July 26, 2000

John A. Espinoza Project Manager Turner Collie & Braden, Inc. 6800 Park Ten Boulevard Suite 180 South San Antonio, Texas 78213

Re: Visual Structural Observation of bridges along the Raymondville Drain Channel.

Dear Mr. Espinoza

In accordance with your request and authorization we are providing you the following preliminary report on our findings for the above-mentioned project.

#### PURPOSE, SCOPE AND METHODOLOGY

The North Main Drain Channel carries storm water from metropolitan areas in the Rio Grande Valley, starting west of McAllen, to the Gulf of Mexico. A new route has been proposed for the areas west of McAllen to flow into the Raymondville Drain Channel (RDC) instead of the North Main Drain Channel. Because of the added volume of storm water that will be carried by the RDC, a check of the existing capacity of the channel, and structures along it, is needed.

Hinojosa Engineering, Inc. was asked by Turner Collie & Braden, Inc. to perform a preliminary visual structural observation on the existing bridges along the RDC. Observations are of the exterior of the structure, both above and below the driving surface and are limited to components of the bridge that are readily visible without removing items causing visual obstruction. This structural observation is a preliminary report of first impression conclusions and/or recommendations only.

Hinojosa Engineering, Inc. performed the observations on June 15 and June 19, 2000. The process consisted of driving along the RDC and inspecting the structure at every major highway, farm road and county road.

Hinojosa Engineering, Inc.

#### **OBSERVATIONS**

The following information was gathered for each bridge - location, size, structure type and condition. A map showing the location of each bridge is shown in Appendix X.

• FM 493 – 40' x 100', pre-cast flat slab, good condition



Figure 1: Bridge at FM 493

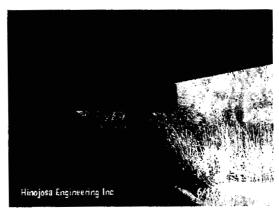


Figure 2: Beam-column connection



Figure 3: Flat Slab

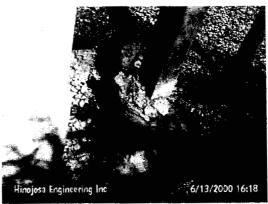


Figure 4: Erosion at guardrail

• Co Rd #5 - 25' x 60', pre-cast double t-beams, good condition

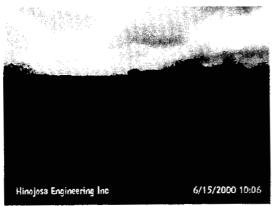


Figure 5: Bridge at Co Rd #5

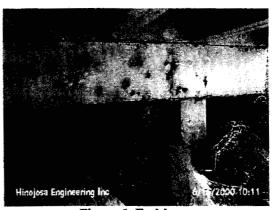


Figure 6: End-beam

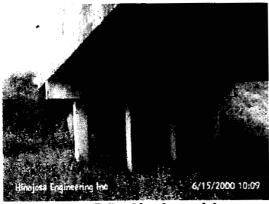


Figure 7: Double t-beam slab

• Co Rd # 10 – 25' x 60', pre-cast double t-beams, shear cracks at beam supports (see Figures 10-11)

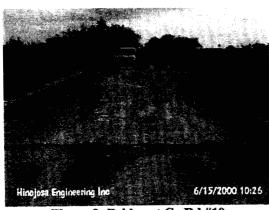


Figure 8: Bridge at Co Rd #10

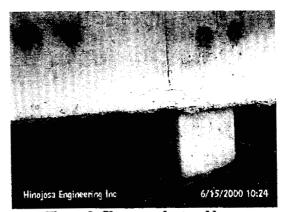


Figure 9: Shear crack at end beam



Figure 10: Double t-beam slab

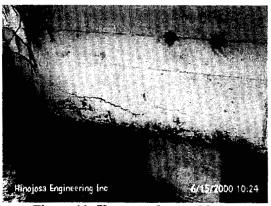


Figure 11: Shear crack at end beam

• Co Rd #15 – 25' x 60', pre-cast double t-beams, shear cracks at beam supports (see Figure 15)

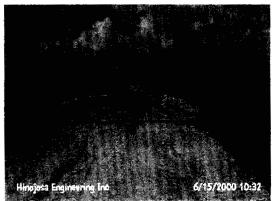


Figure 12: Bridge at Co Rd #15

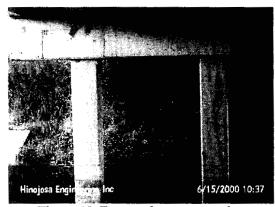


Figure 13: Beam-column connection



Figure 14: Double t-beam slab



Figure 15: Shear crack at end beam

• Co Rd #25 – 25' x 60', pre-cast double t-beams, good condition

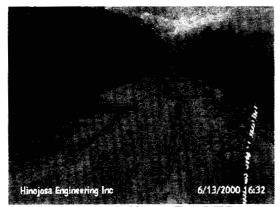


Figure 16: Bridge at Co Rd #25

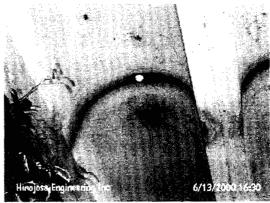


Figure 17: Weephole in slab



Figure 18: Beam-column connection



Figure 19: Double t-beam slab

• Co Rd #30, 1 – 25' x 60', pre-cast double t-beams, good condition



Figure 20: Bridge at Co Rd #30

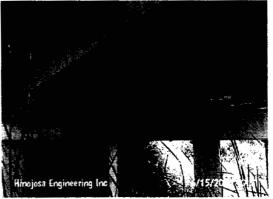


Figure 21: Double t-beam slab

 Co Rd #30, 2 – 25' x 60', pre-cast double t-beams, concrete deteriorating in some areas (see Figures 24-25)



Figure 22: Bridge at Co Rd #30

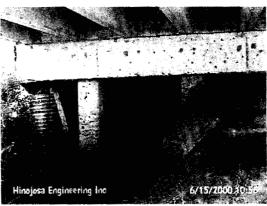


Figure 23: End beam

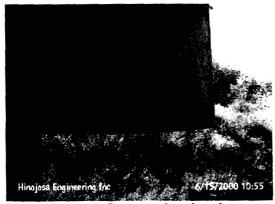


Figure 24: Concrete deteriorating

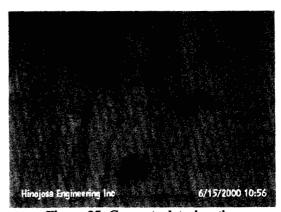


Figure 25: Concrete deteriorating

• FM 88 - 50' x 75', pre-cast flat slab, good condition



Figure 26: Bridge at FM 88

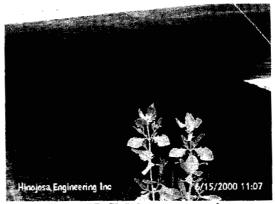


Figure 27: Slab-beam connection

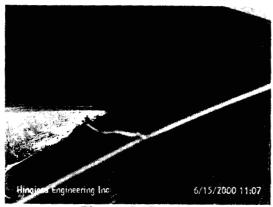


Figure 28: Flat slab

• Co Rd #40 - 25' x 60', pre-cast double t-beams, good condition



Figure 29: Bridge at Co Rd #40



Figure 30: Double t-beam slab

• Co Rd #60 – 25' x 60', pre-cast double t-beams, cracks on center beam (see Figure 32)

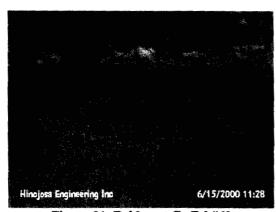


Figure 31: Bridge at Co Rd #60



Figure 32: Double t-beam slab



Figure 33: Crack on center beam

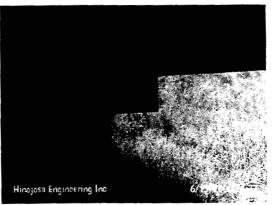


Figure 34: Beam-column connection

• Cemetery Rd – 25' x 60', pre-cast double t-beams, good condition

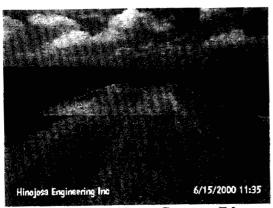


Figure 35: Bridge at Cemetery Rd

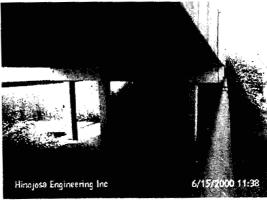


Figure 36: Double t-beam slab



Figure 37: End beam and retaining wall

• FM 1015 – 40' x 65', pre-cast flat slab, good condition



Figure 38: Bridge at FM 1015



Figure 39: Flat slab

• FM 186 – 50' x 112', pre-cast flat slab, good condition



Figure 40: Bridge at FM 186



Figure 41: Flat slab

• Co Rd #105 – 25' x 95', pre-cast double t-beams, good condition



Figure 42: Bridge at Co Rd #105

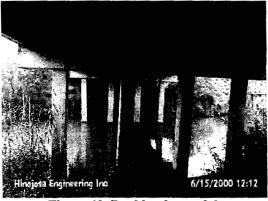


Figure 43: Double t-beam slab



Figure 44: Beam-column connection

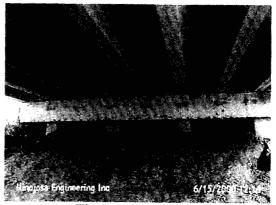


Figure 45: End beam

• Co Rd #121 – 25' x 40', pre-cast t-beams, end beams eroded (see Figure 50), cross-beams cracked (see Figures 48-49, 51-53), slab cracked (see Figure 47), steel reinforcement exposed (see Figure 49)



Figure 46: Bridge at Co Rd #121



Figure 47: Shear crack on beam

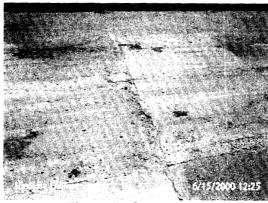


Figure 48: Cracked slab



Figure 49: Eroded End Beam

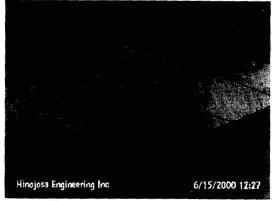


Figure 50: Shear crack at beam



Figure 51: Shear crack at beam

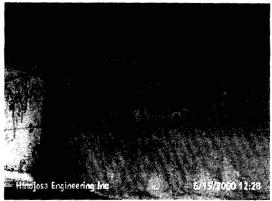


Figure 52: Flexural crack at beam

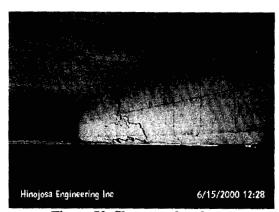


Figure 53: Shear crack at beam

• FM 1761 – 25' x 55', pre-cast flat slab, some cracks



Figure 54: Bridge at FM 1761

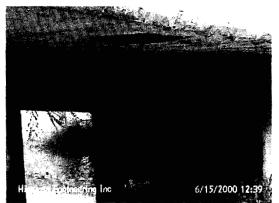


Figure 55: Flat slab

• Co Rd #156 – 25' x 90', pre-cast double t-beams, good condition



Figure 56: Bridge at Co Rd #156



Figure 57: Double t-beam slab

• Co Rd #180 – 25' x 90', pre-cast double t-beams, good condition



Figure 58: Bridge at Co Rd #180



Figure 59: End Beam

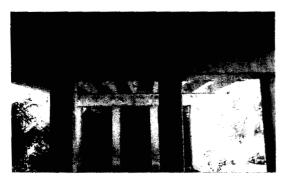


Figure 60: Beam-column connection

• Co Rd #200 – 25' x 90', pre-cast double t-beams, good condition



Figure 61: Bridge at Co Rd #200



Figure 62: Double t-beam slab

• Co Rd #202 – 25' x 90', pre-cast double t-beams, good condition



Figure 63: Bridge at Co Rd #202



Figure 64: Double t-beam slab

• FM 1761 – 15' x 90', pre-cast double t-beams, good condition

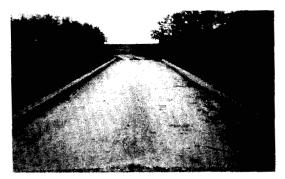


Figure 65: Bridge at FM 1761

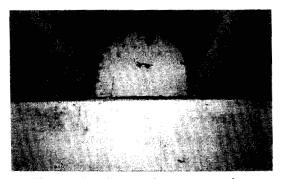


Figure 66: T-beam - beam connection



Figure 67: Double t-beam slab

BUSS 77 RR – 10' x 105', pre-cast t-beams, good condition



Figure 68: Bridge at Buss 77 RR

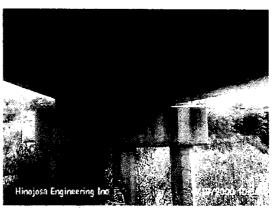
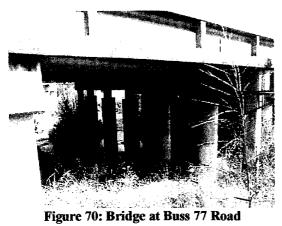


Figure 69: T-beam slab

BUSS 77 ROAD - 40' x 105', flat slab, some columns have cracks and are tilted (see Figures 71-73)



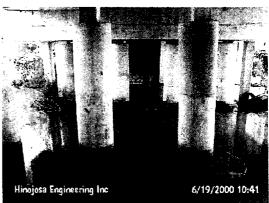


Figure 71: Tilted column

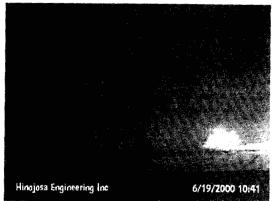


Figure 72: Flat slab

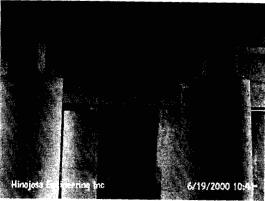


Figure 73: Tilted column

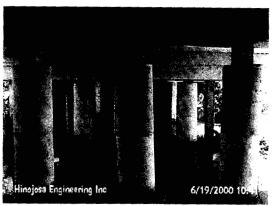


Figure 74: Tilted column

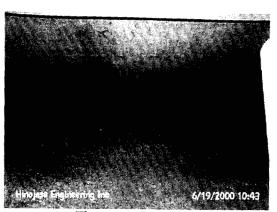


Figure 75: End Beam

• 77 SOUTH – 40' x 95', pre-cast flat slab, good condition



Figure 76: Bridge at 77 South

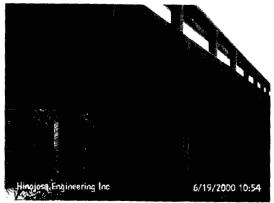


Figure 77: Flat Slab

• 77 NORTH – 40' x 95', pre-cast flat slab, good condition



Figure 78: Bridge at 77 North



Figure 79: Flat slab

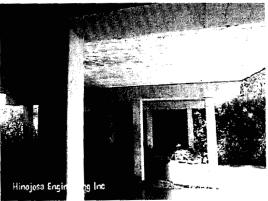


Figure 80: Beam-column connection

• Co Rd #300 - 25' x 120', pre-cast double t-beams, good condition

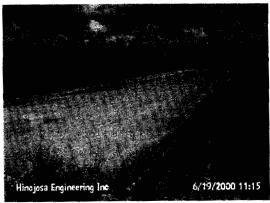


Figure 81: Bridge at Co Rd #300



Figure 82: Double t-beam slab

• Co Rd #315 – 25' x 120', pre-cast double t-beams, good condition

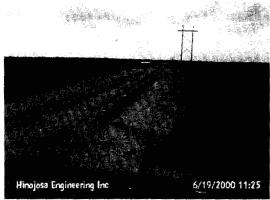


Figure 83: Bridge at Co Rd #315

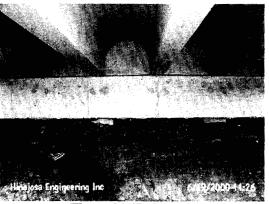


Figure 84: End Beam

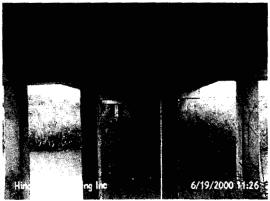


Figure 85: Double t-beam slab



Figure 86: Double t-beam slab

• Co Rd #330 - 25' x 120', pre-cast double t-beams, good condition

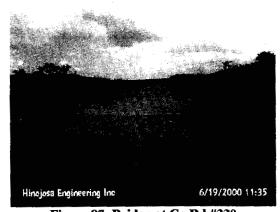


Figure 87: Bridge at Co Rd #330

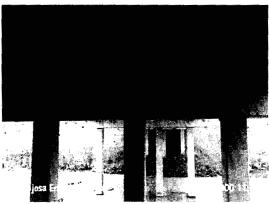


Figure 88: Beam-column connection

• Co Rd #345 – 25' x 120', pre-cast double t-beams, good condition

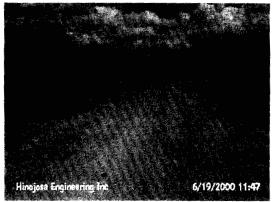


Figure 89: Bridge at Co Rd #345

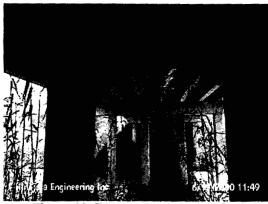


Figure 90: Beam-column connection

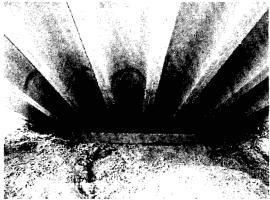


Figure 91: Double t-beam slab

• Co Rd #360 – 25' x 120', pre-cast double t-beams, good condition

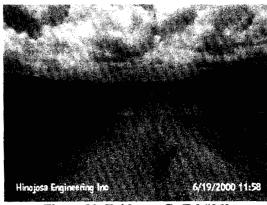


Figure 92: Bridge at Co Rd #360



Figure 93: Beam-column connection

• Co Rd #380 – 25' x 90', pre-cast double t-beams, good condition



Figure 94: Bridge at Co Rd #380

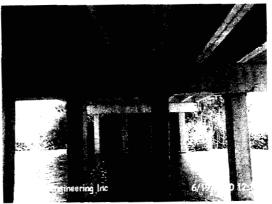


Figure 95: Double t-beam slab

• Co Rd #398 - 25' x 90', pre-cast double t-beams, good condition

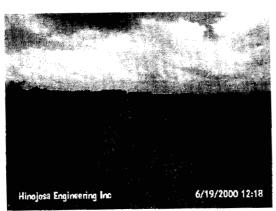


Figure 96: Bridge at Co Rd #398

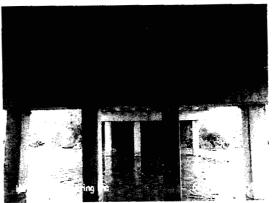


Figure 97: Double t-beam slab

• Co Rd #415 - 25' x 90', pre-cast double t-beams, good condition

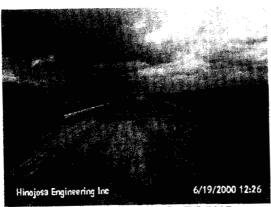


Figure 98: Bridge at Co Rd #415

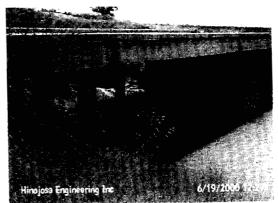


Figure 99: Side view of structure

• FM 2209 - 25' x 100', flat slab, good condition



Figure 100: Bridge at FM 2209



Figure 101: Side view of structure

• Co Rd #445 – 25' x 90', pre-cast double t-beams, good condition

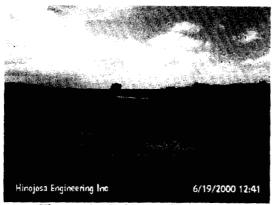


Figure 102: Bridge at Co Rd #445

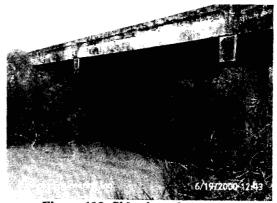


Figure 103: Side view of structure

• FM 186 – 40' x 175', pre-cast flat slab, good condition



Figure 104: Bridge at FM 186

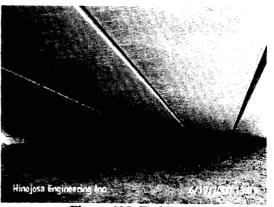
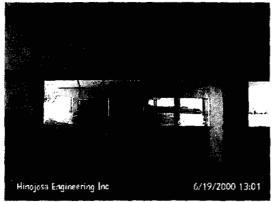


Figure 105: End beam





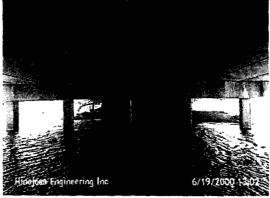


Figure 107: Flat slab

#### **CONCLUSIONS**

Based on our visual structural observations, in our opinion the bridge structures are in good conditions, except for the bridge at County Road #121. The supporting beams at this bridge have failed in flexure, leading to exposed steel reinforcing (see Figure 49), and in shear (see Figures 48, 51-53). The beams at the end of the bridge have eroded (see Figure 50). Structural repairs are foreseen for this bridge structure.

#### LIMITATIONS

This report is the result of a professional, specific, and limited scope assignment. It was prepared with care and within the customs and practices of the industry. The opinions expressed are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on the structure. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the opinions expressed in this report may be invalidated wholly or partially by changes outside our control. Further, this report does not serve as a guarantee, but instead as a memorial of a site observation visit.

The information is meant for use by the addressee and is in no way intended to be used by a third party, which may have different requirements.

It has been a pleasure to have been able to serve you in this matter, should any questions arise please feel free to call our office at (956) 581-0143.

Respectfully Submitted Hinojosa Engineering, Inc.

Ricardo Hinojosa, P.E.

Hinojosa Engineering, Inc.

North Main and Raymondville Drains Photograph Cross Reference Listing

# North Main Draty STATION CALCULATOR HCDD No. 1, Phase 1--Photographs

| Pho      | to Sta | Description                       | Project Sta |         |         |
|----------|--------|-----------------------------------|-------------|---------|---------|
| 1        | 13378  | North Main Drain Ditch            | 0           |         |         |
|          | 13664  | Conc. Weir                        | 286         |         |         |
| 4        | 14733  | 18" Steel Casing Irr. Crossing    | 1355        |         |         |
| 5,6      | 16053  | County Rd., Conc. Bridge 42       | 2675        |         |         |
| 7        | 17165  | 48" Steel Casing of Irr. Crossing | 3787        |         |         |
| 8        |        | County Rd., Conc. Bridge 43       | 5114        | 5285    | 171     |
|          |        | 18" Steel Casing Irr. Crossing    | 6441        |         |         |
|          |        | County Rd., Conc. Brdige 44       | 7775        | 7925    | 150     |
|          |        | 18" Steel Casing Irr. Crossing    | 13105       |         |         |
| 14,15    | 30524  | FM 493, Conc. Bridge 45           | 17146       |         |         |
|          |        | FM 493                            | 17146       |         |         |
|          |        | 12" Steel Casing of Irr. Crossing | 17720       |         |         |
|          |        | 48" Steel Casing of Irr. Crossing | 18486       |         |         |
|          |        | County Rd., Conc. Bridge 46       | 19801       |         |         |
|          |        | County Rd., Conc. Bridge 47       | 20943       |         |         |
| 22       |        | 18" Steel Casing Irr. Crossing    | 22520       |         |         |
|          |        | County Rd., Conc. Bridge 48       | 24533       |         |         |
| 25,26    |        | FM 1423, Conc. Bridge 49          | 25876       | 22279.8 | -3596.2 |
|          | -      | FM 1423                           | 25876       |         |         |
| 21       |        | 24" Steel Casing of Irr. Crossing | 27139       |         |         |
| 28,29    |        | County Rd., Conc. Bridge 50       | 28511       |         |         |
| 30<br>31 |        | 18" Steel Casing Irr. Crossing    | 31430       |         |         |
|          |        | County Rd., Conc. Bridge 51       | 31476       |         |         |
| 32       |        | 18" Steel Casing Irr. Crossing    | 32672       |         |         |
| 33       |        | Dirt Ditch Crossing, Conc. Bridge |             |         |         |
| 34, 35   |        | Brush Line Rd., Conc. Bridge 52   | 32971       |         |         |
| 36,37    | 7317   | Conc. Weir                        | 33193       | 29700   | -3493   |

#### STATION CALCULATOR HCDD No. 1, Phase 2--Photographs

|     | Pho        | to Sta | Description  | Project Sta |       |     |
|-----|------------|--------|--|-------------|-------|-----|
|     | 38         | 11301  | 24" Steel Casing of Irr. Crossing                    | 2784        |       |     |
|     | ٠. ٢       |        | 10" Steel Casing of Gas Line                         | 6577        |       |     |
|     | 39         | 15234  | 24" Steel Casing of Gas Line                         | 6717        |       |     |
|     | L 40       | 15475  | County Rd., Conc. Bridge 53                          | 6958        |       |     |
|     |            |        | County Rd., Conc. Bridge 54                          | 13106       | 12500 | 606 |
|     | r 42,43    | 24102  | Doolittle Rd., Conc. Bridge 55<br>18" Steel Casing   | 15585       | 16000 | 415 |
| 44  | 1          | 24122  | 18" Steel Casing                                     | 15605       |       |     |
|     | L          | 24140  | 18" Steel Casing                                     | 15623       |       |     |
|     | 45         | 26000  | P.I. Of Ditch  | 17483       |       |     |
|     | 46         | 28375  | 24" Steel Casing                                     | 19858       |       |     |
|     |            |        | County Rd., Conc. Bridge 56                          | 20453       | 20900 | 447 |
|     |            |        | County Rd., Conc. Bridge 57                          | 23752       | 24200 | 448 |
|     |            | 34686  | County Rd., Conc. Bridge                             | 26169       |       |     |
| . : | 53         | 36970  | 18" Steel Casing of Irr. Crossing                    | 28453       |       |     |
|     | Γ          | 37914  | 8" Steel Casing to Water Line<br>2-24" Steel Casings | 29397       |       |     |
| 54  | 1          | 37924  | 2-24" Steel Casings                                  | 29407       |       |     |
|     | L 55       | 37965  | N.Bound 281, Conc. Bridge 58                         | 29448       |       |     |
|     | · F 56     |        | S.Bound 281, Conc. Bridge 59                         | 29609       |       |     |
| 5   | 7          | 0      | S.Bound 281<br>10" Steel Casing                      | 29609       | 29950 | 341 |
|     | <b>-</b> + | 185    | 10" Steel Casing                                     | 29794       |       |     |
|     | Ĺ          |        | 10" Steel Casing                                     | 29814       |       |     |
|     | 58         | 1203   | 24" Steel Casing                                     | 30812       |       |     |
|     | 59,60      | 6362   | Seminary Rd., Conc. Bridge 60                        | 35971       | 36200 | 229 |

#### Station Calculator HCDD No. 1-- Phase 3 Photgraphs

| Photo S       | tation              | Description  | Project Station |
|---------------|---------------------|--|-----------------|
| 61            | 7864                | 18" Steel Casing of Irr. Crossing                    | 37723           |
| 62,63         | 9974                | Caliche Rd., 10'X10' Conc Box 61                     | 40183           |
| 64,65         | 10791               | Concrete Weir  | 41000           |
| 66            | 14553               | 24" Steel Casing                                     | 44762           |
| 67            | 19496               | 24" Steel Casing of Irr. Crossing                    | 49705           |
| 68            | 23429               | 24" Steel Casing of Irr. Crossing                    | 53638           |
| <b></b>       | - 25808             | FM 1925, Conc. Bridge 62                             | 55990           |
| 67,70         | - 0                 | FM 1925, Conc. Bridge 62                             | 55990           |
| 71            | 1350                | 24" Steel Casing of Irr. Crossing                    | 57340           |
| 72,73         | 2669                | Rogers Rd., Conc. Birdge 63                          | 58659           |
| 74            | 4000                | 42" Steel Casing to Irr. Crossing                    | 59990           |
| 75,76         | 5315 <b>63/5</b> .7 | Russell Rd., Conc. Bridge                            | 61305           |
| 77            | 6635                | 18" Steel Casing of Irr. Crossing                    | 62625           |
| 78,79         | 7952 -              | Chapin Rd., Conc. Bridge 64                          | 63942           |
| 80            | 9264                | 18" Steel Casing of Irr. Crossing                    | 65254           |
| 81            | 9520                | Concrete Weir  | 65510           |
| 82,83         | 10586               | Schunior St., Conc. Bridge 65                        | 66576           |
| <i>0</i> 2,03 | -13155              | US Hwy. 107, Conc. Bridge 66                         | 69145           |
| 84]           | ( n                 | US Hwy. 107, Conc. Bridge 66                         | 69145           |
| 85            | L 98                | 52" Conc. Pipe to Irr. Crossing                      | 69243           |
| 86            | 1355                | 24" Steel Casing to Irr. Crossing                    | 70550           |
| 87            | r 2750              | Sprague St., Conc. Bridge                            | 71870           |
| 88            | L 2780              | 28" Steel Casing to Irr. Crossing                    | 71900           |
| r             | 5342                | 18" Steel Casing of Irr. Xing w/ 2- 12" Conc Pilings |                 |
| 89 L a        | 3342<br>30 5380     | Freddy Gonzalez St., Conc. Bridge                    | 74512           |
| 91,92         | 8000                | Concrete Flume                                       | 77090           |
| 93. 94        | 9555                | Canton Rd., Conc. Box X-ing w/ Conc. Headwalls       | 78645           |

### Station Calculator HCDD No. 1-- Phase 4 Photgraphs

| Photo Station |       | Description                                     | Project Station |  |
|---------------|-------|---|-----------------|--|
| 95, 96        | 9961  | Concrete Weir                                   | 68380           |  |
| 97            | 10205 | CL of South Main, North Main & McAllen Lat.     | 68620           |  |
| 98            | 10791 | 2-72" Corrigated Pipe Crossing under R.R. Track | 69210           |  |

## STATION CALCULATOR HCDD No. 1, FM 1420 to Laguna Madre--Photographs

|           |           | <b>Adjusted</b> |                          |                 |
|-----------|-----------|-----------------|--------------------------|-----------------|
|           | Photo Sta | Photo Sta       | Description              | Project Sta     |
|           | 0         | -8550           | FM 1420                  | 1458            |
| 99        | 8208      | -342            | Beg Curve in Channel     | 9666            |
| 100       | 8520      | -30             | End Curve in Channel     | 9978            |
| 101,      | 102 8550  | 0               | Concrete Weir            | 10008 Plan Sta. |
| 103,10    |           | 598             | Conc. Bridge             | 10606           |
| 105,10    |           | 10392           | Gas Pipeline Bridge      | 20400           |
| 107,10    | 8 21917   | 13367           | Main Ranch Road Bridge   | 23375           |
| 109       | 22434     | 13884           | 48" Conc. Pipe (channel) | 23892           |
| 110,111   | 31636     | 23086           | Conc. Bridge             | 33094           |
| 112       | 31636     | 23086           | Channel (Machinery)      | 33094           |
| 113       | 31636     | 23086           | Channel (Machinery)      | 33094           |
| 114,115   | 38737     | 30187           | PI of Channel            | 40195           |
| 116 , 117 |           | 36536           | PI of Channel            | 46544           |
| 118, 11   | 47467     | 38917           | Conc. Bridge             | 48925           |
| 120-12    |           | 41998           | Outfall weir             | 52006           |

#### STATION CALCULATOR HCDD No. 1, US 77 to FM 1420--Photographs

| Photo Sta                               | Description                      | Project Sta |
|---|----------------------------------|-------------|
| 124 0                                   | U.S. Business 77                 | 74520       |
|   | US Expressway 77, S bound        | 72630       |
|   | US Expressway 77, N bound        | 72430       |
|   | US Expressway 77                 | 72430       |
|   | County Rd, Conc Bridge 16        | 71376       |
|   | County Rd, Conc Bridge 15        | 61805       |
|   | Control weir                     | 61114       |
|   | County Rd, Conc. Bridge 14       | 56131       |
| - 01570                                 | FM 2099, Conc. Bridge 13         | 50851       |
| 1.16                                    | FM 2099,                         | 50851       |
|   | County Rd, Conc. Bridge 1/3 /2   | 45678       |
|   | County Rd, Conc. Bridge 11       |             |
|   | Conc. Weir                       | 41007       |
|   |                                  | 39685       |
| 104 143 I                               | FM 507, Conc Bridge 10<br>FM 507 | 35793       |
|   | = = .                            | 35793       |
|   | County Rd, Conc Bridge 9         | 30516       |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Downstream Drain Channel         | 25793       |
| 150 , 15   1/3/6                        | County Rd, Conc. Bridge 8        | 18417       |
| 17-1172                                 | FM 498, Conc. Bridge 7           | 14185       |
|   | FM 498                           | 14185       |
|   | County Rd, Conc. Bridge 6        | 6207        |
| • •                                     | Gate Control WCDD No. 1          | 6063        |
| · · · · · · · · · · · · · · · · · · ·   | Control weir                     | 5640        |
| 159,160 13715                           | FM 1420, Conc. Bridge 5          | 470         |

## STATION CALCULATOR HCDD No. 1, Panchita to HWY 77 RR Xing

|            |       |                                 | Calculated  | Selected    |
|------------|-------|---------------------------------|-------------|-------------|
| Photo      | Sta   | Description                     | Project Sta | Project Sta |
|            | 0     | FM 1015                         |             |             |
| 161,162 1  | 2300  | Panchita Control Gate Structure | 61880       | 61929       |
|            | 8328  | PI Channel DS Panchita          | 55852       |             |
|            | 21914 | County Road, Bridge 30          | 52266       |             |
|            | 26855 | County Road, Bridge 29          | 47325       |             |
| ? سم *     | 32180 | FM 2629, Bridge 28              | 42000       |             |
| 169, 170 L | 0     | FM 2629                         | 42000       |             |
| 171, 172   | 4056  | County Road, Bridge 27          | 37944       | 37707       |
| 173, 174   | 10854 | County Road, Bridge 26          | 31146       | 31227       |
|            | 14581 | Channel section DS Bridge 26    | 27419       |             |
|            | 15601 | Concrete Weir                   | 26399       | 26500       |
| ٠ سو       | 16580 | FM 1425, Bridge 25              | 25420       | 25500       |
| 178,179 L  | 0     | FM 1425                         | 25420       |             |
| 180,181    | 4428  | County Road, Bridge 24          | 20992       | 21107       |
| 182, 183   | 8363  | County Road, Bridge 23          | 17057       | 17152       |
| 184 185 [  | 10398 | FM 2845, Bridge 22              | 15022       |             |
| •          | 0     | FM 2845                         | 15022       |             |
| 186,187    | 5282  | County Road, Bridge 21          | 9740        | 9876        |
| 188, 189   | 10363 | County Road, Bridge 20          | 4659        | 4597        |
| 190, 191   | 13059 | County Road, Bridge 19          | 1963        | 1957        |
|            | 14965 | Railroad Bridge adjacent to 77  | 57          | 0           |

## Raymonduille Orain

## UNIT No. D-1

| 011+00.0 | 361 Bridge at Expressway 77 West Bound Lane   | West |
|----------|---|------|
| 011+00.0 | 362 Bridge at Expressway 77 West Bound Lane   | East |
| 014+00.0 | 363 Bridge at Expressway 77 East Bound Lane   | West |
| 014+00.0 | 364 Bridge at Expressway 77 East Bound Lane   | East |
| 028+48.0 | 365 Bridge No. 15 (23' Roadway X 121.33Lg.)   | West |
| 028+48.0 | 366 Bridge No. 15 (23' Roadway X 121.33Lg.)   | East |
| 083+82.0 | 367 Bridge No. 14 (23' Roadway X 121.33Lg.)   | West |
| 083+82.0 | 368 Bridge No. 14 (23' Roadway X 121.33Lg.)   | East |
| 136+82.0 | 369 Bridge No. 13 (23' Roadway X 121.33Lg.)   | West |
| 136+82.0 | 370 Bridge No. 13 (23' Roadway X 121,33Lg.)   | East |
| 190+68.0 | 371 Bridge No. 12 (23' Roadway X 121.33Lg.)   | West |
| 190+68.0 | 372 Bridge No. 12 (23' Roadway X 121.33Lg.)   | East |
| 243+56.0 | 373 Bridge No. 11 (23' Roadway X 121,33Lg.)   | West |
| 243+56.0 | 374 Bridge No. 11 (23' Roadway X 121.33Lg.)   | East |
| 296+40.0 | 375 Bridge No. 10 (23' Roadway X 121.33Lg.)   | West |
| 296+40.0 | 376 Bridge No. 10 (23' Roadway X 121.33Lg.)   | East |
| 349+20.0 | 377 Bridge No. 9 (23' Roadway X 91Lg.)        | West |
| 349+20.0 | 378 Bridge No. 9 (23' Roadway X 91Lg.)        | East |
| 427+00.0 | 379 Bridge No. 8 (23' Roadway X 91Lg.)        | West |
| 427+00.0 | 380 Bridge No. 8 (23' Roadway X 91Lg.)        | East |
| 480+12.0 | 381 Bridge Lengthened by the State Hwy. Dept. | West |
| 480+12.0 | 382 Bridge Lengthened by the State Hwy. Dept. | East |
| 524+50.0 | 383 Bridge No. 7 (23' Roadway X 91Lg.)        | West |
| 524+50.0 | 384 Bridge No. 7 (23' Roadway X 91Lg.)        | East |

## Raymonduille Orain

## UNIT No. D-1

| 011+00.0 | 361 Bridge at Expressway 77 West Bound Lane   | West |
|----------|---|------|
| 011+00.0 | 362 Bridge at Expressway 77 West Bound Lane   | East |
| 014+00.0 | 363 Bridge at Expressway 77 East Bound Lane   | West |
| 014+00.0 | 364 Bridge at Expressway 77 East Bound Lane   | East |
| 028+48.0 | 365 Bridge No. 15 (23' Roadway X 121.33Lg.)   | West |
| 028+48.0 | 366 Bridge No. 15 (23' Roadway X 121.33Lg.)   | East |
| 083+82.0 | 367 Bridge No. 14 (23' Roadway X 121.33Lg.)   | West |
| 083+82.0 | 368 Bridge No. 14 (23' Roadway X 121.33Lg.)   | East |
| 136+82.0 | 369 Bridge No. 13 (23' Roadway X 121.33Lg.)   | West |
| 136+82.0 | 370 Bridge No. 13 (23' Roadway X 121.33Lg.)   | East |
| 190+68.0 | 371 Bridge No. 12 (23' Roadway X 121.33Lg.)   | West |
| 190+68.0 | 372 Bridge No. 12 (23' Roadway X 121.33Lg.)   | East |
| 243+56.0 | 373 Bridge No. 11 (23' Roadway X 121.33Lg.)   | West |
| 243+56.0 | 374 Bridge No. 11 (23' Roadway X 121.33Lg.)   | East |
| 296+40.0 | 375 Bridge No. 10 (23' Roadway X 121.33Lg.)   | West |
| 296+40.0 | 376 Bridge No. 10 (23' Roadway X 121.33Lg.)   | East |
| 349+20.0 | 377 Bridge No. 9 (23' Roadway X 91Lg.)        | West |
| 349+20.0 | 378 Bridge No. 9 (23' Roadway X 91Lg.)        | East |
| 427+00.0 | 379 Bridge No. 8 (23' Roadway X 91Lg.)        | West |
| 427+00.0 | 380 Bridge No. 8 (23' Roadway X 91Lg.)        | East |
| 480+12.0 | 381 Bridge Lengthened by the State Hwy. Dept. | West |
| 480+12.0 | 382 Bridge Lengthened by the State Hwy. Dept. | East |
| 524+50.0 | 383 Bridge No. 7 (23' Roadway X 91Lg.)        | West |
| 524+50.0 | 384 Bridge No. 7 (23' Roadway X 91Lg.)        | East |

#### UNIT No. D-2

| Station  | Clip | Description   | Viewed    |
|----------|------|---|-----------|
| 508+75.0 | ,    | 330 Bridge at Highway 186.                                  | South     |
| 508+75.0 | 1    | 331 Bridge at Highway 186.                                  | North     |
| 506+90.0 | )    | 332 Rain Control Structure To Salt Lake                     | Southeast |
| 506+90.0 | }    | 333 Rain Control Structure To Salt Lake                     | Northwest |
| 500+00.0 | )    | 334 36"X1/4"X125' Steel Pipe                                | Southeast |
| 451+89.0 | )    | 335 14' Roadway X 91' Lg. Bridge                            | South     |
| 451+89.0 | ) -  | 336 14' Roadway X 91' Lg. Bridge                            | North     |
| 410+50.0 | )    | 337 23' Roadway X 91' Lg. Bridge                            | South     |
| 410+50.0 | )    | 338 23' Roadway X 91' Lg. Bridge                            | North     |
| 420+00.0 | )    | 339 Rain Control Structure To North Hargill Drain           | West      |
| 420+00.0 | )    | • · • · · · · · · · · · · · · · · · · ·                     | East      |
| 338+00.0 | 3    |   | South     |
| 338+00.0 | )    | 012 20 (todamy) / 1 1 - g mg -                              | North     |
| 288+49.0 | )    |   | West      |
| 288+49.0 | )    | 344 Bridge at County Rd. where State Hwy. 1761 turns South. |           |
| 236+70.0 | 0    | 345 14' Roadway X 91' Lg. Bridge at Farm Rd                 | South     |
| 236+70.0 | 0    | ⁻346 14' Roadway X 91' Lg. Bridge at Farm Rd                | North     |
| 204+41.  | 1    | 347 23' Roadway X 91' Lg. Bridge                            | West      |
| 204+41.  | 1    | 348 23' Roadway X 91' Lg. Bridge                            | East      |
| 152+49.  | 0    | 349 23' Roadway X 91' Lg. Bridge                            | West      |
| 152+49.  | 0    | 350 23' Roadway X 91' Lg. Bridge                            | East      |
| 082+42.  | 5    | 351 23' Roadway X 91' Lg. Bridge                            | West      |
| 082+42.  |      | 352 23' Roadway X 91' Lg. Bridge                            | East      |
| 056+02.  | 5    | 353 23' Roadway X 91' Lg. Bridge                            | West      |
| 056+02.  | 5    | 354 23' Roadway X 91' Lg. Bridge                            | East      |
| 031+38.  | 0    | 355 14' Roadway X 91' Lg. Bridge                            | West      |
| 031+38.  | 0    | 356 14' Roadway X 91' Lg. Bridge                            | East      |
| 000+95.  |      | 357 Rail Road Bridge  | West      |
| 000+95.  |      | 358 Rail Road Bridge  | East      |
| 000+00.  |      | 359 Bridge at U.S. Hwy. 77                                  | West      |
| 000+00.  | .0   | 360 Bridge at U.S. Hwy. 77                                  | East      |

#### UNIT No. D-3

#### Lateral 5

| Station  | Clip | Description                                  | Viewed    |
|----------|------|--|-----------|
| 145+86.9 |      | 290 36" X 12' Conc. Pipe Inlet               | Southwest |
| 145+86.9 |      | 291 36" X 12' Conc. Pipe Inlet               | Northeast |
| 145+30.9 |      | 292 30" R.C. Flex J.T. Pipe X 56'            | Southwest |
| 145+30.9 |      | 293 30" R.C. Flex J.T. Pipe X 56'            | Northeast |
| 141+54.0 |      | 294 30" R.C. Flex J.T. Pipe X 80'            | Southwest |
| 141+54.0 |      | 295 30" R.C. Flex J.T. Pipe X 80'            | Northeast |
| 033+65.4 |      | 296 7' X 7' X 96' Prefabricated Concrete Box | Southeast |
| 033+65.4 |      | 297 7' X 7' X 96' Prefabricated Concrete Box | Northwest |
| 003+86.0 |      | 298 7' X 7' X 84' Prefabricated Concrete Box | Southwest |
| 003+86.0 |      | 299 7' X 7' X 84' Prefabricated Concrete Box | Northeast |

#### West Hargill Drain

| 04-11    | <b>0</b> 11- |     | Book 4.10               |        |
|----------|--------------|-----|-------------------------|--------|
|          | Clip         | -   | Description             | Viewed |
| 506+40.0 |              |     | Bridge at Mile 10W.     | East   |
| 506+40.0 |              |     | Bridge at Mile 10W.     | West   |
| 535+79.9 |              |     | Bridge at Mile 10-1/2W. | East   |
| 535+79.9 |              |     | Bridge at Mile 10-1/2W. | West   |
| 442+80.6 |              |     | Bridge at Mile 9-W.     | East   |
| 442+80.6 |              |     | Bridge at Mile 9-W.     | West   |
| 474+20.8 |              |     | Bridge at Mile 9-1/2W.  | East   |
| 474+20.8 |              |     | Bridge at Mile 9-1/2W.  | West   |
| 345+86.0 |              |     | Bridge at Mile 7-1/2W.  | West   |
| 345+86.0 |              |     | Bridge at Mile 7-1/2W.  | East   |
| 316+59.0 |              |     | Bridge at Mile 7W.      | East   |
| 316+59.0 |              |     | Bridge at Mile 7W.      | West   |
| 295+40,6 |              |     | Bridge at Mile 11-1/2N. | North  |
| 295+40.6 |              |     | Bridge at Mile 11-1/2N. | South  |
| 236+29.5 |              |     | Bridge at Mile 6W.      | West   |
| 236+29.5 |              |     | Bridge at Mile 6W.      | East   |
| 207+67.5 |              |     | Bridge at Mile 5-1/2W.  | West   |
| 207+67.5 |              |     | Bridge at Mile 5-1/2W.  | East   |
| 207+00.0 |              |     | Bridge at Mile 11-1/2N. | South  |
| 207+00.0 |              |     | Bridge at Mile 11-1/2N. | North  |
| 180+84.7 |              |     | Bridge at Highway 88.   | West   |
| 180+84.7 |              |     | Bridge at Highway 88.   | East   |
| 154+44.7 |              |     | Bridge at Mile 4-1/2W.  | West   |
| 154+44.7 |              |     | Bridge at Mile 4-1/2W.  | East   |
| 086+99.1 |              |     | Not Shown               |        |
| 086+99.1 |              |     | Bridge at Mile 3-1/2W.  | East   |
| 060+23.7 |              |     | Bridge at Mile 3W.      | West   |
| 060+23.7 |              | 327 |                         | East   |
| 028+74.7 |              |     | Bridge at Mile 2-1/2W.  | West   |
| 028+74.7 | ,            | 329 | Bridge at Mile 2-1/2W.  | East   |

#### **HEC-1 MODEL**

## REVISED EXISTING CONDITIONS NORTH MAIN

25-YEAR MODEL

cLOOD HYDROGRAPH PACKAGE (HEC-1)

MAY 1991

VERSION 4.0.1E

Lahey F77L-EM/32 version 5.01

Dodson & Associates, Inc.

RUN DATE 05/08/01 TIME 10:09:30

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

\*\*\*\*\*\*\*\*

| Х       | Х | XXXXXXX | XXXXX |   |       | Х   |
|---------|---|---------|-------|---|-------|-----|
| Х       | X | X       | Х     | X |       | XX  |
| Х       | Х | Х       | Х     |   |       | X   |
| XXXXXXX |   | XXXX    | X     |   | XXXXX | X   |
| X       | Х | X       | Х     |   |       | X   |
| Х       | Х | X       | X     | Х |       | X   |
| X       | X | XXXXXXX | XXXXX |   |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
             ID.....1....2....3....4....5....6.....7....8.....9....10
                  Hidalgo County Flood Insurance Study
                  Job No. 11-00389-002
                  File Name: NM25re.DAT
                                          Revised Existing Conditions
                   25-year Rain-fall
             * HEC-1 model for the North-West main drain area
               Model sequence is as follows:
               **********
               revised rainfall from USGS report 98-4044
               REVISED CN TYPE I ANTECEDANT
               REVISED LAG BASED ON REVISED CN I
               IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
             * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
             ID
                  West Main drain area
  2
                    25-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
             ID
                                       300
             ΙT
                    60 1JAN01
                                  0
  4
             10
                     5
             * Start calculating hydrograph for the sub water sheds
             SC~7A SUBWATER SHED
  5
             KK
                  Compute hydrograph for sub-water shed SC-7A
  6
             KM
             BA
  7
                   18.4
                                                       4.29
                                                               4.65
                                                                      5.45
                                                                              6.22
                                                                                     6.62
                                                3.61
  8
             PH
                  5.721
                            60
             LS
  10
             UD
                  53.5
  11
             KK
                    18
  12
                  Route hydrograph from head water to node 1 using Muskingum-Cunge Method
             KM
  13
             RD
                                  0.08
                                        19200 0.0002
                                                         217
             RC
                   0.08
                          0.03
  14
                                  2917
                                        2994
                                                3005
                                                        3061
                                                               4500
                                                                      5000
              RX
                   1000
                          2500
  15
                  203.5
                         202.0
                               204.4 191.53 191.53
                                                       204.5
                                                              199.9
                                                                    199.0
  16
              RY
  17
             KK
                  SC-7B SUBWATER SHED
  18
                  Compute hydrograph for sub-water shed SC-7B
  19
  20
                  5.282
  21
              UD
                   20.1
```

1

ID.....1....2....3....4....5....6.....7....8....9....10 LINE 22 KK Combine hydrograph from SC-7A and SC-7B, at node 123 KM 2 24 HC 25 2R KK Route hydrograph from node 1 to node 2 26 KM 27 RD 0.08 32000 0.0002 28 RC 0.08 0.03 2500 2977 2994 3005 3032 4500 5000 1000 ХЯ 29 175 173 172 160.91 160.91 173.0 175.0 30 RY 31 SC-7C SUBWATER SHED KK 32 Compute hydrograph for sub-water shed SC-7C KM 33 ВΑ 34 5.028 60 35 UD 27.4 \* \*\*\*\*\*\*\*\* 36 ΚK SC-6A Compute hydrograph for sub-water shed SC-6A 37 KΜ 38 ΒA 41.66 4.484 60 39 LS 50.5 40 UD 41 KK Combine hydrograph at node 2 KM 42 43 НC 44 KK Route hydrograph from node 2 to node 345 КМ 46 RD 0.03 20800 0.0005 47 0.08 0.08 106 1000 1874.9 1960.8 1966.1 1992.5 2010.8 2037.1 3000 48 RX 98 100 98 88 99.4 88 100 97 \*\*\*\*\*\* 49 50 SC-6B KK Compute hydrograph for sub-water shed SC-6B 51 KM 52 BΑ 6.58 1.765 60 53 LS 22.6 54 UD 55 KK Compute hydrograph for sub-water shed SC-7D 56 KM 4.829 60 UD 25.6

.

PAGE 2

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ID.....1.....2.....3.....4.....5......6......7.....8.....9.....10
LINE
 60
              KK
                     3R
                   Route hydrograph from of SC-7D to node 3
              KM
  61
  62
              RD
                           0.03
                                   0.08
                                           8000 0.0001
                                                           106
  63
              RC
                                                2007 2017.3
                                                                         3000
                    1000 1967.5 1977.9 1985.8
                                                                  2081
  64
              RY 97.2 98 90
  65
                                            84
                                                    84
                                                           90
                                                                  98
                                                                           97
                     30
  66
              ΚK
                   Combine three hydrograph at node 3
  67
              KM
                  3
********
  68
              HC
  69
                      4R
              KK
                   Route hydrograph from node 3 to node 4
  70
              KM
  71
              RS
                           STOR -1
                                           779
                       D
                            114
                                    489
                                                   1639
                                                          2929
                       0
                            680
                                   1360
                                           1700
                                                   2715
                                                          4240
              * 0.08 0.03 0.08 14400 0.0006
* 1000 1818.2 1830.9 1843.6 1867
* 89 90 84 78 78
                                                         103
                                               1867 1878.8 1890.6 2855.2
                                                          84
                                                                  90
  74
75
                    SCSA subwater-shed
              KM
                   Compute hydrograph for subwater shed SC-SA
  76
                   38.43
              BA
                  2.575
                             60
              UD 51
  78
              KK 5ACANA
  79
                  CANAL CROSSING
  80
              КМ
                                    135
                                            0
  81
              RS
                            ELEV
                     1
              SS
                  140.67
                            2000
                                    2.8
                                            1.5
  82
  83
                  140.82
                            2000
                                    2.8
                                            1.5
              ST
                            2000
                                    2000
  84
               SW
                    2000
                         141.14 141.28
  85
               SE
                  140.96
                   135
                          537
140
               SV
                                  5484
                                           7582
  86
                                  145
                                            150
  87
               SE
  88
               KK 5AROUT
                   Route hydrograph TO DOWNSTREAM CANAL
  89
               KM
  90
               RD
                             .06
                                     .06
                                          11900
                                                  .0023
                                                            140
                     .06
               RC.
  91
                                           3690
                                                   4560
                                                           5650
                                                                   5885
                                                                          7950
                                    3140
                      0
                            1500
               RX
  92
                Y 140 135 130
                                            125
                                                  122.5
                                                            125
                                                                   130
                                                                           135
               RY
  93
```

```
LINE
              ID......1.....2......3......4......5......6......7......8......9.....10
  94
                  SC5Al subwater-shed
              KK
  95
              KΜ
                  Compute hydrograph for subwater shed SC-5A1
 96
             BA
                   5.64
  97
              LS
                            60
                  1.889
 98
             UD
                   14.8
 99
              KK
                   5AA1
100
             ΚM
                  Combine two hydrographs
101
              HС
                 2
:********
102
             KK 5A1CAN
103
             KM
                  CANAL CROSSING
104
             RS
                   1
                          ELEV
                                   115
                                            0
105
             SS
                  116.8
                           1900
                                   2.8
                                          1.5
106
                  117.2
                           4050
                                   2.8
                                          1.5
107
             sv
                     0
                          2705
                  115
108
                          120
109
             KK 5A1RT
110
             KM
                  Route hydrograph TO DOWNSTREAM CANAL
111
             RD
112
             RC
                    .06
                            .06
                                   .06
                                         14900
                                                         110
113
             RX
                    0
                          2580
                                  4000
                                         5000
                                                 6000
                                                         9675
                                                               10400
                                                                      10450
                   100
114
             RY
                 100 100 95
                                                         100
                                                               105
                                                                        105
115
                  SC5B subwater-shed
             KK
116
             КМ
                  Compute hydrograph for subwater shed SC-5B
117
             BA
                  9.02
118
             LS
                 2.515
                            60
119
             UD
                   13
120
             KK
                   4C1
                 Combine two hydrographs
121
             KM
122
123
                  SC-4A subwater-shed
124
                  Compute hydrograph for subwater shed SC-4A
125
                  30.73
126
                 2.512
             127
128
             KK 4ACANA
129
                 CANAL CROSSING
             KΜ
130
             RS
                          EFEA
                                   160
                                            0
131
             SS 171.74
                           500
                                  2.8
                                          1.5
132
             ST
                                   2.8
                171.83
                           500
                                          1.5
133
             SW
                   500
                           500
                                   500
                                          500
                                                  500
                                                         500
```

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| LINE | ID       | 1      | 2.          | 3.           | 4.          | 5.       | 6.     | 7    | 8    | 910 |
|------|----------|--------|-------------|--------------|-------------|----------|--------|------|------|-----|
| 134  | CE       | 121 01 | 122         | 170 00       | 150 45      |          |        |      |      |     |
| 135  | SE<br>SV | 171.91 | 172<br>60   | 172.08       | 172.17      | 172.26   | 172.35 |      |      |     |
| 136  | SE SE    | 160    | 165         | 946.5<br>170 | 4419<br>175 |          |        |      |      |     |
| 130  | * :      | ****** | *****       | ****         | 1/5         |          |        |      |      |     |
| 137  | KK       | 4AROUT |             |              |             |          |        |      |      |     |
| 138  | KM       | Route  | hydrogra    | ph TO DO     | WNSTREAM    | CANAL    |        |      |      |     |
| 139  | RD       |        |             |              |             |          |        |      |      |     |
| 140  | RC       | .06    | .06         | .06          | 11300       | .003     | 165    |      |      |     |
| 141  | RX       | 0      | 2500        | 3000         | 3500        | 4000     | 5300   | 6000 | 7650 |     |
| 142  | RY       | 155    | 155         | 150          | 150         | 155      | 155    | 155  | 155  |     |
|      | * 1      | ****** | ******      | ****         |             |          |        |      |      |     |
| 143  | KK       | SC-4A1 | subwater    | -shed        |             |          |        |      |      |     |
| 144  | KM       |        | e hydrog    |              | subwate     | r shed S | C-4A1  |      |      |     |
| 145  | BA       | 7.34   |             | •            |             |          |        |      |      |     |
| 146  | LS       | 2.158  | 60          |              |             |          |        |      |      |     |
| 147  | UD       | 10.85  |             |              |             |          |        |      |      |     |
|      | * *      | ****** | ******      | ****         |             |          |        |      |      |     |
| 148  | кк       | SC4AA1 |             |              |             |          |        |      |      |     |
| 149  | KM       |        | ne two hy   | drograph     | 6           |          |        |      |      |     |
| 150  | HC       | 2      | ic cao ily  | urograpii    | 3           |          |        |      |      |     |
|      |          |        | *****       | ****         |             |          |        |      |      |     |
| 151  | кк       | 4A1CAN |             |              |             |          |        |      | •    |     |
| 152  | KM       | CANAL  | CROSSING    |              |             |          |        |      |      |     |
| 153  | RS       | 1      | ELEV        | 140          | 0           |          |        |      |      |     |
| 154  | SS       | 141    | 4300        | 2.8          | 1.5         |          |        |      |      |     |
| 155  | ST       | 141.11 | 50 <b>0</b> | 2.8          | 1.5         |          |        |      |      |     |
| 156  | SW       | 500    | 500         |              |             |          |        |      |      |     |
| 157  | SE       | 141.33 | 141.55      |              |             |          |        |      |      |     |
| 158  | sv       | 0      | 2475        |              |             |          |        |      |      |     |
| 159  | SE       | 140    | 145         |              |             |          |        |      |      |     |
|      | * *      | ****** | ******      | ****         |             |          |        |      |      |     |
| 160  | кк       | 4A1ROU |             |              |             |          |        |      |      |     |
| 161  | KM       |        | hydrogra    | ph TO DO     | WNSTREAM    | CANAL    |        |      |      |     |
| 162  | RD       |        | ,           |              |             |          |        |      |      |     |
| 163  | RC       | .06    | .06         | .06          | 8000        | .003     | 145    |      |      |     |
| 164  | RX       | 0      | 700         | 1500         | 1800        | 2300     | 2400   | 2425 | 2500 |     |
| 165  | RY       | 130    | 127.5       | 126.5        | 130         | 135      | 135    | 135  | 135  |     |
| _ ,, | * *      | *****  | *****       | ****         | 130         | 100      | 133    | 100  | 133  |     |
| 1.00 |          |        |             |              |             |          |        |      |      |     |
| 166  | KK       |        | subwater    |              |             |          |        |      |      |     |
| 167  | KM       |        | e hydrog    | raph for     | subwate     | r shed S | C-4B   |      |      |     |
| 168  | BA       | 5.44   |             |              |             |          |        |      |      |     |
| 169  | LS       | 3.062  | 60          |              |             |          |        |      |      |     |
| 170  | UD       | 6.6    |             |              |             |          |        |      |      |     |
|      | * *      | *****  | *****       | ****         |             |          |        |      |      |     |

<sup>\*</sup> COMBINE WATERSHEDS SC-4A,4A1,4B

```
ID.....1....2....3.....4.....5.....6.....7.....8.....9....10
LINE
 171
            KK SC4AAB
               Combine two hydrographs
            173
 174
            KK 4BCANA
 175
            KM
                CANAL CROSSING
 176
                        ELEV
                                110
                                       0
            RS
                   1
 177
               113.48
                         500
                                2.8
                                     1.5
            SS
 178
            ST
               113.65
                         500
                                2.8
                              500
                                     500
 179
            SW
                500
                         500
                                             500
                                                   500
               113.82 113.99
                             114.15
                                   114.32 114.49 114.66
 180
            SE
                0 473.8
                             2460
 181
            SV
                  110
                        115
                               120
 182
            SE
            KK 4AABRT
 183
 184
            KM
                Route hydrograph TO DOWNSTREAM CANAL
 185
            RD
                  .06
                         .06
                                .06
                                     10800
                                            .0018
                                                    105
 186
            RC
                                                                 5000
                   0
                        1100
                               2000
                                     2600
                                            3000
                                                    3500
                                                           4000
 187
            RX
            RY 110 105 100 * ***********
                                       98
                                             100
                                                    105
                                                           105
                                                                  105
 188
 189
            KK SC-4B1 subwater-shed
 190
            KM
                Compute hydrograph for subwater shed SC-4B1
                 6.07
 191
            BA
            LS
                2.451
                          60
 192
 193
            UD
             * ***********
 194
            KK
                  SC-4
 195
            KM
                 Combine two hydrographs
             196
 197
                  4C2
             KK
                 Combine three hydrographs at node 4
 198
             KM
                  3
             НÇ
 199
 200
             KK
                   5R
                 Route hydrograph from node 4 to node 5
 201
             KM
                        STOR
                               -1
 202
             RS
                    1
                                838
                                      1406
                                             3840
                    0
                         204
                                                    6496
 203
             sv
             SQ
                    0
                        1110
                               2220
                                      2775
                                             4440
                                                    6940
 204
                0.08
                       0.03
                            0.08
                                   12800 0.0002
                                                   106
             3000
                                                                86.5
```

```
ID.....1.....2.....3.....4.....5.....6.....7.....8......9.....10
LINE
 205
              KK
                   SC-3 SUB-WATER SHED
                  Compute hydrograph for subwater shed SC-3
 206
              ĸм
 207
              BA
                  56.44
 208
              LS
                  2.203
                   62.9
 209
              UD
 210
              ĸĸ
                     5C
                  Combine two hydrographs at node 5
 211
              KM
              HC
 212
 213
              KK
 214
              KM
                   Route hydrograph from node 5 to node 6
                                   -1
2369
 215
              RS
                           STOR
                                                         12983
                                           3646
                                                   8785
              sv
                      0
                            428
 217
              SQ
                      0
                           1315
                                   2630
                                          3290
                                                  5260
                                                          8220
                  0.08 0.03 0.08 7200 0.0002
1000 1891.2 1926.7 1980.9 2018.3
82 82 86 70 70
                                                         103
                                                        2105
                                                             2201.4
                                                          88
 218
                   SC-3A
              КK
                  Compute hydrograph for subwater shed SC-3A
 219
              КМ
 220
              BA
                    5.87
 221
              LS
                   1.917
              UD
 223
              КK
                   SC-3B
                   Compute hydrograph from sub-water shed SC-3B
 224
              КM
 225
              вА
                    6.71
                              60
                   3.075
 226
              LS
 227
              аv
                    34.4
 228
              кĸ
                      6C
                   Combine three hydrographs at node 6
 229
              КM
 230
               HC 3
 231
               ΚK
 232
                   Route hydrograph from node 6 to node 7
                                    -1
166
 233
               RS
                            STOR
                                                   1932
                                                           3564
                                            392
 234
               sv
                       0
                             86
                                                           8400
                                           3360
                                                   5380
                            1345
                                   2690
 235
               SQ
                       0
```

```
LINE
            236
            KK
                 SC-2
237
            KM
                Compute hydrograph for SC-2
238
            PA
                11.48
239
            LS
                5.152
                          60
240
                 56.8
            UD
241
                  7C
            KK
242
            KM
                Combine hydrograph at node 7
243
            HC
                 2
244
            KK
                   8R
                Route hydrograph from node 7 to node 8
245
            KM
                        STOR -1
314 1129
246
                    2
            RS
247
                                      1807
                                             4601
                                                    9248
248
            SQ
                   0
                        1390
                              2780
                                      3475
                                             5560
                0.08 0.03 0.08 26400 0.0003
                1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1
            * 66 66 60
* *******
                                     54
                                            54
                                                    62
249
            КK
                 SC-1
250
            KM
                Compute hydrograph for SC-1
251
            BA
                 7.07
252
            LS
                1.365
                          60
              38.7
********
253
            UD
254
255
                Combine hydrograph at node 8
256
            * Start calculating hydrograph for the sub water sheds
            * that drain to the South Main drain.
257
                SC-8
258
            KM
                Compute hydrograph for subwater shed SC-8
259
            ВΑ
                19.99
260
            LS
                1.861
                          60
261
            UD
               53.5
*********
262
                 1BR
            KK
263
            KM
                Route hydrograph to node 1B
264
            RD
                0.08 0.03
1000 1695.7
265
                               0.08
                                     27200 0.0003
            RC
                                                    115
266
                               1973
                                                        2075.5
                                     2003
                                                                  3000
            RX
                                           2010.5
                                                  2029.5
              ( 103.1 110 1
267
                                100
                                       90
                                             90
                                                          108
            RY
                                                    100
                                                                  107
```

.

```
LINE
               ID......1.....2......3......4......5......6......7.....8......9.....10
268
               KK
                    SM-18
269
               KM
                    Compute hydrograph for sub-water shed SM-18
270
               BA
                    27.11
271
                    4.165
                            61.96
               LS
272
               UD
                     55.8
273
               KK
                    1801
274
               ΚM
                  Combine two hydrographs at node 1B
275
276
               KK
                    SM-17
277
               KM
                    Compute hydrograph for sub-water shed SM-17
278
               BA
                     7.03
279
               LS
                   0.834
                               60
280
               UD
               UD 36.3
281
               KK
                     1BC2
282
               КM
                    Combine two hydrographs at node 1B
283
               НC
284
               КK
285
               ΚM
                    Route hydrograph from node 1B to 2B
 286
               RC 0.08 0.03 0.08 14400 0.0007 103
RX 1000 1335.2 1343 1354.8 1398.6 1411.9 1420.9 2375.6
RY 91 91 88 82 82 88 92 92
               RD
287
288
289
290
               KK
                    SM-16
291
               ΚM
                    Compute hydrograph for SM-16
 292
               ΑB
                    25.18
 293
               LS
                    2,689
                                60
294
               ПD
                    61.6
295
                      2BC
               KK
 296
               KM
                    Combine hydrograph at node 2B
297
               НC
298
               KK
                      3BR
 299
                    Route hydrograph from node 2B to node 3B
               ΚM
 300
 301
                            0.03
                                    0.08 10400 0.0008
                                                               103
                    1000 1760.1 1781.2 1826.3 1883.8 1920.1 1946.7 2799.8 79 84 72 72 84 92 82 82.4
 302
               RX
303
```

|      |  | PAGE |
|------|--|------|
| LINE | ID12345678910  |      |
| 304  | VIV. ON 15 OND UNITED OUR                            |      |
| 305  | KK SM-15 SUB-WATER SHED                              |      |
|      | KM Compute hydrograph for SM-15                      |      |
| 306  | BA 11.1  |      |
| 307  | LS 1.378 60  |      |
| 308  | UD 40.6<br>* *************                           |      |
| 309  | KK 3BC   |      |
| 310  | KM Combine hydrograph at node 3B                     |      |
| 311  | HC 2   |      |
| 011  | * *************                                      |      |
| 312  | KK 4BR   |      |
| 313  | KM Route hydrograph from node 3B to 4B               |      |
| 314  | RD RD  |      |
| 315  | RC 0.08 0.03 0.08 10400 0.0003 103                   |      |
| 316  | DV 1000 1000 1 1000 1 0005 1                         |      |
| 317  | DV 70.7 70.7 70.00                                   |      |
|      | R1 /2./ /6 60 60 74 86 74 75.6                       |      |
| 318  | KK SM-14 SUB-WATER SHED                              |      |
| 319  | KM Compute hydrograph for SM-14                      |      |
| 320  | BA 21.6  |      |
| 321  | LS 1.666 60  |      |
| 322  | UD 69.1  |      |
|      | * ***********  |      |
| 323  | KK 4BC   |      |
| 324  | KM Combine hydrograph at node 4B                     |      |
| 325  | HC 2   |      |
|      | * ***********  |      |
| 326  | KK 8BR   |      |
| 327  | KM Route hydrograph from node 4B to node 9           |      |
| 328  | RD   |      |
| 329  | RC 0.08 0.03 0.08 16000 0.0007 103                   |      |
| 330  | RX 1000 1885.8 1978.6 2036.9 2065.1 2149.5 2205 3000 |      |
| 331  | RY 76 76 54 54 68 82 70 72                           |      |
|      | * ***********  |      |
| 332  | KK SM-13   |      |
| 333  | KM Compute hydrograph for SM-13                      |      |
| 334  | BA 22.25   |      |
| 335  | LS 4.220 60  |      |
| 336  | UD 74.5  |      |
|      | * *************                                      |      |
| 337  | KK 8C1   |      |
| 338  | KM Combine hydrograph at node 9                      |      |
| 339  | HC 2   |      |
|      | * ***********  |      |
|      |  |      |

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```
ID.....1.....2.....3.....4.....5......6.....7.....8......9.....10
LINE
 340
               KK
                   Combine hydrographs from North-West and South drain
 341
               КМ
               HC 2
 342
                      9R .
 343
               KK
                   Route hydrograph to the PANCHITA STRUCTURE
 344
               KM
 345
               RD
               RD
RC 0.08 0.03 0.08 46724 0.0004 103
RX 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1
RY 66 66 60 54 54 62 68 72
 346
 347
 348
                     29S SUB-WATER SHED
 349
               ΚK
 350
               KM Compute hydrograph for 29S
                  12.28
 351
               BA
                              60
 352
               LS
                    25.9
 353
               UD
 354
               KK
                    Com9A
 355
                  Combine two hydrographs at Node 9
 356
               HC 2
                     28S SUB-WATER SHED
 357
               KK
                    Compute hydrograph for 285
 358
               KM
               BA 25.91
LS 2.866
 359
 360
                 38.6
 361
               UD
 362
               KK Com9B
 363
                  Combine two hydrographs at Node 9
 365
               KK
                     Rt10
                    Route hydrograph to Node 10
 366
               RS 1 STOR -1
SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51
SQ 0 1000 2000 4000 6000 8000 10000
               KM
 367
 368
 369
 370
                     DIV2
               KK
 371
               KM
                  TO WATERSHED SOUTH OF NORTH MAIN
                     DIV2
                     0
 373
                             7000
                                    65000
 374
               DQ
                 2 0 2000 20
                                    2000
```

```
LINE
              ID......1.....2......3......4......5......6......7......8......9.....10
 375
              KK
                     27S SUB-WATER SHED
 376
                   Compute hydrograph for 27S
              KM ·
 377
              BA
                   12.15
 378
              LS
                           61.92
                   2.977
 379
              380
              KK Com10A
 381
                   Combine two hydrographs at Node 10
              KM
 382
              HC
                      2
383
              KK
                     26S SUB-WATER SHED
 384
                   Compute hydrograph for 26S
              ΚM
385
                  10.55
              BA
 386
              LS
                  2.974
                           62.54
387
                   13.6
              UD
              * ***********
388
              KK
                     24S SUB-WATER SHED
389
              KM
                   Compute hydrograph for 24S
390
              BA
                    3.83
391
              LS
                   2.940
                           62.11
392
              UD
              393
              KK Com10B
394
              ΚM
                  Combine three hydrographs at Node 10
395
              НÇ
              HC 3 ***************
396
              KK
                   Rt11
              KM Route hydrograph to Node 11
RS 1 STOR -1
SV 0 249.3 385.44 1661.56 3718.66 5233.82 6730.05
SQ 0 1000 2000 4000 6000 8000 10000
397
398
399
400
401
              KK
                    22S SUB-WATER SHED
402
              KM
                 Compute hydrograph for 22S
403
              BA
                    7.55
404
                 3.000
                          62.90
405
              UD
                   20.4
               *********
406
              KK ComllA
407
              KM
                Combine two hydrographs at Node 11
408
              HC 2 * ******************
```

```
ID.....1.....2.....3.....4.....5.....6......7.....8.....9.....10
LINE
                   20S SUB-WATER SHED
 409
             KK
                Compute hydrograph for 20S
 410
             КM
 411
             BA
                 10.57
 412
             LS
                2.847
                           60
             413
             UD
             KK Coml1B
 414
                Combine two hydrographs at Node 11
 415
             ΚM
             HC 2
 416
 417
             KK
                  Rt12
 418
             KΜ
                 Route hydrograph to Node 12
                        STOR -1
202.5 312.74
             RS
                  1 0
 419
                                       870.9 2706.99 3523.96 4130.87
 420
             SΨ
             SQ 0 1000 2000
* *******
                                       4000 6000 8000 10000
                   18S SUB-WATER SHED
 422
             KK
             KM Compute hydrograph for 18S
 423
                  4.69
 424
             BA
                 2.885
                            60
 425
             LS
                  16.5
 426
             UD
              * *******
 427
             KK
                 Com12
              KM Combine two hydrographs at Node 12
              HC 2
 429
 430
             KK
                  Rt13
             RS 1 STOR -1
SV 0 71.07 113.63 427.96 987.6 1443.8 1838.89
SQ 0 1000 2000 4000 6000 8000 10000
 431
 432
 433
 434
                   16S SUB-WATER SHED
 435
              KK
              KM Compute hydrograph for 16S
 436
              BA 9.60
LS 3.705 60
UD 23.5
 437
 438
 439
 440
              KK Com13A
              KM Combine two hydrographs at Node 13
 441
 442
              HC 2 .
```

|      | HEC-1 INPUT  |
|------|--|
| LINE | ID12345678910                                      |
| 443  | KK 15S SUB-WATER SHED                              |
| 444  | KM Compute hydrograph for 15S                      |
| 445  | BA 25.08   |
| 446  | LS 3.517 60  |
| 447  | UD 36.4  |
|      | * ***********                                      |
| 448  | KK Com13B  |
| 449  | KM Combine two hydrographs at Node 13              |
| 450  | HC 2   |
|      | * **********                                       |
| 451  | KK Rtl4  |
| 452  | KM Route hydrograph to Node 14                     |
| 453  | RS 1 STOR -1                                       |
| 454  | SV 0 325.09 531.58 2194.95 4313.68 5830.17 7281.01 |
| 455  | SQ 0 1000 2000 4000 6000 8000 10000                |
|      | * ************                                     |
| 456  | KK 13S SUB-WATER SHED                              |
| 457  | KM Compute hydrograph for 13S                      |
| 458  | BA 19.76   |
| 459  | LS 3.807 60  |
| 460  | UD 32.6  |
|      | * ***********                                      |
| 461  | KK Com14A  |
| 462  | KM Combine two hydrographs at Node 14              |
| 463  | HC 2   |
|      | * ************                                     |
| 464  | KK 14S SUB-WATER SHED                              |
| 465  | KM Compute hydrograph for 148                      |
| 466  | BA 9.53  |
| 467  | LS 3.060 60  |
| 468  | UD 22.9  |
|      | * ************                                     |
| 469  | KK Com14B  |
| 470  | KM Combine two hydrographs at Node 14              |
| 471  | HC 2   |
|      | * ***********                                      |
| 472  | KK Rt15  |
| 473  | KM Route hydrograph to Node 15                     |
| 474  | RS 1 STOR -1                                       |
| 475  | SV 0 208.71 319.05 1791.94 3107.58 4264.72 5131.9  |
| 476  | SQ 0 1000 2000 4000 6000 8000 10000                |
|      | * ************                                     |

,

```
LINE
            ID......1.....2.....3.....4.....5.....6......7.....8.....9.....10
477
            KK
                 11S SUB-WATER SHED
 478
               Compute hydrograph for 11S
            КM
 479
            BA
                8.20
               2.970
 480
            LS
                      61.62
 481
            UD
                 12.2
              *************
 482
            KK
                Com15
               Combine two hydrographs at Node 15
 483
            ΚM
            HC 2
 485
            KK
                Rt16
 486
            KM
                Route hydrograph to Node 16
                 1 STOR -1
0 197.28 298.23 1677.59 3541.79 4950.66 5984.55
 487
            RS
 488
            SV
                  0
            SQ 0 1000 2000 4000 6000 8000 10000
 489
 490
                  7S SUB-WATER SHED
            KK
 491
            KM
               Compute hydrograph for 7S
               29.41
3.141
38.3
 492
            BA
 493
            LS
            UD 38.3
 495
            KK
               Com16
            KM Combine two hydrographs at Node 16
 496
            HC 2
 497
 498
            KK
                 Rt17
 499
            KM
                Route hydrograph to Node 17
                 1 0
 500
            RS
                       STOR
                               -1
 501
            ςV
                    0 432.95 639.58 954.67 1433.05 2543.25 3518.78
            SQ 0 1000 2000
 502
            SQ
                                   4000 6000 8000 10000
 503
            KK
                  6S SUB-WATER SHED
 504
            KM
               Compute hydrograph for S6
 505
            BA
                 9.21
 506
            LS
               2.183
                          60
            507
 508
            KK
               Com17
               Combine two hydrographs at Node 17
 509
            KM
 510
             HC 2
```

| LINE | ID12345678910                                     |
|------|---|
| 511  | KK Rt18   |
| 512  | KM Route hydrograph to Node 18                    |
| 513  | RS 1 STOR -1                                      |
| 514  | SV 0 388.62 558.69 807.92 1617.19 3723.86 4996.12 |
| 515  | SQ 0 1000 2000 4000 6000 8000 10000               |
|      | * ************                                    |
| 516  | KK 4S SUB-WATER SHED                              |
| 517  | KM Compute hydrograph for 4S                      |
| 518  | BA 22.35  |
| 519  | LS 2.400 60                                       |
| 520  | UD 19.6   |
|      | 女 法全头实现分的安徽的有效女女女的有情情有                            |
| 521  | KK Com19A   |
| 522  | KM Combine two hydrographs at Node 18             |
| 523  | HC 2  |
|      | * ***********                                     |
| 524  | KK 3S SUB-WATER SHED                              |
| 525  | KM Compute hydrograph for 35                      |
| 526  | BA 4.49   |
| 527  | LS 1.153 60                                       |
| 528  | UD 16.0   |
|      | * ***********                                     |
| 529  | KK Com18B   |
| 530  | KM Combine two hydrographs at Node 18             |
| 531  | HC 2  |
|      | * **********                                      |
| 532  | KK Rt19   |
| 533  | KM Route hydrograph to                            |
| 534  | RS 1 STOR -1                                      |
| 535  | sv 0 130.79 184.8 301.29 542.75 727.63 1178.32    |
| 536  | SO 0 1000 2000 4000 6000 8000 10000               |
|      | * **********                                      |
| 537  | KK 2S SUB-WATER SHED                              |
| 538  | KM Compute hydrograph for S2                      |
| 539  | BA 5.35   |
| 540  | LS 0.992 60                                       |
| 541  | UD 10.0   |
|      | * *********                                       |
| 542  | KK Com19A   |
| 543  | KM Combine two hydrographs at Node 19             |
| 544  | HC 2  |
|      |   |

|      | HEC-1 INPUT                           | PAGE 17 |
|------|---------------------------------------|---------|
| LINE | ID12345678910                         |         |
| 545  | KK 1S SUB-WATER SHED                  |         |
| 546  | KM Compute hydrograph for 1S          |         |
| 547  | BA 7.47                               |         |
| 548  | LS 1.659 60                           |         |
| 549  | UD 20.4                               |         |
|      | * **********                          |         |
| 550  | KK Com19B                             |         |
| 551  | KM Combine two hydrographs at Node 19 |         |
| 552  | HC 2                                  |         |
|      | * *********                           |         |
| 553  | 7.2                                   |         |

|               | SCHEMATIC DIAG         | RAM OF STREAM NETWORK                 |
|---------------|------------------------|---------------------------------------|
| INPUT<br>LINE |                        | (>) DIVERSION OR PUMP FLOW            |
| NO.           |                        | (<) RETURN OF DIVERTED OR PUMPED FLOW |
| 5             | SC-7A<br>V             |                                       |
| 11            | V<br>1R                |                                       |
| 17            | . SC-7B                |                                       |
| 22            | 1C<br>V<br>V           |                                       |
| 25            | 2R                     |                                       |
| 31            | . sc-7c                |                                       |
| 36            |                        | SC-6A                                 |
| 41            | v<br>v                 |                                       |
| 44            | 3R                     |                                       |
| 50            | . SC-6B                |                                       |
| 55            |                        | SC-7D<br>V                            |
| 60            |                        | V<br>3R<br>•                          |
| 66            | 3C<br>V<br>V           |                                       |
| 69            | v<br>4 R<br>•          |                                       |
| 74            | . SC5A<br>. V          |                                       |
| 79            | . 5ACANA<br>. V<br>. V |                                       |
| 88            | . SAROUT               |                                       |
| 94            |                        | SC5A1                                 |
| 99            | 5AA1<br>V<br>V         |                                       |
| 102           | 5A1CAN V               |                                       |
| 109           | . 5A1RT                |                                       |
| 115           |                        | SC5B                                  |
| 120           | . 4C1                  |                                       |
| 123           | · · · · · · ·          | SC-4A<br>V                            |
| 128           |                        | V<br>4ACANA<br>V                      |
|               |                        |                                       |

|     |               |                 | V<br>4AROUT      |                   |
|-----|---------------|-----------------|------------------|-------------------|
| 143 | •             | •               |                  | SC 471            |
|     |               |                 | •                | SC-4A1            |
| 148 | :             |                 | SC4AA1<br>V      |                   |
| 151 | •             | •               | V<br>4A1CAN<br>V |                   |
| 160 | •             | •               | V<br>4A1ROU      |                   |
| 166 | •             | :               | •                | SC-4B             |
| 171 | •             |                 | •                |                   |
| 171 |               | •               | SC4AAB<br>V<br>V | • • • • • • • • • |
| 174 |               | •               | 4BCANA<br>V      |                   |
| 183 | :             |                 | V<br>4AABRT      |                   |
| 189 |               |                 | :                | SC-4B1            |
| 194 | ·<br>·        | •               | SC-4             |                   |
| 107 |               |                 |                  | •••••             |
| 197 | 4C2<br>V<br>V |                 |                  |                   |
| 200 | 5R            |                 |                  |                   |
| ,   |               | sc-3            |                  |                   |
| 210 | 5C            |                 |                  |                   |
| 213 | V<br>6R       |                 |                  |                   |
| 218 | •             | SC-3A           |                  |                   |
| 223 | •             | •               | SC-3B            |                   |
| 228 | 6C            |                 |                  |                   |
|     | V<br>V        | ••••••          |                  |                   |
| 231 | 7R<br>-<br>-  |                 |                  |                   |
| 236 | :             | SC-2            |                  |                   |
| 241 | 7C<br>V       |                 |                  |                   |
| 244 | V<br>8R       |                 |                  |                   |
| 249 | •             | SC-1            |                  |                   |
| 254 | 8C1           | · · · · · · · · |                  |                   |
| 257 | •             | SC-8            |                  |                   |
|     |               | V<br>V          |                  |                   |
| -   |               | 1BR             |                  |                   |

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| 268 |         | :      | SM-18         |
|-----|---------|--------|---------------|
| 273 |         | 1BC1   | :             |
| 2.3 |         |        |               |
| 276 |         | :      | SM-17         |
| 281 |         | 1BC2   |               |
| 204 |         | V<br>V |               |
| 284 |         | 2BR    |               |
| 290 | :       | :      | SM-16         |
| 295 |         | •      |               |
| ••• |         | V<br>V |               |
| 298 |         | 3BR .  |               |
| 304 |         | :      | SM-15         |
| 309 | :       | 3BC    |               |
|     | :       | V<br>V |               |
| 312 | :       | 4BR    |               |
| 318 |         | :      | SM-14         |
| 323 |         | 4BC    | :             |
| 320 |         | V      |               |
| 326 |         | 8BR    |               |
| 332 |         | •      | SM-13         |
| 337 | •       | 8C1    | :             |
| 33. | :       |        | • • • • • • • |
| 340 | 8C2     |        |               |
| 343 | V<br>9R |        |               |
| 349 | :       | 295    |               |
| 343 |         |        |               |
| 354 | Com9A   |        |               |
| 357 | •       | 28S    |               |
| 362 | Com9R   |        |               |
| 302 | V<br>V  |        |               |
| 365 | Rt10    |        |               |
| 372 |         | > DIV2 |               |
| 370 | DIV2    |        |               |
| 375 |         | 27S    |               |
| 380 | Com10A  | •      |               |
| 500 | COMTOA  |        |               |
|     | •       |        |               |

26S

|     | :           |   |     |
|-----|-------------|---|-----|
|     |             | :                                       | 248 |
|     |             |   |     |
| 393 | Com10B      |   |     |
|     | V           |   |     |
| 396 | V<br>Rt11   |   |     |
|     |             |   |     |
| 401 | •           | 228                                     |     |
|     | :           |   |     |
| 406 | Com112      | •                                       |     |
| 400 | COMITA      |   |     |
| 400 |             |   |     |
| 409 | :           | 205                                     |     |
|     |             |   |     |
| 414 | ComllB      | • |     |
|     | V           |   |     |
| 417 | Rt12        |   |     |
|     | :           |   |     |
| 422 | •           | 188                                     |     |
|     | :           |   |     |
| 427 |             |   |     |
|     | v           |   |     |
| 430 | Rt13        |   |     |
|     | •           |   |     |
| 435 | ·           | 168                                     |     |
|     | •           | -                                       |     |
| **0 | Com13A      |   |     |
|     |             |   |     |
| 443 | :           | 158                                     |     |
|     | •           |   |     |
| 448 | Com13B      |   |     |
|     | V           |   |     |
| 451 | V<br>Rt14   |   |     |
|     | •           |   |     |
| 456 | •           | 138                                     |     |
|     | :           |   |     |
| 461 | Coml4A      |   |     |
| 701 |             |   |     |
| 464 |             | 140                                     |     |
| 404 | :           | 145                                     |     |
| 460 |             | •                                       |     |
| 469 | Com14B<br>V |   |     |
| 472 | V           |   |     |
| 472 | Rt15        |   |     |
|     |             |   |     |
| 477 |             | 118                                     |     |
|     |             |   |     |
| 482 | Com15<br>V  | • |     |
|     | v           |   |     |
| 485 | Rt16        |   |     |
|     | :           |   |     |
| 490 |             | 78                                      |     |
|     |             |   |     |
| 195 | Coml6       |   |     |
|     | V<br>V      |   |     |
| 448 | Rt17        |   |     |
|     |             |   |     |

| 503 | ·<br>·      | 6S |
|-----|-------------|----|
| 508 | Com17       |    |
| 511 | V<br>Rt18   |    |
| 516 |             | 45 |
| 521 | Com18A      |    |
| 524 | :<br>:      | 38 |
| 529 | Com18B<br>V |    |
| 532 | V<br>Rt19   |    |
| 537 |             | 2S |
| 542 | Com19A      |    |
| 545 | ·<br>·      | 18 |
| 550 | Com19B      |    |

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|        |                             |                | PEAK | TIME OF | AVERAGE | FLOW FOR MAX | IMUM PERIOD | BASIN        | MAXIMUM | TIME OF   |
|--------|-----------------------------|----------------|------|---------|---------|--------------|-------------|--------------|---------|-----------|
| +      | OPERATION                   | STATION        | FLOW | PEAK    | 6-HOUR  | 24~HOUR      | 72-HOUR     | AREA         | STAGE   | MAX STAGE |
| +      | HYDROGRAPH AT               | SC-7A          | 13.  | 72.00   | 13.     | 12.          | 10.         | 18.40        |         |           |
| +      | ROUTED TO                   | 1R             | 12.  | 81.00   | 12.     | 12.          | 10.         | 18.40        |         |           |
| +      | HYDROGRAPH AT               | SC-7B          | 44.  | 37.00   | 44.     | 36.          | 17.         | 9.82         |         |           |
| +      | 2 COMBINED AT               | 10             | 45.  | 39.00   | 44.     | 38.          | 24.         | 28.22        |         |           |
| +      | ROUTED TO                   | 2 <b>R</b>     | 42.  | 46.00   | 42.     | 36.          | 23.         | 28.22        |         |           |
| +      | HYDROGRAPH AT HYDROGRAPH AT | SC-7C          | 97.  | 44.00   | 97.     | 87.          | 49.         | 23.00        |         |           |
| +      | 3 COMBINED AT               | SC-6A          | 159. | 67.00   | 159.    | 154.         | 119.        | 41.66        |         |           |
| +      | ROUTED TO                   | 2C             | 256. | 53.00   | 255.    | 243.         | 186.        | 92.88        |         |           |
| +      | HYDROGRAPH AT               | ЗК             | 255. | 55.00   | 254.    |              | 185.        | 92.88        |         |           |
| +      | HYDROGRAPH AT               | SC-6B<br>SC-7D | 271. | 37.00   | 268.    | 231.<br>35.  | 116.        | 6.58         |         |           |
| +      | ROUTED TO                   | 3R             | 39.  | 45.00   | 38.     | 34.          | 19.         | 6.15<br>6.15 |         |           |
| +      | 3 COMBINED AT               | 3C             | 482. | 44.00   | 478.    | 437.         | 305.        | 105.61       |         |           |
| +      | ROUTED TO                   | 4R             | 477. | 46.00   | 473.    | 434.         | 305.        | 105.61       |         |           |
| +      | HYDROGRAPH AT               | SC5A           | 491. | 66.00   | 491.    | 476.         | 369.        | 38.43        |         |           |
| +      | ROUTED TO                   | 5ACANA         | 418. | 82.00   | 415.    | 374.         | 233.        | 38.43        | 140.85  | 82.00     |
| +      | ROUTED TO                   | 5AROUT         | 417. | 86.00   | 414.    | 373.         | 230.        | 38.43        |         |           |
| +      | HYDROGRAPH AT               | SC5A1          | 329. | 29.00   | 320.    | 238.         | 98.         | 5.64         |         |           |
| +      | 2 COMBINED AT               | 5 <b>AA</b> 1  | 418. | 86.00   | 415.    | 373.         | 231.        | 44.07        |         |           |
| +<br>+ | ROUTED TO                   | 5A1CAN         | 340. | 98.00   | 334.    | 279.         | 171.        | 44.07        | 116.96  | 98.00     |
| +      | ROUTED TO                   | 5A1RT          | 338. | 106.00  | 330.    | 273.         | 169.        | 44.07        |         |           |
| +      | HYDROGRAPH AT               | SC5B           | 459. | 27.00   | 445.    | 314.         | 123.        | 9.02         |         |           |
| +      | 2 COMBINED AT               | 4C1            | 459. | 27.00   | 445.    | 314.         | 169.        | 53.09        |         |           |

| +             | HYDROGRAPH AT | SC-4A  | 557.  | 52.00  | 556.  | 524.  | 350.  | 30.73  |        |        |
|---------------|---------------|--------|-------|--------|-------|-------|-------|--------|--------|--------|
| ++            | ROUTED TO     | 4ACANA | 42.   | 121.00 | 42.   | 39.   | 27.   | 30.73  | 171.84 | 121.00 |
| +             | ROUTED TO     | 4AROUT | 42.   | 126.00 | 42.   | 39.   | 27.   | 30.73  | 1/1.04 | 121.00 |
| +             | HYDROGRAPH AT | SC-4Al | 502.  | 25.00  | 483.  | 311.  | 115.  | 7.34   |        |        |
| +             | 2 COMBINED AT | SC4AA1 | 502.  | 25.00  | 483.  | 311.  | 115.  | 38.07  |        |        |
| ++            | ROUTED TO     | 4A1CAN | 205.  | 35.00  | 179.  | 89.   | 32.   | 38.07  | 141.07 | 35.00  |
| +             | ROUTED TO     | 4A1ROU | 201.  | 38.00  | 175.  | 89.   | 32.   | 38.07  |        |        |
| +             | HYDROGRAPH AT | SC-4B  | 368.  | 21.00  | 340.  | 173.  | 59.   | 5.44   |        |        |
| +             | 2 COMBINED AT | SC4AAB | 368.  | 21.00  | 340.  | 194.  | 91.   | 43.51  |        |        |
| <b>+</b><br>+ | ROUTED TO     | 4BCANA | 196.  | 40.00  | 174.  | 94.   | 35.   | 43.51  | 113.75 | 40.00  |
| +             | ROUTED TO     | 4AABRT | 192.  | 44.00  | 169.  | 93.   | 35.   | 43.51  |        |        |
| +             | HYDROGRAPH AT | SC-4B1 | 338.  | 26.00  | 326.  | 223.  | 86.   | 6.07   |        |        |
| +             | 2 COMBINED AT | SC-4   | 338.  | 26.00  | 326.  | 230.  | 120.  | 49.58  |        |        |
| +             | 3 COMBINED AT | 4C2    | 962.  | 29.00  | 947.  | 826.  | 531.  | 208.28 |        |        |
| +             | ROUTED TO     | 5R     | 935.  | 31.00  | 919.  | 815.  | 529.  | 208.28 |        |        |
| +             | HYDROGRAPH AT | SC-3   | 663.  | 77.00  | 662.  | 650.  | 547.  | 56.44  |        |        |
| +             | 2 COMBINED AT | 5C     | 1120. | 48.00  | 1113. | 1064. | 967.  | 264.72 |        |        |
| +             | ROUTED TO     | 6R     | 1102. | 53.00  | 1097. | 1061. | 962.  | 264.72 |        |        |
| +             | HYDROGRAPH AT | SC-3A  | 91.   | 72.00  | 91.   | 89.   | 73.   | 5.87   |        |        |
| +             | HYDROGRAPH AT | SC-3B  | 110.  | 50.00  | 110.  | 103.  | 66.   | 6.71   |        |        |
| +             | 3 COMBINED AT | 6C     | 1279. | 53.00  | 1274. | 1231. | 1094. | 277,30 |        |        |
| +             | ROUTED TO     | 7R     | 1278. | 54.00  | 1273. | 1231. | 1094. | 277.30 |        |        |
| +             | HYDROGRAPH AT | SC-2   | 23.   | 74.00  | 23.   | 22.   | 18.   | 11.48  |        |        |
| +             | 2 COMBINED AT | 7C     | 1295. | 54.00  | 1290. | 1250. | 1111. | 288.78 |        |        |
| +             | ROUTED TO     | 8R     | 1289. | 57.00  | 1285. | 1248. | 1108. | 288.78 |        |        |
| +             | HYDROGRAPH AT | SC-1   | 197.  | 53.00  | 196.  | 186.  | 127.  | 7.07   |        |        |

|          | 2 COMBINED  | ስ Tr        |       |       |       |       |       |        |
|----------|-------------|-------------|-------|-------|-------|-------|-------|--------|
|          |             | 8C1         | 1481. | 57.00 | 1476. | 1425. | 1232. | 295.85 |
| +        | HYDROGRAPH  | AT<br>SC-8  | 335.  | 67.00 | 335.  | 325.  | 258.  | 19.99  |
| +        | ROUTED TO   | 1BR         | 334.  | 71.00 | 334.  | 325.  | 257.  | 19.99  |
| +        | HYDROGRAPH  | AT<br>SM-18 | 140.  | 72.00 | 140.  | 137.  | 110.  | 27.11  |
| +        | 2 COMBINED  | AT<br>1BC1  | 475.  | 71.00 | 474.  | 461.  | 367.  | 47.10  |
| +        | HYDROGRAPH  | AT SM-17    | 242.  | 50.00 | 242.  | 227.  | 149.  | 7.03   |
| +        | 2 COMBINED  | AT<br>1BC2  | 657.  | 63.00 | 655.  | 632.  | 501.  | 54.13  |
| +        | ROUTED TO   | 2BR         | 657.  | 64.00 | 655.  | 632.  | 501.  | 54.13  |
| +        | HYDROGRAPH  | AT<br>SM-16 | 263.  | 76.00 | 262.  | 257.  | 215.  | 25.18  |
| +        | 2 COMBINED  | AT 2BC      | 903.  | 66,00 | 901.  | 874.  | 711.  | 79.31  |
| ÷        | ROUTED TO   | 3BR         | 903.  | 66.00 | 901.  | 874.  | 711.  | 79.31  |
|          | HYDROGRAPH  | AT SM-15    | 291.  | 54.00 | 290.  | 277.  | 193.  | 11.10  |
| <b>.</b> | 2 COMBINED  |             | 1163. | 63.00 | 1161. | 1122. | 893.  | 90.41  |
|          | ROUTED TO   | 4BR         | 1163. | 64.00 |       |       |       |        |
|          | HYDROGRAPH  |             | 1103. | 54.00 | 1160. | 1121. | 892.  | 90.41  |
| ۴        |             | SM-14       | 300.  | 82.00 | 300.  | 295.  | 255.  | 21.60  |
| ٠        | 2 COMBINED  | AT 4BC      | 1425. | 67.00 | 1422. | 1380. | 1134. | 112.01 |
| ٠        | ROUTED TO   | 8BR         | 1425. | 68.00 | 1422. | 1380. | 1133. | 112.01 |
| +        | HYDROGRAPH  | AT<br>SM-13 | 80.   | 90.00 | 80.   | 79.   | 70.   | 22.25  |
| ٠        | 2 COMBINED  | AT<br>8C1   | 1491. | 69.00 | 1488. | 1446. | 1198. | 134.26 |
| ٠        | 2 COMBINED  | AT<br>8C2   | 2898. | 63.00 | 2894. | 2828. | 2400. | 430.11 |
| ٠        | ROUTED TO   | 9R          | 2896. | 66.00 | 2892. | 2825. | 2398. | 430.11 |
| +        | HYDROGRAPH  | AT 29S      | 266.  | 41.00 | 263.  | 235.  | 128.  | 12.28  |
| •        | 2 COMBINED  | AT Com9A    | 2982. | 64.00 | 2977. | 2909. | 2482. | 442.39 |
|          | HYDROGRAPH  | AT 28S      | 394.  | 54.00 | 393.  | 372.  | 253.  | 25.91  |
| +        | 2 COMBINED  | AT Com9B    | 3334. | 62.00 | 3328. | 3237. | 2718. | 468.30 |
| <b>.</b> | ROUTED TO   | Rt10        | 3223. | 71.00 | 3218. | 3144. | 2693. | 468.30 |
|          | DIVERSION T | CO DIV2     | 921.  | 71.00 | 919.  | 898.  | 769.  | 468.30 |
|          |             |             |       |       |       |       |       |        |

| + | HYDROGRAPH AT | DIV2   | 2302. | 71.00 | 2298. | 2246. | 1923. | 468.30  |
|---|---------------|--------|-------|-------|-------|-------|-------|---------|
| + | HYDROGRAPH AT | 27S    | 472.  | 29.00 | 460.  | 343.  | 141.  | 12.15   |
| + | 2 COMBINED AT | Com10A | 2312. | 70.00 | 2308. | 2257. | 1949. | 480.45  |
| + | HYDROGRAPH AT | 26S    | 448.  | 28.00 | 436.  | 314.  | 125.  | 10.55   |
| + | HYDROGRAPH AT | 245    | 157.  | 29.00 | 153.  | 114.  | 47.   | 3.83    |
| + | 3 COMBINED AT | Com10B | 2321. | 70.00 | 2317. | 2268. | 1980. | 494.83  |
| + | ROUTED TO     | Rt11   | 2272. | 76.00 | 2269. | 2231. | 1978. | 494.83  |
| + | FYDROGRAPH AT | 22S    | 227.  | 35.00 | 224.  | 187.  | 89.   | 7.55    |
| + | 2 COMBINED AT | Com11A | 2286. | 76.00 | 2283. | 2247. | 2020. | 502.38  |
| + | HYDROGRAPH AT | 20S    | 268.  | 39.00 | 265.  | 232.  | 121.  | , 10.57 |
| + | 2 COMBINED AT | Com11B | 2321. | 74.00 | 2318. | 2287. | 2108. | 512.95  |
| + | ROUTED TO     | Rt12   | 2313. | 77.00 | 2311. | 2283. | 2107. | 512.95  |
| + | HYDROGRAPH AT | 185    | 168.  | 31.00 | 165.  | 128.  | 55.   | 4.69    |
| + | 2 COMBINED AT | Com12  | 2316. | 77.00 | 2314. | 2287. | 2136. | 517.64  |
| + | ROUTED TO     | Rt13   | 2314. | 79.00 | 2312. | 2286. | 2136. | 517.64  |
| + | HYDROGRAPH AT | 165    | 159.  | 39.00 | 158.  | 138.  | 71.   | 9.60    |
| + | 2 COMBINED AT | Com13A | 2330. | 78.00 | 2328. | 2306. | 2195. | 527.24  |
| + | HYDROGRAPH AT | 158    | 289.  | 52.00 | 287.  | 270.  | 178.  | 25.08   |
| + | 2 COMBINED AT | Com13B | 2558. | 53.00 | 2556. | 2530. | 2370. | 552.32  |
| + | ROUTED TO     | Rt14   | 2492. | 70.00 | 2491. | 2483. | 2348. | 552.32  |
| + | HYDROGRAPH AT | 138    | 216.  | 48.00 | 215.  | 199.  | 124.  | 19.76   |
| + | 2 COMBINED AT | Com14A | 2641. | 60.00 | 2639. | 2613. | 2461. | 572.08  |
| + | HYDROGRAPH AT | 148    | 230.  | 38.00 | 227.  | 196.  | 100.  | 9.53    |
| + | 2 COMBINED AT | Com14B | 2719. | 57,00 | 2717. | 2688. | 2534. | 581.61  |
| + | ROUTED TO     | Rt15   | 2664. | 67.00 | 2663. | 2643. | 2506. | 581.61  |
| + | HYDROGRAPH AT | 118    | 376.  | 26.00 | 364.  | 250.  | 96.   | 8.20    |
| + | S COMBINED AT | Com15  | 2668. | 66.00 | 2666. | 2647. | 2522. | 589.81  |
|   |               |        |       |       |       |       |       |         |

| 4 | ROUTED TO     | Rt16   | 2635. | 76.00 | 2634. | 2620. | 2500. | 589.81 |  |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT | 7S     | 390.  | 54.00 | 389.  | 368.  | 249.  | 29.41  |  |
| + | 2 COMBINED AT | Com16  | 2920. | 67.00 | 2917. | 2887. | 2722. | 619.22 |  |
| + | ROUTED TO     | Rt17   | 2917. | 68.00 | 2915. | 2885. | 2720. | 619.22 |  |
| + | HYDROGRAPH AT | 6S     | 537.  | 27.00 | 521.  | 365.  | 142.  | 9.21   |  |
| + | 2 COMBINED AT | Com17  | 2923. | 68.00 | 2921. | 2892. | 2740. | 628.43 |  |
| + | ROUTED TO     | Rt18   | 2922. | 69.00 | 2919. | 2891. | 2738. | 628.43 |  |
| + | HYDROGRAPH AT | 4S     | 796.  | 34.00 | 783.  | 647.  | 303.  | 22.35  |  |
| + | 2 COMBINED AT | Ćom18A | 3104. | 43.00 | 3086. | 3035. | 2880. | 650.78 |  |
| + | HYDROGRAPH AT | 38     | 310.  | 30.00 | 302.  | 231.  | 98.   | 4.49   |  |
| + | 2 COMBINED AT | Com18B | 3243. | 42.00 | 3215. | 3110. | 2918. | 655.27 |  |
| + | ROUTED TO     | Rt19   | 3237. | 43.00 | 3212. | 3108. | 2917. | 655.27 |  |
| + | HYDROGRAPH AT | 2\$    | 577.  | 23.00 | 552.  | 338.  | 122.  | 5.35   |  |
| 7 | 2 COMBINED AT | Com19A | 3292. | 42.00 | 3263. | 3135. | 2932. | 660.62 |  |
| + | HYDROGRAPH AT | 18     | 350.  | 35.00 | 345.  | 289.  | 137.  | 7.47   |  |
| + | 2 COMBINED AT | Com19B | 3576. | 41.00 | 3539. | 3321. | 3021. | 668.09 |  |

## SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAQ ELEMENT DT PEAK TIME TO VOLUME DT PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (TN) MANE 60.00 4860.00 1R 12.46 0.08 60.00 12.46 4860.00 0.08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7543E+02 EXCESS=0.0000E+00 OUTFLOW=0.7512E+02 BASIN STORAGE=0.7456E-02 PERCENT ERROR= 2R MANE 60.00 42.29 2760.00 0.12 60.00 42.29 2760.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1795E+03 EXCESS=0.0000E+00 OUTFLOW=0.1788E+03 BASIN STORAGE=0.2367E-01 PERCENT ERROR= 0.3 3R MANE 60.00 255,31 3300.00 0.28 60.00 255.31 3300.00 0.28 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1385E+04 EXCESS=0.0000E+00 OUTFLOW=0.1385E+04 BASIN STORAGE=0.1986E-01 PERCENT ERROR= 0.0 3R MANE 60.00 38.55 2700.00 0.36 60.00 38.55 2700.00 0.36 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1179E+03 EXCESS=0.0000E+00 OUTFLOW=0.1173E+03 BASIN STORAGE=0.5410E-02 PERCENT ERROR= SAROUT 39 00 MANE 417.48 5148.00 0.78 60.00 417.39 5160.00 0.78 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1606E+04 EXCESS=0.0000E+00 OUTFLOW=0.1606E+04 BASIN STORAGE=0.3599E+00 PERCENT ERROR= 0.0 5AIRT 338.08 6384.00 MANE 24.00 0.51 60.00 337.86 6360.00 0.51 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1207E+04 EXCESS=0.0000E+00 OUTFLOW=0.1196E+04 BASIN STORAGE=0.1447E+01 PERCENT ERROR= 0.8 4AROUT MANE 60.00 42.18 7560.00 0.12 60.00 42.18 7560.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1900E+03 EXCESS=0.0000E+00 OUTFLOW=0.1897E+03 BASIN STORAGE=0.1295E+00 PERCENT ERROR= 0.1 4A1ROU MANE. 12.00 202.04 2292.00 0.19 60.00 201.49 2280.00 0.19 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3809E+03 EXCESS=0.0000E+00 OUTFLOW=0.3792E+03 BASIN STORAGE=0.1776E+00 PERCENT ERROR= 0.4 4AABRT MANE 24.00 192.22 2640.00 0.17 60.00 192.22 2640.00 0.17 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4037E+03 EXCESS=0.0000E+00 OUTFLOW=0.4036E+03 BASIN STORAGE=0.7820E+00 PERCENT ERROR= 1RR MANE 60.00 334.46 4260.00 1.88 60.00 334.46 4260.00 1.88 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2006E+04 EXCESS=0.0000E+00 OUTFLOW=0.2005E+04 BASIN STORAGE=0.1184E-01 PERCENT ERROR= 0.0 2BR MANE 60.00 656.73 3840.00 1.34 60.00 656 73 3840.00 1.34 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3874E+04 EXCESS=0.0000E+00 OUTFLOW=0.3874E+04 BASIN STORAGE=0.6878E-02 PERCENT ERROR= 903.19 4003.15 60.00 3BR MANE 53.38 1.34 903.03 3960.00 1.34 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5681E+04 EXCESS=0.0000E+00 OUTFLOW=0.5681E+04 BASIN STORAGE=0.1608E+00 PERCENT ERROR= 0.0

|            | 4BR     | MANE    | 60.00      | 1162.57   | 3840.00       | 1.45        | 60.00     | 1162.57     | 3840.00    | 1.45                    |     |
|------------|---------|---------|------------|-----------|---------------|-------------|-----------|-------------|------------|-------------------------|-----|
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0 | .7010E+04 | EXCESS=0.000( | E+00 OUTFLO | 0W=0.7010 | E+04 BASIN  | STORAGE=0. | 2350E+00 PERCENT ERROR= | 0.0 |
|            | 8BR     | MANE    | 60.00      | 1424.98   | 4080.00       | 1.56        | 60.00     | 1424.98     | 4080.00    | 1.56                    |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW≖0 | .9314E+04 | EXCESS=0.0000 | E+00 OUTFLO | )W=0.9313 | BE+04 BASIN | STORAGE=0. | 7437E+00 PERCENT ERROR= | 0.0 |
|            | 9R      | MANE    | 60.00      | 2896.11   | 3960.00       | 0.95        | 60.00     | 2896.11     | 3960.00    | 0.95                    |     |
|            |         |         |            |           |               |             |           |             |            |                         |     |

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2170E+05 EXCESS=0.0000E+00 OUTFLOW=0.2170E+05 BASIN STORAGE=0.1060E+02 PERCENT ERROR= 0.0

|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>135               | VALUE<br>0.00<br>0.         | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|---|------|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| L |      | 1.00               |                                  |                              |                             | 418.<br>REACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               | . VALUE<br>.00<br>0.<br>0.  | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|   |      | RATIO<br>OF<br>PME | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| L |      | 1.00               |                                  |                              |                             | 340.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               | , VALUE<br>.00<br>0.<br>0.  | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| - |      | 1.00               |                                  |                              |                             | 42.<br>EACH ANALYSIS<br>STEP USED D   |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC~FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      | 1.00               |                                  |                              |                             | 205.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               | VALUE<br>.00<br>c.          | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      | 1.00               | 113.75                           | 0.10                         | 355.                        | 196.                                  | 10.00                         | 40.00                              | 0.00                        |

## **HEC-1 MODEL**

## REVISED EXISTING CONDITIONS NORTH MAIN

100-YEAR MODEL

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| Х   | Х    | XXXXXXX | XX | XXX |       | Х   |
|-----|------|---------|----|-----|-------|-----|
| X   | X    | X       | Х  | Х   |       | XX  |
| X   | X    | X       | Х  |     |       | X   |
| XXX | XXXX | XXXX    | Х  |     | XXXXX | X   |
| X   | X    | X       | Х  |     |       | Х   |
| Х   | Х    | Σ       | Х  | X   |       | Х   |
| X   | х    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESTRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
               10.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    Hidalgo County Flood Insurance Study
                    Job No. 11-00389-002
                    File Name: NM100re.DAT
                                               Revised Existing Conditions
                    100-year Rain-fall
               * HEC-1 model for the North-West main drain area
               * Model sequence is as follows:
               * revised rainfall from USGS report 98-4044
               * REVISED CN TYPE I ANTECEDANT
* REVISED LAG BASED ON REVISED CN I
               * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
               * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
               * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
               * ROUTED 5&4 BASINS THROUGH STORAGE
               * MODIFIED PULS ROUTING REACHES 5R-9R
               * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
               *DTAGRAM
                    West Main drain area
               ID
   2
                     100-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
               TD
   3
               IT
                      60 1JAN01
                                      0
                                             300
                       5
   4
               TΩ
               * Start calculating hydrograph for the sub water sheds
                 that drain to the West Main drain.
               KK
                   SC-7A SUBWATER SHED
               KM
                   Compute hydrograph for sub-water shed SC-7A
               BA
                    18.4
  8
              PH
                                                     4.68 5.65
                                                                    6.29
                                                                            7.51
                                                                                     8.61
                                                                                             9.19
                   5,721
               LS
                               60
 10
              UD
                    53.5
 11
              KK
                     1 R
 12
                   Route hydrograph from head water to node 1 using Muskingum-Cunge Method
              ΚM
 13
              RD
                                    0.08
 14
              RC
                    0.08
                            0.03
                                          19200 0.0002
                                                             217
                    1000
 15
              RX
                            2500
                                    2917
                                            2994
                                                    3005
                                                            3061
                                                                    4500
                                                                            5000
 16
                    203.5
                           202.0
                                   204.4 191.53 191.53
              RY
                                                            204.5
                                                                   199.9
                                                                            199.0
 17
                   SC-7B SUBWATER SHED
              KK
 18
              KM
                   Compute hydrograph for sub-water shed SC-7B
 19
              BA
                    9.82
                   5.282
 20
              LS
                               60
 21
                    20.1
              UD
```

|    | OPEDATION               | CMAMEON      | PEAK  | TIME OF | AVERAGE FI | GE FLOW FOR MAXIMUM PERIOD |         | BASIN  | MAXIMUM | TIME OF   |
|----|-------------------------|--------------|-------|---------|------------|----------------------------|---------|--------|---------|-----------|
| +  | OPERATION               | STATION      | FLOW  | PEAK    | 6-HOUR     | 24-HOUR                    | 72-HOUR | AREA   | STAGE   | MAX STAGE |
| +  | HYDROGRAPH AT           | SC-7A        | 176.  | 69.00   | 176.       | 171.                       | 136.    | 18.40  |         |           |
| +  | ROUTED TO               | 1R           | 176.  | 73.00   | 175.       | 170.                       | 135.    | 18.40  |         |           |
| +  | HYDROGRAPH AT           | SC-7B        | 306.  | 35.00   | 302.       | 252.                       | 120.    | 9.82   |         |           |
| +  | 2 COMBINED AT           | 1C           | 336.  | 37.00   | 333.       | 298.                       | 228.    | 28.22  |         |           |
| +  | ROUTED TO HYDROGRAPH AT | 2R           | 328.  | 41.00   | 325.       | 293.                       | 226.    | 28.22  |         |           |
| +  | HYDROGRAPH AT           | SC-7C        | 568.  | 43.00   | 563.       | 508.                       | 286.    | 23.00  |         |           |
| +  | 3 COMBINED AT           | SC-6A        | 667.  | 66.00   | 666.       | 645.                       | 499.    | 41.66  |         |           |
| +  | ROUTED TO               | 2C           | 1333. | 48.00   | 1328.      | 1269.                      | 985.    | 92.88  |         |           |
| +  | HYDROGRAPH AT           | 3R           | 1329. | 52.00   | 1326.      | 1268.                      | 984.    | 92.88  |         |           |
| +  | HYDROGRAPH AT           | SC-6B        | 521.  | 37.00   | 515.       | 444.                       | 223.    | 6.58   |         |           |
| +  | ROUTED TO               | SC-7D        | 188.  | 41.00   | 186.       | 165.                       | 89.     | 6.15   |         |           |
| +  | 3 COMBINED AT           | 3R           | 183.  | 42.00   | 182.       | 162.                       | 89.     | 6.15   |         |           |
| +  | ROUTED TO               | 3C           | 1858. | 45.00   | 1850.      | 1744.                      | 1267.   | 105.61 |         |           |
| +  | HYDROGRAPH AT           | 4R           | 1688. | 54.00   | 1683.      | 1624.                      | 1261.   | 105.61 |         |           |
| +  | ROUTED TO               | SC5A         | 1085. | 65.00   | 1084.      | 1051.                      | 816.    | 38.43  |         |           |
| +  |                         | 5ACANA       | 1081. | 68.00   | 1079.      | 1030.                      | 715.    | 38.43  | 141.00  | 68.00     |
| +  | ROUTED TO               | 5AROUT       | 1081. | 71.00   | 1078.      | 1029.                      | 713.    | 38.43  |         |           |
| +  | HYDROGRAPH AT           | SC5A1        | 643.  | 29.00   | 627.       | 464.                       | 190.    | 5.64   |         |           |
| +  | 2 COMBINED AT           | 5 <b>AA1</b> | 1092. | 71.00   | 1089.      | 1039.                      | 718.    | 44.07  |         |           |
| ++ | ROUTED TO               | 5A1CAN       | 1088. | 73.00   | 1085.      | 1031.                      | 712.    | 44.07  | 117.15  | 73.00     |
| +  | ROUTED TO               | 5A1RT        | 1087. | 78.00   | 1084.      | 1031.                      | 707.    | 44.07  |         |           |
| +  | HYDROGRAPH AT           | SC5B         | 995.  | 27.00   | 964.       | 675.                       | 264.    | 9.02   |         |           |
| -  | 2 COMBINED AT           | 4C1          | 1089. | 78.00   | 1086.      | 1034.                      | 708.    | 53.09  |         |           |

|        | HADDOCD y Dit y m |             |       |        |       |       |       |        |        |       |
|--------|-------------------|-------------|-------|--------|-------|-------|-------|--------|--------|-------|
| +      | HYDROGRAPH AT     | SC-4A       | 1213. | 52.00  | 1209. | 1142. | 762.  | 30.73  |        |       |
| ++++   | ROUTED TO         | 4ACANA      | 1012. | 64.00  | 998.  | 835.  | 454.  | 30.73  | 172.32 | 64.00 |
| +      | ROUTED TO         | 4AROUT      | 1011. | 66.00  | 997.  | 832.  | 452.  | 30.73  |        |       |
| +      | HYDROGRAPH AT     | SC-4A1      | 1024. | 25.00  | 986.  | 632.  | 233.  | 7.34   |        |       |
| +      | 2 COMBINED AT     | SC4AA1      | 1024. | 25.00  | 1000. | 833.  | 541.  | 38.07  |        |       |
| +<br>+ | ROUTED TO         | 4A1CAN      | 1010. | 67.00  | 996.  | 826.  | 499.  | 38.07  | 141.19 | 67.00 |
| +`     | ROUTED TO         | 4A1ROU      | 1009. | 69.00  | 994.  | 821.  | 495.  | 38.07  |        |       |
| +      | HYDROGRAPH AT     | SC-4B       | 913.  | 20.00  | 830.  | 414.  | 141.  | 5.44   |        |       |
| +      | 2 COMBINED AT     | SC4AAB      | 1193. | 29.00  | 1002. | 821.  | 558.  | 43.51  |        |       |
| +<br>+ | ROUTED TO         | 4BCANA      | 1180. | 30.00  | 994.  | 818.  | 537.  | 43.51  | 114.19 | 30.00 |
| +      | ROUTED TO         | 4AABRT      | 1145. | 32.00  | 991.  | 811.  | 535.  | 43.51  |        |       |
| +      | HYDROGRAPH AT     | SC-4B1      | 725.  | 26.00  | 699.  | 475.  | 181.  | 6.07   |        |       |
| +      | 2 COMBINED AT     | SC-4        | 1667. | 32.00  | 1428. | 1024. | 672,  | 49.58  |        |       |
| +      | 3 COMBINED AT     | <b>4</b> C2 | 3435. | 73.00  | 3386. | 2967. | 2510. | 208.28 |        |       |
| +      | ROUTED TO         | 5R          | 2814. | 84.00  | 2808. | 2710. | 2418. | 208.28 |        |       |
| +      | HYDROGRAPH AT     | sc-3        | 1380. | 76.00  | 1379. | 1353. | 1138. | 56.44  |        |       |
| +      | 2 COMBINED AT     | 5C          | 4175. | 82.00  | 4165. | 4026. | 3491. | 264.72 |        |       |
| +      | ROUTED TO         | 6R          | 3661. | 106.00 | 3658. | 3610. | 3291. | 264.72 |        |       |
| +      | HYDROGRAPH AT     | SC-3A       | 179.  | 72.00  | 177.  | 174.  | 143.  | 5.87   |        |       |
| +      | HYDROGRAPH AT     | SC-3B       | 264.  | 49.00  | 263.  | 246.  | 157.  | 6.71   |        |       |
| +      | 3 COMBINED AT     | 6C          | 3804. | 103.00 | 3801. | 3758. | 3498. | 277.30 |        |       |
| +      | ROUTED TO         | 7R          | 3748. | 110.00 | 3746. | 3708. | 3482. | 277.30 |        |       |
| +      | HYDROGRAPH AT     | SC-2        | 139.  | 72.00  | 139.  | 136.  | 110.  | 11.48  |        |       |
| +      | 2 COMBINED AT     | 7C          | 3818. | 109.00 | 3816. | 3783. | 3579. | 288.78 |        |       |
| +      | ROUTED TO         | 8R          | 3752. | 122.00 | 3750. | 3722. | 3529. | 288.78 |        |       |
| +      | HYDROGRAPH AT     | SC-1        | 360.  | 52.00  | 359.  | 340.  | 231.  | 7.07   |        |       |
|        |                   |             |       |        |       |       |       |        |        |       |

| 3 | 2 COMBINED AT           | 8C1        | 3782. | 121.00 | 3780. | 3756. | 3614. | 295.85 |  |
|---|-------------------------|------------|-------|--------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT           | SC-8       | 654.  | 67.00  | 653.  | 636.  | 503.  | 19.99  |  |
| + | ROUTED TO               | 1BR        | 653.  | 70.00  | 652.  | 634.  | 503.  | 19.99  |  |
| + | HYDROGRAPH AT           | SM-18      | 479.  | 70.00  | 479.  | 467.  | 376.  | 27.11  |  |
| + | 2 COMBINED AT           | 1BC1       | 1133. | 70.00  | 1131. | 1101. | 879.  | 47.10  |  |
| + | HYDROGRAPH AT           | SM-17      | 420.  | 50.00  | 418.  | 394.  | 259.  | 7.03   |  |
| + | 2 COMBINED AT           | 1BC2       | 1445. | 63.00  | 1441. | 1393. | 1110. | 54.13  |  |
| + | ROUTED TO               | 2BR        | 1445. | 64.00  | 1440. | 1393. | 1110. | 54.13  |  |
| + | HYDROGRAPH AT           | SM-16      | 589.  | 75.00  | 588.  | 577.  | 482.  | 25.18  |  |
| + | 2 COMBINED AT           | 28C        | 2002. | 67.00  | 1998. | 1942. | 1582. | 79.31  |  |
| + | ROUTED TO               | 3BR        | 2002. | 67.00  | 1998. | 1942. | 1582. | 79.31  |  |
| + | HYDROGRAPH AT           | SM-15      | 534.  | 54.00  | 532.  | 507.  | 353.  | 11.10  |  |
| + | 2 COMBINED AT           | 3BC        | 2473. | 64.00  | 2467. | 2390. | 1915. | 90.41  |  |
| + | ROUTED TO               | 4BR        | 2471. | 65.00  | 2466. | 2388. | 1914. | 90.41  |  |
| + | HYDROGRAPH AT           | SM-14      | 571.  | 82.00  | 570.  | 562.  | 486.  | 21.60  |  |
| + | 2 COMBINED AT           | 4BC        | 2978. | 67.00  | 2971. | 2887. | 2374. | 112.01 |  |
| + | ROUTED TO               | 8BR        | 2978, | 68.00  | 2971. | 2887. | 2373. | 112.01 |  |
| + | HYDROGRAPH AT           | SM-13      | 282.  | 89.00  | 282.  | 278.  | 246.  | 22.25  |  |
| + | 2 COMBINED AT           | 8C1        | 3218. | 69.00  | 3211. | 3125. | 2600. | 134.26 |  |
| + | 2 COMBINED AT           | 8C2        | 6598. | 72.00  | 6592. | 6507. | 6021. | 430.11 |  |
| + | ROUTED TO HYDROGRAPH AT | 9 <b>R</b> | 6583. | 79.00  | 6576. | 6497. | 6017. | 430.11 |  |
| + | 2 COMBINED AT           | 295        | 634.  | 41.00  | 628.  | 560.  | 304.  | 12.28  |  |
| + | HYDROGRAPH AT           | Com9A      | 6671. | 78.00  | 6664. | 6585. | 6117. | 442.39 |  |
| + | 2 COMBINED AT           | 285        | 916.  | 53.00  | 914.  | 866.  | 588.  | 25.91  |  |
| + | ROUTED TO               | Com9B      | 7226. | 72.00  | 7218. | 7132. | 6566. | 468.30 |  |
| + | DIVERSION TO            | Rt10       | 6720. | 91.00  | 6716. | 6664. | 6267. | 468.30 |  |
| + | 1                       | DIV2       | 1920. | 91.00  | 1919. | 1904. | 1791. | 468.30 |  |

| + | HYDROGRAPH AT | DIV2   | 4800. | 91.00  | 4797. | 4760. | 4477. | 468.30 |  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT | 275    | 1110. | 29.00  | 1082. | 803.  | 329.  | 12.15  |  |
| + | 2 COMBINED AT | Com10A | 4800. | 91.00  | 4798. | 4761. | 4483. | 480.45 |  |
| + | HYDROGRAPH AT | 26\$   | 1048. | 28.00  | 1021. | 732.  | 291.  | 10.55  |  |
| + | HYDROGRAPH AT | 248    | 363.  | 29.00  | 354.  | 262.  | 107.  | 3.83   |  |
| ÷ | 3 COMBINED AT | Com10B | 4800. | 90.00  | 4798. | 4762. | 4488. | 494.83 |  |
| + | ROUTED TO     | Rt11   | 4691. | 103.00 | 4689. | 4659. | 4445. | 494.83 |  |
| + | HYDROGRAPH AT | 228    | 529.  | 35.00  | 520.  | 436.  | 207.  | 7.55   |  |
| + | 2 COMBINED AT | Com11A | 4695. | 103.00 | 4693. | 4664. | 4454. | 502.38 |  |
| + | HYDROGRAPH AT | 208    | 615.  | 39.00  | 609.  | 533.  | 277.  | 10.57  |  |
| + | 2 COMBINED AT | Com11B | 4708. | 102.00 | 4706. | 4677. | 4479. | 512.95 |  |
| + | ROUTED TO     | Rt12   | 4643. | 112.00 | 4642. | 4618. | 4450. | 512.95 |  |
| + | HYDROGRAPH AT | 185    | 388.  | 31.00  | 380.  | 295.  | 127.  | 4.69   |  |
| + | 2 COMBINED AT | Com12  | 4643. | 112.00 | 4642. | 4618. | 4451. | 517.64 |  |
| + | ROUTED TO     | Rt13   | 4638. | 116.00 | 4636. | 4613. | 4447. | 517.64 |  |
| + | HYDROGRAPH AT | 168    | 454.  | 38.00  | 449.  | 391.  | 202.  | 9.60   |  |
| + | 2 COMBINED AT | Com13A | 4641. | 116.00 | 4640. | 4617. | 4456. | 527.24 |  |
| + | HYDROGRAPH AT | 158    | 789.  | 52.00  | 787.  | 740.  | 488.  | 25.08  |  |
| + | 2 COMBINED AT | Com13B | 5263. | 46.00  | 5249. | 5084. | 4764. | 552.32 |  |
| + | ROUTED TO     | Rt14   | 4795. | 60.00  | 4791. | 4749. | 4663. | 552.32 |  |
| + | HYDROGRAPH AT | 138    | 644.  | 48.00  | 641.  | 595.  | 369.  | 19.76  |  |
| + | 2 COMBINED AT | Com14A | 5335. | 56.00  | 5327. | 5221. | 4908. | 572.08 |  |
| + | HYDROGRAPH AT | 148    | 551.  | 37.00  | 545.  | 471.  | 239.  | 9.53   |  |
| + | 2 COMBINED AT | Com14B | 5577. | 53.00  | 5569. | 5455. | 5032. | 581.61 |  |
| + | ROUTED TO     | Rt15   | 5365. | 63.00  | 5357. | 5272. | 4962. | 581.61 |  |
| + | HYDROGRAPH AT | 118    | 887.  | 26.00  | 855.  | 584.  | 223.  | 8.20   |  |
| + | 2 COMBINED AT | Com15  | 5378. | 63.00  | 5371. | 5286. | 4971. | 589.81 |  |

| ÷ | ROUTED TO     | Rt16   | 5147. | 76.00 | 5143. | 5097. | 4905. | 589.81 |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|
| + | HYDROGRAPH AT | 7s     | 968.  | 53.00 | 965.  | 914.  | 619.  | 29.41  |
| + | 2 COMBINED AT | Com16  | 5813. | 68.00 | 5805. | 5711. | 5314. | 619.22 |
| + | ROUTED TO     | Rt17   | 5793. | 71.00 | 5785. | 5696. | 5307. | 619.22 |
| + | HYDROGRAPH AT | 6S     | 1101. | 27.00 | 1068. | 744.  | 290.  | 9.21   |
| + | 2 COMBINED AT | Com17  | 5802. | 71.00 | 5794. | 5705. | 5318. | 628.43 |
| + | ROUTED TO     | Rt18   | 5748. | 76.00 | 5742. | 5664. | 5304. | 628.43 |
| + | HYDROGRAPH AT | 48     | 1698. | 34.00 | 1669. | 1379. | 644.  | 22.35  |
| + | 2 COMBINED AT | Com18A | 5837. | 74.00 | 5831. | 5758. | 5458. | 650.78 |
| + | HYDROGRAPH AT | 3\$    | 553.  | 30.00 | 540.  | 413.  | 175.  | 4.49   |
| + | 2 COMBINED AT | Com18B | 5848. | 74.00 | 5842. | 5771. | 5547. | 655.27 |
| + | ROUTED TO     | Rt19   | 5844. | 75.00 | 5838. | 5768. | 5542. | 655.27 |
| + | HYDROGRAPH AT | 28     | 1018. | 23.00 | 971.  | 594.  | 214.  | 5.35   |
| + | 2 COMBINED AT | Com19A | 5868. | 36.00 | 5838. | 5768. | 5584. | 660.62 |
| + | HYDROGRAPH AT | 1\$    | 664.  | 35.00 | 654.  | 547.  | 260.  | 7.47   |
| + | 2 COMBINED AT | Com19B | 6522. | 36.00 | 6466. | 6021. | 5785. | 668.09 |

### SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAO ELEMENT DT PEAK TIME TO VOLUME DΤ VOLUME PEAK TIME TO PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) 60.00 175.66 4380.00 1.08 60.00 175.66 4380.00 1.08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1056E+04 EXCESS=0.0000E+00 OUTFLOW=0.1056E+04 BASIN STORAGE=0.1018E-01 PERCENT ERROR= 0.0 2R MANE 60.00 327.51 2460.00 1.18 60.00 327.51 2460.00 1.18 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1777E+04 EXCESS=0.0000E+00 OUTFLOW=0.1776E+04 BASIN STORAGE=0.3912E-01 PERCENT ERROR= 0.0 3R MANE 60.00 1329.41 3120.00 1.48 60.00 1329.41 3120.00 1.48 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7334E+04 EXCESS=0.0000E+00 OUTFLOW=0.7333E+04 BASIN STORAGE=0.3812E-01 PERCENT ERROR= 0.0 3R MANE 60.00 183.40 2520.00 1.68 60.00 183.40 25,20.00 1.68 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5506E+03 EXCESS=0.0000E+00 OUTFLOW=0.5498E+03 BASIN STORAGE=0.5648E-02 PERCENT ERROR= 0.1 SAROUT MANE 48 00 1081.04 4272.00 2.44 60.00 1080.84 4260.00 2.44 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5000E+04 EXCESS=0.0000E+00 OUTFLOW=0.5004E+04 BASIN STORAGE=0.4968E+00 PERCENT ERROR= -0.160.00 60.00 1087.03 4680.00 2.20 1087.03 4680.00 2.20 5A1RT MANE CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5164E+04 EXCESS=0.0000E+00 OUTFLOW=0.5163E+04 BASIN STORAGE=0.2022E+01 PERCENT ERROR= 0.0 33.00 3960.00 1.80 60.00 1011.01 3960.00 1.80 4 AROUT MANE 1011.01 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2946E+04 EXCESS=0.0000E+00 OUTFLOW=0.2946E+04 BASIN STORAGE=0.1572E+00 PERCENT ERROR= 0.0 4A1ROU MANE 18.00 1009,21 4140.00 1.89 60.00 1009.21 4140.00 1.89 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3835E+04 EXCESS=0.0000E+00 OUTFLOW=0.3834E+04 BASIN STORAGE=0.2044E+00 PERCENT ERROR= 0.0 4AABRT MANE 1147.06 1932.00 1.88 60.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4351E+04 EXCESS=0.0000E+00 OUTFLOW=0.4354E+04 BASIN STORAGE=0.8935E+00 PERCENT ERROR= ~0 1 60.00 653.28 4200.00 3.67 60.00 653,28 4200.00 3.67 1BR MANE CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3916E+04 EXCESS=0.0000E+00 OUTFLOW=0.3915E+04 BASIN STORAGE=0.1222E-01 PERCENT ERROR= 0.0 2BR MANE 55.76 1444.76 3847.22 2.99 60.00 1444.66 3840.00 2.99 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8628E+04 EXCESS=0.0000E+00 OUTFLOW=0.8628E+04 BASIN STORAGE=0.1752E-01 PERCENT ERROR= 0.0 3BR MANE 39.45 2002,20 4023.79 3.00 60,00 2002,15 4020.00 3.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1268E+05 EXCESS=0.0000E+00 OUTFLOW=0.1268E+05 BASIN STORAGE=0.3467E+00 PERCENT ERROR= 0.0

|            | 4BR        | MANE    | 47.96      | 2471.53   | 3884.43      | 3.13         | 60.00     | 2471.30     | 3900.00    | 3.13                    |     |
|------------|------------|---------|------------|-----------|--------------|--------------|-----------|-------------|------------|-------------------------|-----|
| CONTINUITY | SUMMARY    | (AC-FT) | - INFLOW=0 | .1511E+05 | EXCESS=0.000 | OE+00 OUTFLO | W=0.1513  | LE+05 BASIN | STORAGE=0. | 4858E+00 PERCENT ERROR= | 0.0 |
|            | 8BR        | MANE    | 60.00      | 2977.54   | 4080.00      | 3.26         | 60.00     | 2977.54     | 4080.00    | 3.26                    |     |
| CONTINUITY | SUMMARY    | (AC-FT) | - INFLOW=0 | .1950E+05 | EXCESS=0.000 | 0E+00 OUTFLO | )W=0.1950 | E+05 BASIN  | STORAGE=0. | 1450E+01 PERCENT ERROR= | 0.0 |
|            | 9 <b>R</b> | MANE    | 60.00      | 6582.95   | 4740.00      | 2.51         | 60.00     | 6582.95     | 4740.00    | 2.51                    |     |
| CONTINUITY | SUMMARY    | (AC-FT) | - INFLOW=0 | .5756E+05 | EXCESS=0.000 | 0E+00 OUTFLO | OW≃0.5755 | 5E+05 BASIN | STORAGE=0. | 2051E+02 PERCENT ERROR= | 0.0 |

## SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

|   | PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>135               | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|---|------|---|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      |   | 1.00               |                                  |                              |                             | 1081.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      |   | 1.00               |                                  |                              |                             | 1088.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      |   | 1.00               |                                  |                              |                             | 1012.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               | .00<br>0.<br>0.             | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      |   | 1.00               |                                  |                              |                             | 1010.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 | • • • • • • • •    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               | . VALUE<br>0.00<br>0.<br>0. | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00               | 114.19                           | 0.54                         | 397.                        | 1180.                                 | 106.00                        | 30.00                              | 0.00                        |

# HEC-1 MODEL REVISED EXISTING CONDITIONS

**500-YEAR MODEL** 

**NORTH MAIN** 

\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*

\* MAY 1991 \*

\* VERSION 4.0.1E \*

\* Lahey F77L-EM/32 version 5.01 \*

Dodson & Associates, Inc. \*

\* RUN DATE 05/08/01 TIME 10:50:44 \*

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| Х   | Х    | XXXXXXX | XX | XXX |       | Х   |
|-----|------|---------|----|-----|-------|-----|
| X   | X    | X       | X  | X   |       | XX  |
| X   | X    | X       | X  |     |       | Х   |
| XXX | XXXX | XXXX    | X  |     | XXXXX | X   |
| Х   | X    | X       | X  |     |       | X   |
| X   | Х    | X       | X  | X   |       | X   |
| x   | x    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

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ID.....1.....2......3.....4.....5......6.....7.....8......9.....10
LINE
                 Hidalgo County Flood Insurance Study
                 Job No. 11-00389-002
                 File Name: NM500re.DAT
                                        Revised Existing Conditions
             * HEC-1 model for the North-West main drain area
             * revised rainfall from USGS report 98-4044
             * REVISED CN TYPE I ANTECEDANT
              REVISED LAG BASED ON REVISED ON I
             * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
              ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
             * SEE SFREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFTED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
                 West Main drain area
  2
                  500-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  3
                    60 1JAN01
                                  0
                                       300
             IO
                    5
             * *******************
             * Start calculating hydrograph for the sub water sheds
             * that drain to the West Main drain.
                 SC-7A SUBWATER SHED
             KK
  6
                 Compute hydrograph for sub-water shed SC-7A
             KM
             BA
                 18.4
  8
             PH
                  0.2
                                              6.21
                                                   7.66
                                                            8.83 10.75 12.35 13.23
                 5.721
             LS
 10
                  53.5
             ŪD
             * *************
 11
            KK
 12
             КМ
                 Route hydrograph from head water to node 1 using Muskingum-Cunge Method
 13
             RD
 14
            RC
                  0.08
                         0.03
                                0.08
                                      19200 0.0002
                                                      217
 15
            RX
                  1000
                         2500
                                2917
                                      2994
                                             3005
                                                     3061
                                                            4500
                                                                   5000
 16
            RY
                 203.5
                        202.0
                               204.4
                                     191.53 191.53
                                                    204.5
                                                           199.9
                                                                  199.0
 17
                 SC-7B SUBWATER SHED
            KK
                 Compute hydrograph for sub-water shed SC-7B
 18
            KM
 19
            BA
                 9.82
 20
                 5.282
            LS
                  20.1
            UD
              *******
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RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|    | OPERATION                    | CMA DT ON | PEAK  | TIME OF | AVERAGE | FLOW FOR MAX | IMUM PERIOD   | BASIN  | MAXIMUM | TIME OF   |
|----|------------------------------|-----------|-------|---------|---------|--------------|---------------|--------|---------|-----------|
| +  | OPERATION                    | STATION   | FLOW  | PEAK    | 6-HOUR  | 24-HOUR      | 72-HOUR       | AREA   | STAGE   | MAX STAGE |
| +  | HYDROGRAPH AT                | SC-7A     | 615.  | 68.00   | 614.    | 598.         | 473.          | 18.40  |         |           |
| +  | ROUTED TO                    | 1R        | 614.  | 71.00   | 613.    | 596.         | 473.          | 18.40  |         |           |
| +  | HYDROGRAPH AT                | SC-7B     | 939.  | 35.00   | 925.    | 771.         | 365.          | 9.82   |         |           |
| +  | 2 COMBINED AT                | 1C        | 1080. | 36.00   | 1072.   | 970.         | 760.          | 28.22  |         |           |
| +  | ROUTED TO                    | 2R        | 1059. | 43.00   | 1053.   | 963.         | 756.          | 28.22  |         |           |
| +  | HYDROGRAPH AT                | SC-7C     | 1667. | 42.00   | 1654.   | 1492.        | 838.          | 23.00  |         |           |
| +  | HYDROGRAPH AT  3 COMBINED AT | SC-6A     | 1773. | 65.00   | 1771.   | 1717.        | 1327.         | 41.66  |         |           |
| +  | ROUTED TO                    | 2C        | 3910. | 47.00   | 3889.   | 3680.        | 2849.         | 92.88  |         |           |
| +  | HYDROGRAPH AT                | 3R        | 3859. | 53.00   | 3843.   | 3654.        | 2841.         | 92.88  |         |           |
| +  | HYDROGRAPH AT                | SC-6B     | 967.  | 37.00   | 956.    | 824.         | 414.          | 6.58   |         |           |
| +  | ROUTED TO                    | SC-7D     | 515.  | 40.00   | 511.    |              | 245.          | 6.15   |         |           |
| +  |                              | 3R        | 507.  | 41.00   | 502.    | 447_         | 244.          | 6.15   |         |           |
| +  | 3 COMBINED AT                | 3C        | 4804. | 48.00   | 4783.   | 4517.        | 3425.         | 105.61 |         |           |
| +  | ROUTED TO HYDROGRAPH AT      | 4R        | 4288. | 59.00   | 4276.   | 4123.        | 3315.         | 105.61 |         |           |
| +  | ROUTED TO                    | SC5A      | 2193. | 65.00   | 2190.   | 2125.        | 1649.         | 38.43  |         |           |
| +  | Noores to                    | 5ACANA    | 2190. | 67.00   | 2187.   | 2121.        | 1587.         | 38.43  | 141.13  | 67.00     |
| +  | ROUTED TO                    | 5AROUT    | 2191. | 69.00   | 2187.   | 2121.        | 1585.         | 38.43  |         |           |
| +  | HYDROGRAPH AT                | SC5A1     | 1206. | 29.00   | 1176.   | 871.         | 357.          | 5.64   |         |           |
| +  | 2 COMBINED AT                | 5AA1      | 2218. | 67.00   | 2215.   | 2155.        | 1612.         | 44.07  |         |           |
| ++ | ROUTED TO                    | 5A1CAN    | 2217. | 68.00   | 2214.   | 2154.        | 1606.         | 44.07  | 117.30  | 68.00     |
| +  | ROUTED TO                    | 5A1RT     | 2217. | 72.00   | 2213.   | 2153.        | 1602.         | 44.07  |         |           |
| +  | HYDROGRAPH AT                | SC5B      | 1984. | 27.00   | 1923.   | 1342.        | 52 <b>4</b> . | 9.02   |         |           |
| +  | 2 COMBINED AT                | 4C1       | 2231. | 71.00   | 2228.   | 2169.        | 1655.         | 53.09  |         |           |

| +   | HYDROGRAPH AT | SC-4A  | 2429.  | 51.00  | 2422.  | 2287.  | 1525. | 30.73  |        |       |
|-----|---------------|--------|--------|--------|--------|--------|-------|--------|--------|-------|
| +   | ROUTED TO     | 4ACANA | 2399.  | 55.00  | 2382.  | 2168.  | 1250. | 30.73  | 172.70 | 55,00 |
| +   | ROUTED TO     | 4AROUT | 2399.  | 56.00  | 2381.  | 2164.  | 1248. | 30.73  |        |       |
| +   | HYDROGRAPH AT | SC-4A1 | 1978.  | 24.00  | 1899.  | 1215.  | 448.  | 7.34   |        |       |
| +   | 2 COMBINED AT | SC4AA1 | 2435.  | 56.00  | 2418.  | 2194.  | 1470. | 38.07  |        |       |
| +   | ROUTED TO     | 4A1CAN | 2431.  | 56.00  | 2414.  | 2190.  | 1437. | 38.07  | 141.34 | 56.00 |
| +   | ROUTED TO     | 4A1ROU | 2429.  | 58.00  | 2413.  | 2187.  | 1432. | 38.07  |        |       |
| +   | HYDROGRAPH AT | SC-4B  | 1961.  | 20.00  | 1782.  | 870.   | 296.  | 5.44   |        |       |
| +   | 2 COMBINED AT | SC4AAB | 3037.  | 25.00  | 2585.  | 2187.  | 1617. | 43.51  |        |       |
| + + | ROUTED TO     | 4BCANA | 3043.  | 26.00  | 2558.  | 2185.  | 1599. | 43.51  | 114.67 | 26.00 |
| +   | ROUTED TO     | 4AABRT | 2873.  | 28.00  | 2545.  | 2177.  | 1594. | 43.51  |        |       |
| +   | HYDROGRAPH AT | SC-4B1 | 1436.  | 26.00  | 1385.  | 937.   | 358.  | 6.07   |        |       |
| +   | 2 COMBINED AT | SC-4   | 4249.  | 27.00  | 3822.  | 2510.  | 1911. | 49.58  |        |       |
| +   | 3 COMBINED AT | 4C2    | 8788.  | 61.00  | 8750.  | 8195.  | 6657. | 208.28 |        |       |
| +   | ROUTED TO     | 5R     | 7553.  | 77.00  | 7541.  | 7374.  | 6208. | 208,28 |        |       |
| +   | HYDROGRAPH AT | SC-3   | 2698.  | 76.00  | 2695.  | 2645.  | 2224. | 56.44  |        |       |
| +   | 2 COMBINED AT | 5C     | 10250. | 76.00  | 10236. | 10019. | 8414. | 264.72 |        |       |
| +   | ROUTED TO     | 6R     | 9211.  | 100.00 | 9202.  | 9082.  | 7945. | 264.72 |        |       |
| +   | HYDROGRAPH AT | SC-3A  | 334.   | 72.00  | 334.   | 326.   | 268.  | 5.87   |        |       |
| +   | HYDROGRAPH AT | SC-3B  | 556.   | 49.00  | 554.   | 518.   | 330.  | 6.71   |        |       |
| +   | 3 COMBINED AT | 6C     | 9537.  | 98.00  | 9528.  | 9409.  | 8283. | 277.30 |        |       |
| +   | ROUTED TO     | 7R     | 9381.  | 105.00 | 9373.  | 9259.  | 8188. | 277.30 |        |       |
| +   | HYDROGRAPH AT | SC-2   | 412.   | 71.00  | 412.   | 402.   | 326.  | 11.48  |        |       |
| +   | 2 COMBINED AT | 7C     | 9620.  | 104.00 | 9612.  | 9502.  | 8433. | 288.78 |        |       |
| +   | ROUTED TO     | 8R     | 9271.  | 120.00 | 9262.  | 9129.  | 8170. | 288.78 |        |       |
| +   | HYDROGRAPH AT | SC-1   | 648.   | 52.00  | 647.   | 613.   | 417.  | 7.07   |        |       |

| + | 2 COMBINED AT | 8C1   | 9328.  | 120.00 | 9319.  | 9188.  | 8248.  | 295.85 |
|---|---------------|-------|--------|--------|--------|--------|--------|--------|
| + | HYDROGRAPH AT | SC-8  | 1229.  | 67.00  | 1227.  | 1194.  | 946.   | 19.99  |
| + | ROUTED TO     | 1BR   | 1228.  | 70.00  | 1226.  | 1193.  | 945.   | 19.99  |
|   | HYDROGRAPH AT |       |        |        |        |        |        |        |
| + | 2 COMBINED AT | SM-18 | 1175.  | 70.00  | 1174.  | 1145.  | 922.   | 27.11  |
| + | HYDROGRAPH AT | 1BC1  | 2403.  | 70.00  | 2400.  | 2338.  | 1867.  | 47.10  |
| + |               | SM-17 | 729.   | 50.00  | 726.   | 684.   | 449.   | 7.03   |
| + | 2 COMBINED AT | 1BC2  | 2941.  | 63.00  | 2932.  | 2840.  | 2268.  | 54.13  |
| + | ROUTED TO     | 2BR   | 2940.  | 64.00  | 2931.  | 2840.  | 2268.  | 54.13  |
| + | HYDROGRAPH AT | SM-16 | 1199.  | 75.00  | 1198.  | 1174.  | 980.   | 25.18  |
| + | 2 COMBINED AT | 2BC   | 4084.  | 67.00  | 4076.  | 3965.  | 3231.  | 79.31  |
| + | ROUTED TO     | 3BR   | 4082.  | 68.00  | 4073.  | 3963.  | 3230.  | 79.31  |
| + | HYDROGRAPH AT | SM-15 | 963.   | 54.00  | 961.   | 915.   | 638.   | 11.10  |
| + | 2 COMBINED AT | звс   | 4913.  | 65.00  | 4901.  | 4754.  | 3830.  | 90.41  |
| 1 | ROUTED TO     | 4BR   | 4854.  | 69.00  | 4843.  | 4711.  | 3817.  | 90.41  |
| + | HYDROGRAPH AT | SM-14 | 1056.  | 82.00  | 1055.  | 1039.  | 900.   | 21.60  |
| + | 2 COMBINED AT | 4BC   | 5843.  | 71.00  | 5833.  | 5679.  | 4668.  | 112.01 |
| + | ROUTED TO     | 8BR   | 5841.  | 71.00  | 5830.  | 5677.  | 4667.  | 112.01 |
| + | HYDROGRAPH AT | SM-13 | 704.   | 88.00  | 703.   | 694.   | 613.   | 22.25  |
| + | 2 COMBINED AT | 8C1   | 6480.  | 73.00  | 6469.  | 6304.  | 5235.  | 134.26 |
| + | 2 COMBINED AT | 8C2   | 12941. | 100.00 | 12932. | 12832. | 12150. | 430.11 |
| + | ROUTED TO     | 9R    | 12900. | 107.00 | 12893. | 12802. | 12119. | 430.11 |
| + | HYDROGRAPH AT | 29\$  | 1331.  | 41.00  | 1320.  | 1176.  | 638.   | 12.28  |
| + | 2 COMBINED AT | Com9A | 12932. | 107.00 | 12925. | 12836. | 12188. | 442.39 |
| + | HYDROGRAPH AT | 28S   | 1901.  | 53.00  | 1897.  | 1797.  | 1220.  | 25.91  |
| + | 2 COMBINED AT | Com9B | 13242. | 104.00 | 13236. | 13164. | 12693. | 468.30 |
| + | ROUTED TO     | Rt10  | 13140. | 111.00 | 13135. | 13067. | 12507. | 468.30 |
|   | DIVERSION TO  | DIV2  | 2000.  | 111.00 | 2000.  | 2000.  | 2000.  | 468.30 |

| + | HYDROGRAPH AT | DIV2   | 11140. | 111.00 | 11135 | 11067.    | 10508. | 468.30  |  |
|---|---------------|--------|--------|--------|-------|-----------|--------|---------|--|
| + | HYDROGRAPH AT | 27S    | 2303.  | 29.00  | 2247  | 1662.     | 679.   | 12.15   |  |
| + | 2 COMBINED AT | Com10A | 11140. | 111.00 | 11135 | 11067.    | 10510. | 480.45  |  |
| + | HYDROGRAPH AT | 26S    | 2171.  | 27.00  | 2110  | 1509.     | 598.   | 10.55   |  |
| + | HYDROGRAPH AT | 248    | 746.   | 29.00  | 728   | 538.      | . 220. | 3.83    |  |
| + | 3 COMBINED AT | Com10B | 11140. | 111.00 | 11135 | 11067.    | 10512. | 494.83  |  |
| + | ROUTED TO     | Rt11   | 11052. | 119.00 | 11047 | 10978.    | 10370. | 494.83  |  |
| + | HYDROGRAPH AT | 228    | 1089.  | 35.00  | 1074  | 898.      | 427.   | 7.55    |  |
| + | 2 COMBINED AT | Com11A | 11052. | 119.00 | 11047 | 10979.    | 10376. | 502.38  |  |
| + | HYDROGRAPH AT | 208    | 1266.  | 38.00  | 1254  | 1. 1098.  | 570.   | , 10.57 |  |
| + | 2 COMBINED AT | Com11B | 11062. | 118.00 | 11057 | . 10990.  | 10395. | 512.95  |  |
| + | ROUTED TO     | Rt12   | 11045. | 122.00 | 11040 | 10973.    | 10372. | 512.95  |  |
| + | HYDROGRAPH AT | 189    | 800.   | 30.00  | 785   | 608.      | 261.   | 4.69    |  |
| + | 2 COMBINED AT | Com12  | 11045. | 122.00 | 11040 | ). 10973. | 10372. | 517.64  |  |
| + | ROUTED TO     | Rt13   | 11041. | 123.00 | 11036 | 5. 10968. | 10363. | 517.64  |  |
| + | HYDROGRAPH AT | 165    | 1039.  | 38.00  | 1027  | 7. 895.   | 460.   | 9.60    |  |
| + | 2 COMBINED AT | Com13A | 11046. | 123.00 | 11041 | 10973.    | 10372. | 527.24  |  |
| + | HYDROGRAPH AT | 15S    | 1774.  | 51.00  | 1769  | 9. 1665.  | 1096.  | 25.08   |  |
| + | 2 COMBINED AT | Com13B | 11154. | 121.00 | 11150 | 11088.    | 10525. | 552.32  |  |
| + | ROUTED TO     | Rt14   | 11075. | 129.00 | 1107  | 1. 11005. | 10438. | 552.32  |  |
| + | HYDROGRAPH AT | 135    | 1504.  | 47.00  | 1497  | 7. 1389.  | 861.   | 19.76   |  |
| + | 2 COMBINED AT | Com14A | 11115. | 128.00 | 11110 | 11046.    | 10498. | 572.08  |  |
| + | HYDROGRAPH AT | 148    | 1161.  | 37.00  | 1148  | 3. 993.   | 503.   | 9.53    |  |
| + | 2 COMBINED AT | Com14B | 11116. | 128.00 | 1111  | 1. 11049. | 10505. | 581.61  |  |
| + | ROUTED TO     | Rt15   | 11080. | 133.00 | 1107  | 6. 11012. | 10478. | 581.61  |  |
| + | HYDROGRAPH AT | 118    | 1846.  | 26.00  | 178   | 0. 1207.  | 461.   | 8.20    |  |
| + | 2 COMBINED AT | Com15  | 11080. | 133.00 | 1107  | 6. 11012. | 10478. | 589.81  |  |

| + | ROUTED TO       | Rt16   | 11030. | 139.00 | 11026. | 10962. | 10444. | 589.81 |  |
|---|-----------------|--------|--------|--------|--------|--------|--------|--------|--|
| + | HYDROGRAPH AT   | 7s     | 2078.  | 53.00  | 2072.  | 1962.  | 1327.  | 29.41  |  |
| + | 2 COMBINED AT   | Com16  | 11410. | 65.00  | 11379. | 11046. | 10564. | 619.22 |  |
| + | ROUTED TO       | Rt17   | 10992. | 147.00 | 10988. | 10933. | 10532. | 619.22 |  |
| + | HYDROGRAPH AT   | 6S     | 2125.  | 27.00  | 2061.  | 1435.  | 558.   | 9.21   |  |
| + | 2 COMBINED AT   | Com17  | 10992. | 147.00 | 10988. | 10933. | 10532. | 628.43 |  |
| + | ROUTED TO       | Rt18   | 10969. | 152.00 | 10965. | 10911. | 10512. | 628.43 |  |
| + | HYDROGRAPH AT   |        |        | 34.00  | 3304.  | 2730.  | 1272.  | 22.35  |  |
| + | 2 COMBINED AT   |        |        | 152.00 |        |        |        | 650.78 |  |
|   | HYDROGRAPH AT   |        | 979.   |        | 958.   | 733.   | 310.   | 4.49   |  |
| + | 2 COMBINED AT   |        |        | 152.00 |        |        |        | •      |  |
| + | ROUTED TO       | Com18B |        |        |        |        |        |        |  |
| + | HYDROGRAPH AT   |        |        | 154.00 | 10960. |        |        |        |  |
| + | 2 COMBINED AT   |        | 1786.  |        |        | 1041.  | 376.   |        |  |
| + | HYDROGRAPH AT   | Com19A | 10964. | 154.00 |        |        |        |        |  |
| + | 2 COMBINED AT   | 18     |        | 34.00  | 1206.  |        |        |        |  |
| + | _ 0011011110111 | Com19B | 10964. | 154.00 | 10960. | 10906. | 10509. | 668.09 |  |

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAQ ELEMENT PEAK TIME TO VOLUME DTTIME TO PEAK VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) MANE 60.00 614.33 4260.00 1R 60.00 614.33 4260.00 3.76 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3685E+04 EXCESS=0.0000E+00 OUTFLOW=0.3686E+04 BASIN STORAGE=0.8150E-02 PERCENT ERROR= 0.0 2R MANE 60.00 1059.05 2580.00 3.91 60.00 1059.05 2580.00 3.91 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5883E+04 EXCESS=0.0000E+00 OUTFLOW=0.5889E+04 BASIN STORAGE=0.2276E-01 PERCENT ERROR= 3R MANE 60.00 3859.20 3180.00 4.26 60.00 3859.20 3180.00 4.26 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2114E+05 EXCESS=0.0000E+00 OUTFLOW=0.2111E+05 BASIN STORAGE=0.1006E+00 PERCENT ERROR= 0.1 3R MANE 60.00 506.73 2460.00 60.00 506.73 2460.00 4.60 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1509E+04 EXCESS=0.0000E+00 OUTFLOW=0.1507E+04 BASIN STORAGE=0.5237E-02 PERCENT ERROR= 5AROUT MANE 60.00 2190.54 4140.00 5 53 60.00 2190.54 4140.00 5.53 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1132E+05 EXCESS=0.0000E+00 OUTFLOW=0.1133E+05 BASIN STORAGE=0.6137E+00 PERCENT ERROR= 5A1RT 60.00 2216.61 4320.00 5.31 60.00 2216.61 4320.00 5.31 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1248E+05 EXCESS=0.0000E+00 OUTFLOW=0.1247E+05 BASIN STORAGE=0.2463E+01 PERCENT ERROR= 0.0 4AROUT 39.00 2399.22 3354.00 4.92 60.00 2398.84 3360.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8063E+04 EXCESS=0.0000E+00 OUTFLOW=0.8066E+04 BASIN STORAGE=0.1845E+00 PERCENT ERROR= 4A1ROU MANE 33.00 2431.12 3465.00 5.04 60.00 2429.39 3480.00 5.05 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1024E+05 EXCESS=0.0000E+00 OUTFLOW=0.1024E+05 BASIN STORAGE=0.2400E+00 PERCENT ERROR= -0.1 4AABRT MANE 15.00 2946.33 1650.00 60.00 2872.84 1680.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1168E+05 EXCESS=0.0000E+00 OUTFLOW=0.1169E+05 BASIN STORAGE=0.1024E+01 PERCENT ERROR= 1BR MANE 60.00 1227.69 4200.00 6.90 60.00 1227.69 4200 00 6.90 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7357E+04 EXCESS=0.0000E+00 OUTFLOW=0.7358E+04 BASIN STORAGE=0.1004E-01 PERCENT ERROR≠ 0.0 60.00 2BR 41.83 2940.39 3848.70 6.12 2940.11 3840.00 6.12 MANE CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1768E+05 EXCESS=0.0000E+00 OUTFLOW=0.1768E+05 BASIN STORAGE=0.2017E-01 PERCENT ERROR= 0.0 38.71 4081.91 4103.31 6.13 60.00 4081.65 3BR 4080.00 6.13 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2592E+05 EXCESS=0.0000E+00 OUTFLOW=0.2592E+05 BASIN STORAGE=0.6771E+00 PERCENT ERROR= 0.0

|              | 4BR    | MANE      | 50.47       | 4853.75    | 4138.44        | 6.27        | 60.00            | 4853.69     | 4140.00     | 6.27                    |     |
|--------------|--------|-----------|-------------|------------|----------------|-------------|------------------|-------------|-------------|-------------------------|-----|
| CONTINUITY S | UMMARY | (AC-FT) - | INFLOW=0.   | 3031E+05 E | EXCESS=0.0000E | E+00 OUTFLO | <b>₩</b> =0.3025 | E+05 BASIN  | STORAGE=0.9 | 655E+00 PERCENT ERROR=  | 0.2 |
|              | 8BR    | MANE      | 50.80       | 5841.50    | 4267.18        | 6.42        | 60.00            | 5840.95     | 4260.00     | 6.42                    |     |
| CONTINUITY S | UMMARY | (AC-FT)   | - INFLOW=0. | 3836E+05 I | EXCESS=0.0000  | E+00 OUTFLO | O₩=0.3836        | SE+05 BASIN | STORAGE=0.2 | 2689E+01 PERCENT ERROR= | 0.0 |
|              | 9R     | MANE      | 60.00       | 12900.26   | 6420.00        | 5.55        | 60.00            | 12900.26    | 6420.00     | 5.55                    |     |
| CONTINUITY S | UMMARY | (AC-FT)   | - INFLOW=0. | 1274E+06   | EXCESS=0.0000  | E+00 OUTFL  | OW=0.1272        | E+06 BASIN  | STORAGE=0.  | 4368E+02 PERCENT ERROR= | 0.1 |

# SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>135               | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|---|------|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 2190.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               |                             | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| L |      | 1.00               |                                  |                              |                             | 2217.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               |                             | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 2399.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      | 1.00               |                                  |                              |                             | 2431.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      | 1.00               | 114.67                           | 1.02                         | 443.                        | 3043.                                 | 135.00                        | 26.00                              | 0.00                        |

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### **HEC-1 MODEL**

# REVISED EXISTING CONDITIONS RAYMONDVILLE

25-YEAR MODEL

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| Х   | х    | XXXXXXX | XX | XXX |       | Х   |
|-----|------|---------|----|-----|-------|-----|
| Х   | X    | X       | Х  | X   |       | XX  |
| Х   | X    | X       | Х  |     |       | Х   |
| XXX | XXXX | XXXX    | Χ  |     | XXXXX | Х   |
| Х   | X    | X       | Х  |     |       | Х   |
| Х   | Х    | X       | X  | Х   |       | X   |
| Х   | Х    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
ID......1.....2.....3.....4.....5.....6......7.....8.....9.....10
LINE
                  Hidalgo County Flood Insurance Study
                  Job No. 11-00389-002
                  File Name: Ray25RE.DAT
                                           Revised Existing Conditions
             * revised rainfall from USGS report 98-4044
* REVISED CN TYPE I ANTECEDANT
              * REVISED LAG BASED ON REVISED ON I
             * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN

* ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
             * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
  1
2
             ID
                    25-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
                     60 1JAN01
5
             TT
                                 0 300
  3
             IO
             \star Start calculating hydrograph for the sub water sheds
             29aR SUB-WATER SHED
             KK
                  Compute hydrograph for 29aR
             KM
             ΒA
                   4.84
  7
                                                 3.61
                                                      4,29
                                                               4.65
                                                                       5.45
                                                                              6.22
                                                                                      6.62
  8
                  4.007
                            60
  9
                   21.9
 10
                   29R SUB-WATER SHED
             KK
 11
             KM
                  Compute hydrograph for 29R
 12
             BA
                  18.03
                            60
 13
             LS
                  4.517
 14
             UD
                  31.2
 15
             KK
                  Com21
                  Combine two hydrographs at Node 21
 16
             KM
 17
             HC
               ~
*******
 18
                  28aR SUB-WATER SHED
 19
                  Compute hydrograph for 28aR
 20
 21
             LS
                  5.536
                            60
 22
             UD
                  12.0
```

.

LINE ID.....1....2.....3.....4.....5.....6.....7.....8.....9.....10 23 ΚK 24 КМ Combine two hydrographs at Node 22 HC 2 25 · HC 26 KK Rt23 27 ΚM Route hydrograph to Node 23 28 RS STOR -1 0 880.95 2452.54 4345.49 6267.56 8472.52 29 SV 30 SQ 0 1000 2000 \* \*\*\*\*\*\*\*\* 3000 4000 5000 31 KK 24R SUB-WATER SHED 32 KM Compute hydrograph for 24R 33 BA 22.22 34 LS 4.088 60 35 UD 34.4 \*\*\*\*\*\* 36 KK Com23A 37 KM Combine two hydrographs at Node 23 38 HC 39 KK 28R SUB-WATER SHED 40 Compute hydrograph for 28R ва 4.68 7.319 42 43 \* Rt24 \* Route hydrograph to Node 24 \* 25000 0.0004 0.1 TRAP 40 2 44 25R SUB-WATER SHED 45 KM Compute hydrograph for 25R 46 BA 8.99 47 LS 4.347 UD 22.3 48 49 27R SUB-WATER SHED ΚK 50 51 ΚM Compute hydrograph for 27R ва 23.93 3.830 52 60 LS 34.1 \*\*\*\*\*\*\*\* 53 UD

| KK   Com24  | LINE | ID12345678910         |
|---|------|-----------------------|
| 55 KM Combine three hydrographs 56 HC 3  ***********************************  | 5.4  | KK Com24              |
| 56  |      |                       |
| 57 KK Rt25 58 RM Route hydrograph to Node 25 59 RD 37000 0.0004 0.1 TRAP 40 2  60 KK 22R SUB-WATER SHED 61 RM Compute hydrograph for 22R 62 BA 18.04 63 LS 2.632 61.9 64 UD 31.1  65 KK Com25 66 RM Combine two hydrographs at Node 25 67 HC 2  68 KK 19R SUB-WATER SHED 69 RM Compute hydrograph for 19R 70 BA 11.18 71 LS 4.714 60 72 UD 24.8 73 KK Com23B 74 RM Combine three hydrographs at Node 23 75 HC 3  76 KR Rt26A 77 RM Route hydrograph to La Sal Viejo diversion 78 Rt Rt 26A 79 SV 0 31.13 45.65 55.71 91.17 219.83 80 SQ 0 1000 2000 3000 4000 5000  81 KK DIV3 84 DI 0 70 293 1110 2080 3441 85 DQ 0 0 660 490 800 1025 |      |                       |
| Section   |      |                       |
| 80  |      | KK Rt25               |
| 60 KK 22R SUB-WATER SHED 61 KM Compute hydrograph for 22R 62 BA 18.04 63 LS 2.632 61.9 64 UD 31.1  **********************************   |      | · · · ·               |
| 61  | 59   |                       |
| 61  | 60   | KK 22D SIB-WATER SHED |
| 62 BA 18.04 63 LS 2.632 61.9 64 UD 31.1  **********************************   |      |                       |
| 63  |      | , . , .               |
| 64 UD 31.1  **********************************  |      |                       |
| 65 KK Com25 66 KM Combine two hydrographs at Node 25 67 HC 2  ***********************************   |      |                       |
| 66 KM Combine two hydrographs at Node 25 67 HC 2  ***********************************   |      |                       |
| 67 HC 2  * *********************************  | 65   | KK Com25              |
| 68 KK 19R SUB-WATER SHED 69 KM Compute hydrograph for 19R 70 BA 11.18 71 LS 4.714 60 72 UD 24.8  ***********************************  |      |                       |
| 69  | 67   |                       |
| 69 KM Compute hydrograph for 19R 70 BA 11.18 71 LS 4.714 60 72 UD 24.8  ***********************************   | 68   | KK 19R SUB-WATER SHED |
| 70 BA 11.18 71 LS 4.714 60 72 UD 24.8 ************************************  | 69   |                       |
| 72 UD 24.8  * **********************************  | 70   |                       |
| * ************************************  | 71   | LS 4.714 60           |
| 73 KK Com23B 74 KM Combine three hydrographs at Node 23 75 HC 3  ***********************************  | 72   | UD 24.8               |
| 74  |      | * ************        |
| 75  |      |                       |
| 76 KK Rt26A 77 KM Route hydrograph to La Sal Viejo diversion  * 1 1  78 RS 1 STOR -1  79 SV 0 31.13 45.65 55.71 91.17 219.83  80 SQ 0 1000 2000 3000 4000 5000  * ****************************  |      |                       |
| 77  KM Route hydrograph to La Sal Viejo diversion  * 1  | /5   |                       |
| 77  KM Route hydrograph to La Sal Viejo diversion  * 1  | 76   | KK Rt26A              |
| * 1 1 78 RS 1 STOR -1 79 SV 0 31.13 45.65 55.71 91.17 219.83 80 SQ 0 1000 2000 3000 4000 5000  * ****************************   |      |                       |
| 78 RS 1 STOR -1 79 SV 0 31.13 45.65 55.71 91.17 219.83 80 SQ 0 1000 2000 3000 4000 5000  * ****************************   |      |                       |
| 79 SV 0 31.13 45.65 55.71 91.17 219.83 80 SQ 0 1000 2000 3000 4000 5000  * ****************************   | 78   |                       |
| 80 SQ 0 1000 2000 3000 4000 5000  * ****************************  |      |                       |
| 81 KK DIV3 82 KM Diversion to La Sal Viejo . 83 DT DIV3 84 DI 0 70 293 1110 2080 3441 85 DQ 0 0 60 490 800 1025   | 80   |                       |
| 82 KM Diversion to La Sal Viejo .<br>83 DT DIV3<br>84 DI 0 70 293 1110 2080 3441<br>85 DQ 0 0 60 490 800 1025   |      | * ***********         |
| 83 DT DIV3<br>84 DI 0 70 293 1110 2080 3441<br>85 DQ 0 0 60 490 800 1025  |      |                       |
| 84 DI 0 70 293 1110 2080 3441<br>85 DQ 0 0 60 490 800 1025  |      |                       |
| 85 DQ 0 0 60 490 800 1025   |      |                       |
|   |      |                       |
|   | 85   |                       |

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LINE
             ID.....1....2....3....4....5....6.....7....8....9....10
                 Rt26B
 87
             КМ
                  Route hydrograph to Node 26
 88
             RS
                    1
                          STOR
                                   -1
             SV 0 196.89 297.78 546.45 982.63 1367.28 SQ 0 1000 2000 3000 4000 5000
 89
 90
             KK
                 20R SUB-WATER SHED
 91
                 Compute hydrograph for 20R
             KM
 92
             BA
                  18.78
 93
                 2.990
                        62.13
             LS
 94
             UD 20.6
 95
             KK
                 Com26
 97
             KM
                 Combine two hydrographs
 98
                DIV4
                 Diversion to southern tributary of main Raymondville channel
             * DIV4

* 0 8000 10000

* 0 50 50
 99
                  Rt27A
 100
             KM
                  Route hydrograph to Node 27
                   1 1
1 STOR
             RS
 101
             SV 0 1348.58 4980.12 8035.27 10783.8 14313.8 SQ 0 1000 2000 3000 4000 5000
 102
103
 104
             KK
                  13R SUB-WATER SHED
 105
              ΚM
                  Compute hydrograph for 13R
 106
                  11.50
 107
                 3.032
             UD 16.3
 108
 109
              KK Com27A
                Combine two hydrographs at Node 27
 110
             KM
              HC
               2
 111
```

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LINE
              ID......1......2......3.....4......5.....6......7.....8.....9.....10
              KK
 112
                   14R SUB-WATER SHED
 113
               KM
                   Compute hydrograph for 14R
 114
               BA
                    9.24
 115
               LS
                   3.521
                           64.26
               UD 22.6
 116
                  Соп
               * Combine two hydrographs
               * 2
* **************
 117
               KK
                   Rt27B
 118
               KM Route hydrograph to Node 27
                   1 stor
 119
               RS
                                      -1
               SV 0 118.49 170.85 226.03 273.73 485.95 500.0 SQ 0 48.6 83.88 129.49 173.38 228.78 20000.0
               sv
 120
 121
               SQ
 122
               KK Com27B
 123
               {\rm KM} Combine two hydrographs at Node 27
              HC 2 ***************
 124
 125
               KΚ
                    Rt28
 126
               KM
                   Route hydrograph to Node 28
                    1 1 1 1 1 STOR 0 312.83
 127
               RS
                                      -1
               SV 0 312.83 999.33 1918.42 2687.59 3301.82
SQ 0 1000 2000 3000 4000 5000
 128
 129
 130
               KK
                   11R SUB-WATER SHED
 131
               KM
                   Compute hydrograph for 11R
 132
                   10.09
               BA
                 3.768
 133
               LS
                           61.13
 134
               UD
                11.0
********
 135
               KK Com28A
 136
              \ensuremath{\mathsf{KM}} \, Combine two hydrographs at Node 28
 137
               HC
                    2
 138
              KK
                    8R SUB-WATER SHED
 139
              KM Compute hydrograph for 8R
              BA 11.62
LS 5.671
 140
                           60.76
 141
               UD 11.8
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LINE ID......1.....2.....3.....4.....5.....6......7....8.....9......10 143 KK Com28B KM Combine two hydrographs at Node 28 HC 2 145 146 KK Rt29 147 Route hydrograph to Node 29 \* 1 1

RS 1 STOR -1

SV 0 449.95 1513.48 2080.16 2620.81 3076.31

SQ 0 1000 2000 3000 4000 5000 148 149 150 10R SUB-WATER SHED 151 KK Compute hydrograph for 10R 152 KM 153 BA 21.47 ⊒S UD \* 154 2.724 60 155 Com29 156 KK Combine two hydrographs at Node 29 KM 157 158 HС 159 KK Rt30 Route hydrograph to Node 30 160 KM \* 1 1

RS 1 STOR -1

SV 0 208.42 1163.8 1980.35 2627.06 3136.14

SQ 0 1000 2000 3000 4000 5000 161 162 163 KK 6R SUB-WATER SHED 164 KM Compute hydrograph for 6R BA 16.37 LS 3.175 60 165 166 167 UD 28.0 168 KK Com30A 169 KM Combine two hydrographs at Node 30 170 171 4R SUB-WATER SHED 172 KK 173 KIM Compute hydrograph for 4R 174 BA 4.73 175 LS 2.992 60 UD 15.9 176

| LINE | ID      | 12345678910                              |
|------|---------|--|
| 177  | KK      | Com30B                                   |
| 178  | KM      | Combine two hydrographs at Node 30       |
| 179  | HC      | 2  |
| 1,5  |         |  |
| 180  | кк      | Rt31                                     |
| 181  | KM<br>* | Route hydrograph to Node 31<br>1 1       |
| 182  | RS      | 1 STOR -1                                |
| 183  | sv      | 0 555.09 2027.13 2913.81 3589.64 4070.74 |
| 184  | SO      | 0 1000 2000 3000 4000 5000               |
|      |         | ************                             |
| 185  | KK      | 2R SUB-WATER SHED                        |
| 186  | KM      | Compute hydrograph for 2R                |
| 187  | BA      | 5.58                                     |
| 188  | LS      | 1.806 60                                 |
| 189  | UD      | 11.4                                     |
|      | * *     | *************                            |
| 190  | KK      | Com31A                                   |
| 191  | KM      | Combine two hydrographs at Node 31       |
| 192  | HC      | 2  |
|      |         | ***********                              |
| 193  | ĸĸ      | 3R SUB-WATER SHED                        |
| 194  | KM      | Compute hydrograph for 3R                |
| 195  | BA      | 4.47                                     |
| 196  | LS      | 2.472 60                                 |
| 197  | ŨD      | 13.8                                     |
|      | * *     | **********                               |
| 198  | KK      | Com31B                                   |
| 199  | KM      | Combine two hydrographs at Node 31       |
| 200  | НC      | 2  |
|      | * *     | ***********                              |
| 201  | KK      | Rt32                                     |
| 202  | KM<br>⋆ | Route hydrograph to Node 32              |
| 203  | RS      | 1 STOR -1                                |
| 204  | SV      | 0 1067.34 3337.22 4909 6271.22 7335.81   |
| 205  | SQ      | 0 1000 2000 3000 4000 5000               |
|      | * *     | *************                            |
| 206  | KK      | 1R SUB-WATER SHED                        |
| 207  | KM      | Compute hydrograph for 1R                |
| 208  | BA      | 16.89                                    |
| 209  | LS      | 1.395 60                                 |
| 210  | συ      | 19.6                                     |
|      | * *     | **********                               |

|      | HEC-1 INPUT   |
|------|---|
| LINE | ID12345678910   |
| 211  | KK Com32  |
| 212  | KM Combine two hydrographs at Node 32                       |
| 213  | HC 2  |
|      | * **********  |
| 214  | KK DIA3   |
| 215  | KM Diversion from Raymondville main channel to La Sal Viejo |
| 216  | DR DIV3   |
|      | * *********   |
| 217  | KK 17R SUB-WATER SHED                                       |
| 218  | KM Compute hydrograph for 17R                               |
| 219  | BA 6.47   |
| 220  | LS 2.955 60   |
| 221  | UD 19.1   |
|      | * *********   |
| 222  | KK Com33A   |
| 223  | KM Combine two hydrographs at La Sal Viejo                  |
| 224  | HC 2  |
|      | * ************  |
| 225  | KK 23R SUB-WATER SHED                                       |
| 226  | KM Compute hydrograph for 23R                               |
| 227  | BA 94.54  |
| 228  | LS 2.901 60   |
| 229  | UD 68.9   |
|      | * **********  |
| 230  | KK Com33B   |
| 231  | KM Combine two hydrographs at La Sal Viejo                  |
| 232  | HC 2  |
|      | * **********  |
| 233  | KK LSV  |
| 234  | KM Route hydrograph through La Sal Viejo                    |
|      | * 1 1   |
| 235  | RS 1 STOR -1  |
| 236  | sv 0 1690 4532 9730 17040 18480 19000                       |
| 237  | SQ 0 163 465 825 1230 1490 1550                             |
| 238  | * ************************************                      |
| 230  | <del></del>   |

```
SCHEMATIC DIAGRAM OF STREAM NETWORK
INPUT
LINE
          (V) ROUTING
                              (--->) DIVERSION OR PUMP FLOW
 NO.
          (.) CONNECTOR
                              (<---) RETURN OF DIVERTED OR PUMPED FLOW
  10
                        29R
  15
           Com21.....
  18
                      28aR
  23
           Com22...
  26
           Rt23
  31
                      24R
  36
          Com23A.....
  39
                      28R
                                  25R
                                             27R
 54
                      Com24
 57
                       Rt25
 60
                                 22R
 65
                      Com25.
 68
                                 19R
 73
         Com23B.....
 76
          Rt26A
 83
                          DIV3
 81
           DIA3
 86
          Rt26B
 91
                     20R
 96
          Com26...
 99
          Rt27A
104
                      13R
```

Com27A.....

| 2          |              | 14R                                     | .,     |      |  |   |
|------------|--------------|---|--------|------|--|---|
|            | :            | ,                                       | v<br>v |      |  |   |
| 117        |              | Rt27                                    | В      |      |  |   |
|            |              |   | •      |      |  |   |
| 122        | Com27B<br>V  |   | •      |      |  |   |
| 100        | V            |   |        |      |  |   |
| 125        | Rt28         |   |        |      |  |   |
| 130        |              |   |        |      |  |   |
| 130        |              | 11R                                     |        |      |  |   |
| 125        | Com20A       |   | •      |      |  |   |
| 135        | Com28A       |   |        |      |  |   |
| 130        |              | O.D.                                    |        |      |  |   |
| 138        | :            | 8R                                      |        |      |  |   |
| 143        | Com28B       |   |        |      |  |   |
| 743        | V            | • • • • • • • • • • • • •               | •      |      |  |   |
| 146        | V<br>Rt29    |   |        |      |  |   |
|            |              |   |        |      |  | - |
| 151        | •            | 10R                                     |        |      |  |   |
| -          |              | 2010                                    |        |      |  |   |
| 156        | Com29        | · · · · · · · · · · · · · · · · · ·     | •      |      |  |   |
|            | Λ            |   |        |      |  |   |
| 159        | V<br>Rt30    |   |        |      |  |   |
|            |              |   |        |      |  |   |
| -1         | :            | 6R                                      |        |      |  |   |
|            |              |   | •      |      |  |   |
| 169        | Com30A       | · · · · · · · · · · · · · · · · · · ·   | •      |      |  |   |
|            |              |   |        |      |  |   |
| 172        | :            | 4R                                      |        |      |  |   |
|            |              | •                                       |        |      |  |   |
| 177        | Com30B.      | · · · · · · · · · · · ·                 |        |      |  |   |
|            | v<br>v       |   |        |      |  |   |
| 180        | Rt31         |   |        |      |  |   |
|            |              |   |        |      |  |   |
| 185        |              | 2R                                      |        |      |  |   |
|            | :            |   |        |      |  |   |
| 190        | Com31A.      |   |        |      |  |   |
|            | :            |   |        |      |  |   |
| 193        |              | 3R                                      |        |      |  |   |
|            | :            |   |        |      |  |   |
| 198        | Com31B.<br>V |   |        |      |  |   |
|            | v            |   |        |      |  |   |
| 201        | Rt32         |   |        |      |  |   |
|            | :            |   |        |      |  |   |
| 206        |              | 1R                                      |        |      |  |   |
|            |              | :                                       |        |      |  |   |
| 211        | Com32.       | • |        |      |  |   |
| 01.5       | :            |   |        |      |  |   |
| 216<br>214 |              | DIV3                                    |        | DIV3 |  |   |
| -          |              |   |        |      |  |   |
|            | :            |   | 17R    |      |  |   |
|            |              |   |        |      |  |   |
|            |              |   |        |      |  |   |

| 222 | • | Com33A |     |
|-----|---|--------|-----|
|     | • |        |     |
|     | • | •      |     |
| 225 | • |        | 23R |
|     | • | •      |     |
|     | • |        | •   |
| 230 |   | Com33B |     |
|     | - | V      |     |
|     |   | V      |     |
| 233 |   | LSV    |     |

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

#### RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|   |                              | PEAK TIME OF AVERAGE FLOW FOR MAXIMUM PERIOD |              |                | 1UM PERIOD   | BASIN        | MAXIMUM      | TIME OF        |       |           |
|---|------------------------------|--|--------------|----------------|--------------|--------------|--------------|----------------|-------|-----------|
| + | OPERATION                    | STATION                                      | FLOW         | PEAK           | 6-HOUR       |              | 72-HOUR      | AREA           | STAGE | MAX STAGE |
| + | HYDROGRAPH AT                | 29aR   | 73.          | 37.00          | 72.          | 61.          | 31.          | 4.84           |       |           |
| + | HYDROGRAPH AT                | 29R  | 121.         | 47.00          | 120.         | 111.         | 67.          | 18.03          |       |           |
| + | 2 COMBINED AT                | Com21  | 182.         | 43.00          | 180.         | 164.         | 97.          | 22.87          |       |           |
| + | HYDROGRAPH AT                | 28aR   | 12.          | 30.00          | 12.          | 8.           | 3.           | 2.35           |       |           |
| + | 2 COMBINED AT                | Com22  | 186.         | 42.00          | 184.         | 168.         | 100.         | 25.22          |       |           |
| + | ROUTED TO                    | Rt23   | 156.         | 52.00          | 155.         | 146.         | 97.          | 25.22          |       |           |
| + | HYDROGRAPH AT  2 COMBINED AT | 24R  | 188.         | 50.00          | 187.         | 175.         | 112.         | 22.22          |       |           |
| + | HYDROGRAPH AT                | Com23A                                       | 343.         | 51.00          | 342.         | 320.         | 209.         | 47.44          |       |           |
| + | HYDROGRAPH AT                | 28R  | 0.           | 1.00           | 0.           | 0.           | 0.           | 4.68           |       |           |
| + | HYDROGRAPH AT                | 25R  | 101.         | 38.00          | 100.         | 86.          | ·43.         | 8.99           |       |           |
| + | 3 COMBINED AT                | 27R  | 243.         | 50.00          | 241.         | 225.         | 144.         | 23.93          |       |           |
| + | ROUTED TO                    | Com24  | 322.<br>314. | 45.00<br>53.00 | 320.<br>312. | 295.<br>289. | 186.         | 37.60          |       |           |
| + | HYDROGRAPH AT                | Rt25<br>22R                                  | 403.         | 46.00          | 401.         | 369.         | 183.<br>223. | 37.60<br>18.04 |       |           |
| + | 2 COMBINED AT                | Com25  | 699.         | 49.00          | 695.         | 638.         | 397.         | 55.64          |       |           |
| + | HYDROGRAPH AT                | 19R  | 81.          | 41.00          | 80.          | 71.          | 38.          | 11.18          |       |           |
| + | 3 COMBINED AT                | Com23B                                       | 1110.        | 49.00          | 1103.        | 1017.        | 643.         | 114.26         |       |           |
| + | ROUTED TO                    | Rt26A  | 1110.        | 49.00          | 1103.        | 1018.        | 642.         | 114.26         |       |           |
| + | DIVERSION TO                 | DIV3   | 490.         | 49.00          | 487.         | 441.         | 247.         | 114.26         |       |           |
| + | HYDROGRAPH AT                | DIV3   | 620.         | 49.00          | 617.         | 576.         | 396.         | 114.26         |       |           |
| + | ROUTED TO                    | Rt26B  | 614.         | 52.00          | 611.         | 571.         | 395.         | 114.26         |       |           |
| + | HYDROGRAPH AT                | 20R  | 529.         | 35.00          | 521.         | 438.         | 211.         | 18.78          |       |           |
| + | 2 COMBINED AT                | Com26  | 957.         | 43.00          | 951.         | 881.         | 593.         | 133.04         |       |           |
| + | ROUTED TO                    | Rt27A  | 733.         | 57.00          | 731.         | 705.         | 543.         | 133.04         |       |           |

| + | HYDROGRAPH AT | 13R    | 378.  | 31.00 | 371.  | 288.  | 124.  | 11.50  |  |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|--|
| + | 2 COMBINED AT | Com27A | 792.  | 51.00 | 790.  | 773.  | 635.  | 144.54 |  |
| + | HYDROGRAPH AT | 14R    | 200.  | 37.00 | 198.  | 171.  | 86.   | 9.24   |  |
| + | ROUTED TO     | Rt27B  | 127.  | 50.00 | 126.  | 115.  | 74.   | 9.24   |  |
| + | 2 COMBINED AT | Com27B | 919.  | 51.00 | 916.  | 888.  | 708.  | 153.78 |  |
| + | ROUTED TO     | Rt28   | 909.  | 55.00 | 907.  | 880.  | 703.  | 153.78 |  |
| + | HYDROGRAPH AT | 11R    | 318.  | 26.00 | 307.  | 203.  | 76.   | 10.09  |  |
| + | 2 COMBINED AT | Com28A | 919.  | 54.00 | 917.  | 895.  | 750.  | 163.87 |  |
| + | HYDROGRAPH AT | 8R     | 42.   | 30.00 | 40.   | 27.   | 10.   | 11.62  |  |
| + | 2 COMBINED AT | Com28B | 922.  | 53.00 | 920.  | 900.  | 760.  | 175.49 |  |
| + | ROUTED TO     | Rt29   | 910.  | 58.00 | 908.  | 889.  | 747.  | 175.49 |  |
| + | HYDROGRAPH AT | 10R    | 682.  | 34.00 | 671.  | 551.  | 256.  | 21.47  |  |
| + | 2 COMBINED AT | Com29  | 1389. | 37.00 | 1380. | 1270. | 977.  | 196.96 |  |
| + | ROUTED TO     | Rt30   | 1240. | 46.00 | 1237. | 1200. | 973.  | 196.96 |  |
| + | HYDROGRAPH AT | 6R     | 301.  | 43.00 | 298.  | 270.  | 154.  | 16.37  |  |
| + | 2 COMBINED AT | Com30A | 1537. | 44.00 | 1531. | 1464. | 1124. | 213.33 |  |
| + | HYDROGRAPH AT | 4R     | 167.  | 30.00 | 163.  | 125.  | 53.   | 4.73   |  |
| + | 2 COMBINED AT | Com30B | 1607. | 43.00 | 1601. | 1536. | 1169. | 218.06 |  |
| + | ROUTED TO     | Rt31   | 1380. | 57.00 | 1378. | 1351. | 1140. | 218.06 |  |
| + | HYDROGRAPH AT | 2R     | 420.  | 25.00 | 403.  | 265.  | 99.   | 5.58   |  |
| + | 2 COMBINED AT | Com31A | 1389. | 56.00 | 1387. | 1364. | 1190. | 223.64 |  |
| + | HYDROGRAPH AT | 3R     | 223.  | 28.00 | 217.  | 157.  | 63.   | 4.47   |  |
| + | 2 COMBINED AT | Com31B | 1404. | 55.00 | 1403. | 1384. | 1239. | 228.11 |  |
| + | ROUTED TO     | Rt32   | 1249. | 75.00 | 1248. | 1237. | 1136. | 228.11 |  |
| + | HYDROGRAPH AT | 1R     | 873.  | 34.00 | 858.  | 710.  | 331.  | 16.89  |  |
| + | 2 COMBINED AT | Com32  | 1715. | 39.00 | 1704. | 1567. | 1368. | 245.00 |  |
| + | HYDROGRAPH AT | DIV3   | 490.  | 49.00 | 487.  | 441,  | 247.  | 0.00   |  |

| + | HYDROGRAPH AT | 17R    | 195. | 34.00  | 192. | 158. | 73.  | 6.47   |
|---|---------------|--------|------|--------|------|------|------|--------|
| + | 2 COMBINED AT | Com33A | 586. | 45.00  | 583. | 534. | 316. | 6.47   |
| + | HYDROGRAPH AT | 23R    | 706. | 84.00  | 705. | 695. | 601. | 94.54  |
| + | 2 COMBINED AT | Com33B | 962. | 59.00  | 960. | 938. | 816. | 101.01 |
| + | ROUTED TO     | LSV    | 405. | 125.00 | 405. | 403. | 387. | 101.01 |

•

### SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ELEMENT ISTAQ DT PEAK TIME TO VOLUME DT PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) Rt25 MANE 60.00 314.22 3180.00 0.59 60.00 314.22 3180.00 0.59

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1199E+04 EXCESS=0.0000E+00 OUTFLOW=0.1193E+04 BASIN STORAGE=0.4836E+00 PERCENT ERROR= 0.4

\*\*\* NORMAL END OF HEC-1 \*\*\*

### **HEC-1 MODEL**

# REVISED EXISTING CONDITIONS RAYMONDVILLE

100-YEAR MODEL

U.S. ARMY CORPS OF ENGINEERS
HYDROLOGIC ENGINEERING CENTER
609 SECOND STREET
DAVIS, CALIFORNIA 95616
(916) 551-1748

| X   | X    | XXXXXXX | XX | XXX |       | Х   |
|-----|------|---------|----|-----|-------|-----|
| Х   | X    | X       | Х  | Х   |       | XX  |
| Х   | Х    | X       | Х  |     |       | Х   |
| XXX | XXXX | XXXX    | Х  |     | XXXXX | х   |
| Х   | X    | x       | Х  |     |       | X   |
| X   | Х    | Х       | X  | X   |       | Х   |
| Х   | Х    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
            Hidalgo County Flood Insurance Study
                Job No. 11-00389-002
File Name: Ray100RE.DAT
                                       Revised Existing Conditions
                                                                    100-yr
            * Model sequence is as follows:
              revised rainfall from USGS report 98-4044
              REVISED CN TYPE I ANTECEDANT
              REVISED LAG BASED ON REVISED ON I
              IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
              ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
            * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
            * ROUTED 5&4 BASINS THROUGH STORAGE
              MODIFIED PULS ROUTING REACHES 5R-9R
              CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
            *DIAGRAM
            IĐ
                 100-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  2
                   60 1JAN01
            TΤ
                               0 300
            IO
            * Start calculating hydrograph for the sub water sheds
            29aR SUB-WATER SHED
  5
6
7
            KM
                Compute hydrograph for 29aR
            BA
                 4.84
            PH
                                            4.68
                                                   5.65
                                                          6.29
                                                                 7.51
                                                                       8.61
                                                                              9.19
  8
                4.007
            LS
                          60
  9
               21.9
            UD
 10
                 29R SUB-WATER SHED
            KK
 11
            KМ
                Compute hydrograph for 29R
 12
            ВΑ
                18.03
 13
            LS
                4.517
                          60
 14
            UD
                 31.2
 15
                Com21
 16
                Combine two hydrographs at Node 21
 17
 18
            ĶΚ
                28aR SUB-WATER SHED
 19
20
                Compute hydrograph for 28aR
            RΑ
                 2.35
 21
             5 5.536 60
5 12.0
********
            LS
            UD
```

,

```
ID.....1.....2......3.....4......5.....6.....7.....8......9.....10
LINE
            KK Com22
 23
               Combine two hydrographs at Node 22
 24
            KM
            HC 2
 25
 26
27
28
                 Rt.23
            KK
               Route hydrograph to Node 23
            KM
            KO
                     STOR
 29
            RS
 30
            sv
                    0 880.95 2452,54 4345,49 6267.56 8472.52
            SQ 0 1000 2000 3000 4000 5000
 31
                24R SUB-WATER SHED
 32
            KK
                Compute hydrograph for 24R
 33
            KM
 34
            BA
                22,22
                         60
                4.088
 35
            LS
            UD 34.4
 36
            KK Com23A
  37
  38
            KM
               Combine two hydrographs at Node 23
            HC 2
  39
               28R SUB-WATER SHED
  40
            KK
                Compute hydrograph for 28R
  41
            ΚM
               4.68
7.319
  42
            BA
  43
            LS
                 15.7
  44
            UD
             * ******
  45
            KK
                 Rt24
  46
                Route hydrograph to Node 24
                                                    40
                                                            2
            RD 25000 0.0004 0.1
                                            TRAP
                 25R SUB-WATER SHED
  48
            KK
                 Compute hydrograph for 25R
  49
            KM
  50
            BA
                 8.99
                          60
                 4.347
  51
             LS
            UD 22.3
  52
            KK
                27R SUB-WATER SHED
  53
                 Compute hydrograph for 27R
             ĸМ
  54
  55
             BA
                 23.93
                3.830
                          60
  56
            UD 34.1
```

### RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|   |                              |               | PEAK  | TIME OF |        | OW FOR MAXIN |         | BASIN   | MUMIXAM | TIME OF   |
|---|------------------------------|---------------|-------|---------|--------|--------------|---------|---------|---------|-----------|
| + | OPERATION                    | STATION       | FLOW  | PEAK    | 6-HOUR | 24-HOUR      | 72-HOUR | AREA    | STAGE   | MAX STAGE |
| + | HYDROGRAPH AT                | 29 <b>a</b> R | 227.  | 37.00   | 224.   | 192.         | 95.     | 4.84    |         |           |
| + | HYDROGRAPH AT                | 29R           | 488.  | 47.00   | 485.   | 447.         | 271.    | 18.03   |         |           |
| + | 2 COMBINED AT                | Com21         | 678.  | 42.00   | 673.   | 613.         | 365.    | 22.87   |         |           |
| + | HYDROGRAPH AT                | 28aR          | 106.  | 27.00   | 102.   | 70.          | 27.     | 2.35    |         |           |
| + | 2 COMBINED AT                | Com22         | 706.  | 41.00   | 701.   | 644.         | 391.    | 25.22   |         |           |
| + | ROUTED TO                    | Rt23          | 599.  | 51.00   | 596.   | 561.         | 376.    | 25.22   |         |           |
| + | HYDROGRAPH AT                | 24R           | 625.  | 50.00   | 623.   | 582.         | 372.    | , 22.22 |         |           |
| + | 2 COMBINED AT                | Com23A        | 1224. | 50.00   | 1217.  | 1142.        | 748.    | 47.44   |         |           |
| + | HYDROGRAPH AT                | 28R           | 51.   | 33.00   | 50.    | 38.          | 16.     | 4.68    |         |           |
| + | ROUTED TO                    | Rt24          | 47.   | 44.00   | 46.    | 35.          | 16.     | 4.68    |         |           |
| + | HYDROGRAPH AT                | 25R           | 366.  | 37.00   | 362.   | 311.         | 156.    | 8.99    |         |           |
| + | HYDROGRAPH AT  3 COMBINED AT | 27R           | 733.  | 50.00   | 730.   | 682.         | 434.    | 23.93   |         |           |
| + | ROUTED TO                    | Com24         | 1071. | 44.00   | 1063.  | 970.         | 602.    | 37.60   |         |           |
| + | HYDROGRAPH AT                | Rt25          | 1050. | 49.00   | 1043.  | 956.         | 596.    | 37.60   |         |           |
| + | 2 COMBINED AT                | 22R           | 882.  | 46.00   | 878.   | 809.         | 488.    | 18.04   |         |           |
| + | HYDROGRAPH AT                | Com25         | 1924. | 47.00   | 1908.  | 1748.        | 1073.   | 55.64   |         |           |
| + | 3 COMBINED AT                | 19R           | 359.  | 40.00   | 355.   | 314.         | 167.    | 11.18   |         |           |
| + | ROUTED TO                    | Com23B        | 3445. | 47.00   | 3421.  | 3156.        | 1983.   | 114.26  |         |           |
| + | DIVERSION TO                 | Rt26A         | 3441. | 48.00   | 3420.  | 3156.        | 1983.   | 114.26  |         |           |
| + | HYDROGRAPH AT                | DIV3          | 1025. | 48.00   | 1021.  | 978.         | 689.    | 114.26  |         |           |
| + | ROUTED TO                    | DIV3          | 2416. | 48.00   | 2398.  | 2178.        | 1294.   | 114.26  |         |           |
| + | HYDROGRAPH AT                | Rt26B         | 2372. | 50.00   | 2356.  | 2170.        | 1291.   | 114.26  |         |           |
| + | 2 COMBINED AT                | 20R           | 1248. | 35.00   | 1229.  | 1032.        | 494.    | 18.78   |         |           |
| + |                              | Com26         | 3114. | 43.00   | 3105.  | 2882.        | 1762.   | 133.04  |         |           |

| - | ROUTED TO                    | Rt27A      | 1804. | 64.00 | 1801. | 1754. | 1492. | 133.04 |  |
|---|------------------------------|------------|-------|-------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT                | 13R        | 907.  | 30.00 | 888.  | 689.  | 294.  | 11.50  |  |
| + | 2 COMBINED AT                | Com27A     | 1866. | 61.00 | 1862. | 1826. | 1655. | 144.54 |  |
| + | HYDROGRAPH AT                | 14R        | 526.  | 37.00 | 520.  | 448.  | 226.  | 9.24   |  |
| + | ROUTED TO                    | Rt27B      | 666.  | 42.00 | 448.  | 307.  | 202.  | 9.24   |  |
| + | 2 COMBINED AT                | Com27B     | 2388. | 42.00 | 2177. | 2106. | 1858. | 153.78 |  |
| + | ROUTED TO                    | Rt28       | 2056. | 66.00 | 2054. | 2037. | 1822. | 153.78 |  |
| + | HYDROGRAPH AT                | 11R        | 934.  | 25.00 | 898.  | 587.  | 218.  | 10.09  |  |
| + | 2 COMBINED AT                | Com28A     | 2061. | 65.00 | 2060. | 2050. | 1905. | 163.87 |  |
| + | HYDROGRAPH AT                | 8R         | 480.  | 27.00 | 465.  | 318.  | 121.  | 11.62  |  |
| + | 2 COMBINED AT                | Com28B     | 2283. | 29.00 | 2216. | 2095. | 2001. | 175.49 |  |
| + | ROUTED TO                    | Rt29       | 2049. | 71.00 | 2047. | 2029. | 1903. | 175.49 |  |
| + | HYDROGRAPH AT                | 10R        | 1540. | 34.00 | 1516. | 1246. | 575.  | 21.47  |  |
| 1 | 2 COMBINED AT                | Com29      | 3169. | 36.00 | 3149. | 2882. | 2379. | 196.96 |  |
| + | ROUTED TO                    | Rt30       | 2686. | 46.00 | 2677. | 2583. | 2286. | 196.96 |  |
| + | HYDROGRAPH AT                | 6R         | 746.  | 43.00 | 740.  | 670.  | 381.  | 16.37  |  |
| + | 2 COMBINED AT                | Com30A     | 3414. | 45.00 | 3399. | 3217. | 2634. | 213.33 |  |
| + | HYDROGRAPH AT  2 COMBINED AT | 4R         | 395.  | 30.00 | 385.  | 295.  | 125.  | 4.73   |  |
| + | ROUTED TO                    | Com30B     | 3564. | 43.00 | 3547. | 3360. | 2722. | 218.06 |  |
| + | HYDROGRAPH AT                | Rt31       | 3082. | 56.00 | 3072. | 2966. | 2554. | 218.06 |  |
| + | 2 COMBINED AT                | 2 <b>R</b> | 815.  | 25.00 | 782.  | 512.  | 192.  | 5.58   |  |
| + | HYDROGRAPH AT                | Com31A     | 3102. | 56.00 | 3092. | 2985. | 2578. | 223.64 |  |
| + | 2 COMBINED AT                | 3R         | 478.  | 28.00 | 465.  | 335.  | 133.  | 4.47   |  |
| + | ROUTED TO                    | Com31B     | 3132. | 56.00 | 3122. | 3018. | 2637. | 228.11 |  |
| + | HYDROGRAPH AT                | Rt32       | 2622. | 78.00 | 2620. | 2591. | 2397. | 228.11 |  |
| + | 2 COMBINED AT                | 1R         | 1608. | 34.00 | 1582. | 1307. | 608.  | 16.89  |  |
|   | - 00.221100 111              | Com32      | 2856. | 36.00 | 2840. | 2678. | 2626. | 245.00 |  |

•

| + | HYDROGRAPH A | T<br>DIV3   | 1025. | 48.00  | 1021. | 978.  | 689.  | 0.00   |
|---|--------------|-------------|-------|--------|-------|-------|-------|--------|
| + | HYDROGRAPH A | T<br>17R    | 458.  | 33.00  | 451.  | 369.  | 170.  | 6.47   |
| + | 2 COMBINED A | T<br>Com33A | 1341. | 39.00  | 1332. | 1246. | 849.  | 6.47   |
| + | HYDROGRAPH A | T<br>23R    | 1709. | 83.00  | 1707. | 1681. | 1454. | 94.54  |
| + | 2 COMBINED A | T<br>Com33B | 2368. | 67.00  | 2356. | 2302. | 2039. | 101.01 |
| + | ROUTED TO    | LSV         | 873.  | 129.00 | 873.  | 870.  | 851.  | 101.01 |

# SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

|            | ISTAQ   | ELEMENT   | DT          | PEAK                | INTERPOLATED TO  COMPUTATION INTERVAL  PEAK TIME TO VOLUME DT PEAK TIME TO VOLUME  PEAK  PEAK  PEAK |             |           |             |            |                         |     |  |  |
|------------|---------|-----------|-------------|---------------------|---|-------------|-----------|-------------|------------|-------------------------|-----|--|--|
|            |         |           | (MIN)       | (CFS)               | (MIN)   | (IN)        | (MIN)     | (CFS)       | (MIN)      | (IN)                    |     |  |  |
|            | Rt24    | MANE      | 60.00       | 46.61               | 2640.00   | 0.38        | 60.00     | 46.61       | 2640.00    | 0.38                    |     |  |  |
| CONTINUITY | SUMMARY | (AC-FT) - | · INFLOW=0. | 9694E+02 E          | XCESS=0.0000  | DE+00 OUTFL | OW=0.9480 | DE+02 BASIN | STORAGE=0. | 3377E+00 PERCENT ERROR= | 1.9 |  |  |
|            | Rt25    | MANE      | 60.00       | 1050.06             | 2940.00   | 1.93        | 60.00     | 1050.06     | 2940.00    | 1.93                    |     |  |  |
| CONTINUITY | SUMMARY | (AC-FT) - | INFLOW=0.   | 386 <b>9E</b> +04 E | XCESS=0.000   | DE+00 OUTFL | OW=0.3861 | LE+04 BASIN | STORAGE=0. | 5026E+00 PERCENT ERROR= | 0.2 |  |  |

<sup>\*\*\*</sup> NORMAL END OF HEC-1 \*\*\*

## **HEC-1 MODEL**

# REVISED EXISTING CONDITIONS RAYMONDVILLE

500-YEAR MODEL

\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*

\* MAY 1991 \*

\* VERSION 4.0.1E \*

\* Lahey F77L-EM/32 version 5.01 \*

Dodson & Associates, Inc. \*

\* RUN DATE 05/19/01 TIME 10:40:23 \*

1\*\*\*\*\*\*\*\*\*\*\*\*\*\*

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| Х   | Х    | XXXXXXX | XXX | XXX |       | Х   |
|-----|------|---------|-----|-----|-------|-----|
| X   | Х    | X       | Х   | X   |       | XX  |
| X   | X    | X       | X   |     |       | Х   |
| XXX | XXXX | XXXX    | Х   |     | XXXXX | X   |
| Х   | X    | X       | Х   |     |       | Х   |
| Х   | Х    | X       | X   | X   |       | Х   |
| X   | Х    | XXXXXXX | XXX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
ID.....1.....2......3......4......5......6......7.....8......9......10
LINE
                 Hidalgo County Flood Insurance Study
                 Job No. 11-00389-002
                 File Name: Ray500RE.DAT
                                        Revised Existing Conditions
             * revised rainfall from USGS report 98-4044
             * REVISED CN TYPE I ANTECEDANT
             * REVISED LAG BASED ON REVISED CN I
             * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
             * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             * REDUCED FLOWS IN DIVERSION TO LA SAL VIEJA
             *DIAGRAM
                  500-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
             ID
  2
                    60 1JAN01
                                  0
                                       300
             IT
  3
             10
             * Start calculating hydrograph for the sub water sheds
             * that drain to the Raymondville drain.
                29aR SUB-WATER SHED
             KK
  5
                 Compute hydrograph for 29aR
             ΚM
  6
                  4.84
             BA
                                              6.21 7.66 8.83 10.75 12.35 13.23
             PН
                   0.2
                 4.007
  8
             LS
   9
             UD
                  21.9
             * ********
  10
             KK
                 29R SUB-WATER SHED
  11
             KM
                 Compute hydrograph for 29R
                 18.03
  12
             BA
             LS
                 4.517
                           60
  13
                  31.2
             UD
  14
               *******
  15
             KK
                 Com21
                 Combine two hydrographs at Node 21
  16
             KM
  17
             HC
              ______
                 28aR SUB-WATER SHED
  18
             KK
                 Compute hydrograph for 28aR
             KM
  19
  20
             BA
  21
             LS
                 5.536
                  12.0
             * **********
```

#### RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|   | OPERATION     | STATION | PEAK<br>FLOW | TIME OF<br>PEAK | AVERAGE | FLOW FOR MAXI | MUM PERIOD | BASIN<br>AREA | MAXIMUM<br>STAGE | TIME OF   |
|---|---------------|---------|--------------|-----------------|---------|---------------|------------|---------------|------------------|-----------|
| + |               |         |              |                 | 6-HOUR  | 24-HOUR       | 72-HOUR    | HIVER         | SIAGE            | MAX STAGE |
| + | HYDROGRAPH AT | 29aR    | 540.         | 36.00           | 534.    | 456.          | 225.       | 4.84          |                  |           |
| + | HYDROGRAPH AT | 29R     | 1279.        | 46.00           | 1272.   | 1173.         | 709.       | 18.03         |                  |           |
| + | 2 COMBINED AT | Com21   | 1731.        | 42.00           | 1720.   | 1566.         | 932.       | 22.87         |                  |           |
| + | HYDROGRAPH AT | 28aR    | 345.         | 26.00           | 333.    | 226.          | 86.        | 2.35          |                  |           |
| + | 2 COMBINED AT | Com22   | 1015.        | 40.00           | 1804.   | 1663.         | 1015.      | 25.22         |                  |           |
| + | ROUTED TO     | Rt23    | 1414.        | 53.00           | 1410.   | 1355.         | 975.       | 25.22         |                  |           |
| + | HYDROGRAPH AT | 24R     | 1527.        | 49.00           | 1521.   | 1422.         | 908.       | 22.22         |                  |           |
| + | 2 COMBINED AT | Com23A  | 2929.        | 50.00           | 2915.   | 2766.         | 1882.      | 47.44         |                  |           |
| + | HYDROGRAPH AT | 28R     | 359.         | 31.00           | 352.    | 270.          | 114.       | 4.68          |                  |           |
| + | ROUTED TO     | Rt24    | 340.         | 36.00           | 333.    | 257.          | 113.       | 4.68          |                  |           |
| + | HYDROGRAPH AT | 25R     | 925.         | 37.00           | 913.    | 785.          | 392.       | 8.99          |                  |           |
| + | HYDROGRAPH AT | 27R     | 1722.        | 49.00           | 1716.   | 1602.         | 1018.      | 23.93         |                  |           |
| + | 3 COMBINED AT | Com24   | 2734.        | 41.00           | 2717.   | 2481.         | 1515.      | 37.60         |                  |           |
| + | ROUTED TO     | Rt25    | 2703.        | 45.00           | 2684.   | 2452.         | 1506.      | 37.60         |                  |           |
| + | HYDROGRAPH AT | 22R     | 1763.        | 45.00           | 1755.   | 1617.         | 975.       | 18.04         |                  |           |
| + | 2 COMBINED AT | Com25   | 4466.        | 45.00           | 4439.   | 4066.         | 2469.      | 55.64         |                  |           |
| + | HYDROGRAPH AT | 19R     | 971.         | 40.00           | 962.    | 849.          | 450.       | 11.18         |                  |           |
| + | 3 COMBINED AT | Com23B  | 8176.        | 46.00           | 8134.   | 7546.         | 4789.      | 114.26        |                  |           |
| + | ROUTED TO     | Rt26A   | 8174.        | 46.00           | 8131.   | 7538.         | 4789.      | 114.26        |                  |           |
| + | DIVERSION TO  | DIV3    | 613.         | 46.00           | 610.    | 565.          | 359.       | 114.26        |                  |           |
| + | HYDROGRAPH AT | DIV3    | 7561.        | 46.00           | 7521.   | 6973.         | 4430.      | 114.26        |                  |           |
| + | ROUTED TO     | Rt26B   | 7315.        | 51.00           | 7276.   | 6774.         | 4424.      | 114.26        |                  |           |
| + | HYDROGRAPH AT | 20R     | 2594.        | 35.00           | 2555.   | 2145.         | 1026.      | 18.78         |                  |           |
|   | 2 COMBINED AT | Com26   | 9648.        | 46.00           | 8606.   | 8040.         | 5392.      | 133.04        |                  |           |

| + | ROUTED TO     | Rt27A  | 4993. | 71.00 | 4986. | 4890. | 4133. | 133.04 |  |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT | 13R    | 1915. | 30.00 | 1875. | 1447. | 618.  | 11.50  |  |
| + | 2 COMBINED AT | Com27A | 5055. | 69.00 | 5049. | 4963. | 4323. | 144.54 |  |
| + | HYDROGRAPH AT | 14R    | 1146. | 37.00 | 1132. | 976.  | 490.  | 9.24   |  |
| + | ROUTED TO     | Rt27B  | 1377. | 36.00 | 1132. | 914.  | 456.  | 9.24   |  |
| + | 2 COMBINED AT | Com27B | 5308. | 60.00 | 5275. | 5217. | 4768. | 153.78 |  |
| + | ROUTED TO     | Rt28   | 5206. | 75.00 | 5201. | 5139. | 4608. | 153.78 |  |
| + | HYDROGRAPH AT | 11R    | 2168. | 25,00 | 2085. | 1348. | 499.  | 10.09  |  |
| + | 2 COMBINED AT | Com28A | 5206. | 75.00 | 5201. | 5143. | 4663. | 163.87 |  |
| + | HYDROGRAPH AT | 8R     | 1652. | 26.00 | 1597. | 1078. | 409.  | 11.62  |  |
| + | 2 COMBINED AT | Com28B | 5208. | 75.00 | 5204. | 5149. | 4866. | 175.49 |  |
| + | ROUTED TO     | Rt29   | 5175. | 80.00 | 5171. | 5117. | 4759. | 175.49 |  |
| + | HYDROGRAPH AT | 10R    | 3150. | 33.00 | 3103. | 2545. | 1174. | 21.47  |  |
| + | 2 COMBINED AT | Com29  | 7325. | 35.00 | 7255. | 6552. | 5671. | 196.96 |  |
| + | ROUTED TO     | Rt30   | 6653. | 42.00 | 6597. | 6114. | 5492. | 196.96 |  |
| + | HYDROGRAPH AT | 6R     | 1597. | 43.00 | 1586. | 1436. | 815.  | 16.37  |  |
| + | 2 COMBINED AT | Com30A | 8249. | 42.00 | 8183. | 7516. | 6213. | 213.33 |  |
| + | HYDROGRAPH AT | 4R     | 825.  | 30.00 | 806.  | 615.  | 259.  | 4.73   |  |
| + | 2 COMBINED AT | Com30B | 8639. | 41.00 | 6572. | 7836. | 6367. | 218.06 |  |
| + | ROUTED TO     | Rt31   | 7949. | 48.00 | 7895. | 7359. | 6161. | 218.06 |  |
| + | HYDROGRAPH AT | 2R     | 1521. | 25.00 | 1461. | 955.  | 357.  | 5.58   |  |
| + | 2 COMBINED AT | Com31A | 8058. | 47.00 | 8004. | 7453. | 6213. | 223.64 |  |
| + | HYDROGRAPH AT | 3R     | 946.  | 28.00 | 921.  | 661.  | 263.  | 4.47   |  |
| + | 2 COMBINED AT | Com31B | 8221. | 47.00 | 8162. | 7589. | 6285. | 228.11 |  |
| + | ROUTED TO     | Rt32   | 6747. | 62.00 | 6732. | 6552. | 5868. | 228.11 |  |
| + | HYDROGRAPH AT | 1R     | 2905. | 34.00 | 2865. | 2365. | 1101. | 16.89  |  |
| + | 2 COMBINED AT | Com32  | 7246. | 58.00 | 7225. | 7000. | 6202. | 245.00 |  |

| 4 | HYDROGRAPH AT | DIV3   | 613.  | 46.00  | 610.  | 565.  | 359.  | 0.00   |  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT | 17R    | 954.  | 33.00  | 939.  | 768.  | 353.  | 6.47   |  |
| + | 2 COMBINED AT | Com33A | 1390. | 37.00  | 1376. | 1210. | 705.  | 6.47   |  |
| + | HYDROGRAPH AT | 23R    | 3628. | 82.00  | 3625. | 3570. | 3089. | 94.54  |  |
| + | 2 COMBINED AT | Com33B | 3864. | 76.00  | 3858. | 3809. | 3384. | 101.01 |  |
| + | ROUTED TO     | LSV    | 1540. | 136.00 | 1540. | 1532. | 1446. | 101.01 |  |

## SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAQ TIME TO VOLUME ELEMENT DT PEAK  $\mathtt{D}\Upsilon$ PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) Rt24 MANE 57.00 339.66 2166.00 2.69 60.00 339.55 2160.00 2.69 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6788E+03 EXCESS=0.0000E+00 OUTFLOW=0.6721E+03 BASIN STORAGE=0.2698E+00 PERCENT ERROR= 0.9 Rt25 MANE 60.00 2702.75 2700.00 4.83 60.00 2702.75 2700.00 4.83 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.9688E+04 EXCESS=0.0000E+00 OUTFLOW=0.9681E+04 BASIN STORAGE=0.5466E+00 PERCENT ERROR=

\*\*\* NORMAL END OF HEC-1 \*\*\*

**HEC-1 MODEL** 

PROPOSED CONDITIONS 10% DIVERSION

25-YEAR MODEL

\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \* MAY 1991 \* VERSION 4.0.1E \* Lahey F77L-EM/32 version 5.01 \* Dodson & Associates, Inc. \* RUN DATE 05/23/01 TIME 14:49:43 \*

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551~1748

\*\*\*\*\*\*\*\*\*

| Х   | Х    | XXXXXXX | XXX | XXX |       | Х   |
|-----|------|---------|-----|-----|-------|-----|
| Х   | X    | X       | Х   | Х   |       | XX  |
| Х   | Х    | X       | Х   |     |       | . X |
| XXX | XXXX | XXXX    | Х   |     | XXXXX | Х   |
| X   | Х    | Х       | Х   |     |       | Х   |
| X   | X    | X       | Х   | Х   |       | Х   |
| Х   | X    | XXXXXXX | XXX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
             10.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                 Hidalgo County Flood Insurance Study
                 Job No. 11-00389-002
                 File Name: Deten025.DAT
                                         Proposed with Detention Conditions
                  25-year Rain-fall
                                         Future Development
             * ***********
             * HEC-1 model for the North-West main drain area
             * Model sequence is as follows:
             * revised rainfall from USGS report 98-4044
             * REVISED CN TYPE I ANTECEDANT
             * REVISED LAG BASED ON REVISED CN 1
             * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
             * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
             ID
                 West Main drain area
  2
             ID
                   25-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  3
             ΙT
                    60 1JAN01
                                 0 300
             10
             * ****************
             * Start calculating hydrograph for the sub water sheds
             SC-7A SUBWATER SHED
  5
             KK
                 Compute hydrograph for sub-water shed SC-7A
  6
             KM
             BA
                  18.4
  7
  8
                                               3.61
                                                     4.29
                                                             4.65
                                                                    5.45
                                                                            6.22
                                                                                   6.62
             PH
                 5.721
                           60
             LS
  10
             UD
                  53.5
  11
             KK
                 Route hydrograph from head water to node 1 using Muskingum-Cunge Method
  12
             KΜ
  13
             RD
  14
             RC
                  0.08
                         0.03
                                 0.08
                                      19200 0.0002
                                                       217
                  1000
                         2500
                                2917
                                       2994
                                               3005
                                                      3061
                                                             4500
                                                                    5000
             RX
  15
                               204.4 191.53 191.53
                 203.5
                        202.0
                                                     204.5
                                                            199.9
                                                                   199.0
  16
             RY
  17
                 SC-7B SUBWATER SHED
             KK
  18
             KM
                 Compute hydrograph for sub-water shed SC-7B
  19
             BA
                  9.82
  20
                 5.282
             LS
             UD
             * ***********
```

HEC-1 INPUT PAGE 2

```
LINE
                                             ID.....1....2....3....4.....5.....6.....7....8.....9.....10
       22
                                               KM Combine hydrograph from SC-7A and SC-7B, at node 1
       23
       24
       25
                                               ΚK
                                                                   2R
                                                          Route hydrograph from node 1 to node 2
       26
                                               KM
       27
                                               RD
                                               RC 0.08 0.03 0.08 32000 0.0002
RX 1000 2500 2977 2994 3005
RY 175 173 172 160.91 160.91
                                                                                                                                                                                              187
       28
                                                                                                                                                                                           3032
                                                                                                                                                                                                                    4500
                                                                                                                                                                                                                                              5000
       29
                                                                                                                                                                                        174.0
                                                                                                                                                                                                                  173.0
                                                                                                                                                                                                                                          175.0
       30
                                                             SC-7C SUBWATER SHED
       31
                                               KK
                                                             Compute hydrograph for sub-water shed SC-7C
                                               KM
       32
       33
                                               BA
                                                                 23
                                                             5.028
                                               LS
                                                                                                60
        34
                                               UD
                                                              27.4
       35
                                                * ******
       36
                                               KK
                                                             SC-6A
        37
                                               KM
                                                             Compute hydrograph for sub-water shed SC-6A
        38
                                               BA
                                                            41.66
                                                         4.484
        39
                                                LS
                                                UD
                                                                 50.5
        40
                                                * **********
                                               \hfill 
        41
        42
        43
        44
                                               KK
                                                                  3R
        45
                                                             Route hydrograph from node 2 to node 3
                                                RD
        46
                                                RC 0.08 0.03 0.08 20800 0.0005 106
RX 1000 1874.9 1960.8 1966.1 1992.5 2010.8 2037.1
RY 97 98 100 98 88 88 100
        47
                                                                                                                                                                                                                                                3000
        48
                                                                                                                                                                                                                 100
                                                                                                                                                                                                                                                99.4
        49
                                                KK
                                                            SC-6B
        50
                                                             Compute hydrograph for sub-water shed SC-6B
        51
                                                KM
        52
                                                BA
                                                                6.58
                                                             1.765
        53
                                                LS
                                                UD 22.6
        54
         55
                                                               SC-7D
                                                               Compute hydrograph for sub-water shed SC-7D
         56
                                                               6.15
         57
                                                 LS 4.829 60
UD 25.6
         58
```

| LINE                 | ID.                  | 1       | 2.            | 3.         | 4 .              | 5        | 6                  | 57     | 8.     | 910 |
|----------------------|----------------------|---------|---------------|------------|------------------|----------|--------------------|--------|--------|-----|
| 60<br>61<br>62<br>63 | KK<br>KM<br>RD<br>RC |         | hydrogra      |            | of SC-7D<br>8000 | 0.0001   |                    |        |        |     |
|                      |                      | 0.08    |               | 0.08       |                  |          | 106                |        | 2000   |     |
| 64                   | RX                   | 1000    | 1967.5        | 1977.9     | 1985.8           | 2007     | 2017.3             |        |        |     |
| 65                   | RY<br>* *            | 97.2    | 98<br>*****   | 90<br>**** | 84               | 84       | 90                 | 98     | 3 97   |     |
| 66                   | KK                   | 3C      |               |            |                  |          |                    |        |        |     |
| 67                   | KM                   | Combin  | ne three      | hydrogra   | ph at no         | de 3     |                    |        |        |     |
| 68                   | HC                   | 3       |               |            |                  |          |                    |        |        |     |
|                      | * *                  | ******  | ******        | ****       |                  |          |                    |        |        |     |
|                      | ****                 | 40      |               |            |                  |          |                    |        |        |     |
| 69                   | KK                   | 4R      |               | ->- C      |                  |          |                    |        |        |     |
| 70                   | KM                   |         | hydrogra      |            | node 3 t         | o node   | 1                  |        |        |     |
| 71                   | RS                   | 1       | STOR          | -1         |                  |          |                    |        |        |     |
| 72                   | SV                   | 0       | 114           | 489        | 779              | 1639     | 2929               |        |        |     |
| 73                   | SQ<br>*              | 0       | 680           | 1360       | 1700             | 2715     | 4240               | )      |        |     |
|                      | *                    | 0.08    | 0.03          | 0.08       | 14400 0          | .0006    | 103                |        |        |     |
|                      | *                    |         |               |            | 843.6            |          | 1878.8             | 1890.6 | 2855.2 |     |
|                      | *                    | 89      | 90            | 84         | 78               | 78       | 84                 | 90     | 89     |     |
|                      | * *                  |         | *****         |            | , 0              | , 0      | 04                 | 30     | 03     |     |
|                      |                      |         |               |            |                  |          |                    |        |        |     |
| 74                   | KK                   | SC5A    | subwate       | r-shed     |                  |          |                    |        |        | •   |
| 75                   | KM                   |         | te hydrog     |            | subwate          | r shed   | SC-5A              |        |        |     |
| 76                   | BA                   | 38.43   |               |            |                  |          |                    |        |        |     |
| 77                   | LS                   | 2.575   | 60            |            |                  |          |                    |        |        |     |
| 78                   | UD                   | 51      | 00            |            |                  |          |                    |        |        |     |
| ,,                   |                      |         | *****         | ****       |                  |          |                    |        |        |     |
|                      |                      |         |               |            |                  |          |                    |        |        |     |
| 79                   | KK                   | 5ACANA  |               |            |                  |          |                    |        |        |     |
| 80                   | KM                   | CANAL   | CROSSING      |            |                  |          |                    |        |        |     |
| 81                   | RS                   | 1       | ELEV          | 135        | 0                |          |                    |        |        |     |
| 82                   | SS                   | 140.67  | 2000          | 2.8        | 1.5              |          |                    |        |        |     |
| 83                   | ST                   | 140.82  | 2000          | 2.8        | 1.5              |          |                    |        |        |     |
| 84                   | SW                   | 2000    | 2000          | 2000       | -70              |          |                    |        |        |     |
| 85                   | SE                   | 140.96  | 141.14        | 141.28     |                  |          |                    |        |        |     |
| 86                   | sv                   | 0       | 537           | 5484       | 7582             |          |                    |        |        |     |
| 87                   | SE                   | 135     | 140           | 145        | 150              |          |                    |        |        |     |
| ь г                  | -                    |         | 14U<br>****** |            | 130              |          |                    |        |        |     |
|                      | * *                  | * ^ * 7 |               |            |                  |          |                    |        |        |     |
|                      |                      |         |               |            |                  |          |                    |        |        |     |
| 88                   | KK                   | 5AROUT  |               |            |                  |          |                    |        |        |     |
| 88<br>88             | KK                   | 5AROUT  | hvdrogra      | oh TO DO   | WNSTREAM         | 1 CANAT. |                    |        |        |     |
| 89                   | KM                   |         | hydrogra      | ph TO DC   | WNSTREAM         | 1 CANAL  |                    |        |        |     |
| 89<br>90             | KM<br>RD             | Route   |               | -          |                  |          | 1.41               | n      |        |     |
| 89<br>90<br>91       | KM<br>RD<br>RC       | Route   | .06           | .06        | 11900            | .0023    | 14(                |        | 5 7050 |     |
| 89<br>90             | KM<br>RD             | Route   | .06<br>1500   | -          |                  |          | 140<br>5650<br>129 | 588    |        |     |

HEC-1 INPUT PAGE 4

```
ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
LINE
  94
                   SC5Al subwater-shed
  95
                   Compute hydrograph for subwater shed SC-5Al
  96
              BA
  97
                   1.889
  98
              UD
                   14.8
 99
              ΚK
                    5AA1
 100
              ΚM
                   Combine two hydrographs
 101
              HС
                  2
              KK
                  5A1CAN
 102
                   CANAL CROSSING
              KM
 103
                           ELEV
              RS
                                    115
 104
                                             0
                     1
                   116.8
                           1900
 105
              SS
                                    2.8
                                           1.5
                           4050
                                    2.8
 106
              ST
                   117.2
                                           1.5
              sv
                           2705
 107
 108
              SE
 109
              KK 5A1RT
 110
              КМ
                   Route hydrograph TO DOWNSTREAM CANAL
 111
              RD
                     .06
                            .06
                                    .06
                                         14900
                                                 .0017
 112
              RC
                                                          110
                           2580
 113
              RX
                     0
                                   4000
                                          5000
                                                  6000
                                                          9675
                                                                10400
                                                                       10450
              RY 100 100 95
                                            94
 114
                                                   95
                                                          100
                                                                105
                                                                         105
                   SC5B subwater-shed
 115
              KK
                   Compute hydrograph for subwater shed SC-5B
              KM
 116
              BA
 117
              LS
                   2.515
 118
              UD 13
 119
 120
                   Combine two hydrographs
 122
 123
                   SC-4A subwater-shed
 124
              KM
                   Compute hydrograph for subwater shed SC-4A
 125
              BA
                   30.73
                             60
 126
              LS
                   2.512
                    37.3
 127
              UD
 128
              KK 4ACANA
                   CANAL CROSSING
 129
              КM
 130
              RS
                           ELEV
 131
              SS
                  171.74
                             500
                                    2.8
                                            1.5
              ST
                  171.83
                             500
                                    2.8
                                            1.5
 132
 133
                    500
                            500
                                    500
                                            500
                                                   500
                                                           500
```

| LINE | ID.  | 1.        | 2.        | 3.       | 4.        | 5.        | 6      | 7    | 8    | 910 |  |
|------|------|-----------|-----------|----------|-----------|-----------|--------|------|------|-----|--|
| 134  | SE   | 171.91    | 172       | 172.08   | 172.17    | 172.26    | 172.35 |      |      |     |  |
| 135  | sv   | 0         | 60        | 946.5    | 4419      |           |        |      |      |     |  |
| 136  | SE · | 160       | 165       | 170      | 175       |           |        |      |      |     |  |
|      | * *  | *****     | *****     | ****     |           |           |        |      |      |     |  |
| 137  | KK   | 4AROUT    |           |          |           |           |        |      |      |     |  |
| 138  | KM   | Route     | hydrogra  | ph TO DO | WNSTREAM  | CANAL     |        |      |      |     |  |
| 139  | RD   |           |           | -        |           |           |        |      |      |     |  |
| 140  | RC   | .06       | .06       | .06      | 11300     | .003      | 165    |      |      |     |  |
| 141  | RX   | 0         | 2500      | 3000     | 3500      | 4000      | 5000   | 6000 | 7650 |     |  |
| 142  | RY   | 155       | 155       | 150      | 150       | 155       | 155    | 155  | 155  |     |  |
| 132  |      |           | *****     |          |           |           |        | 200  |      |     |  |
| 143  | KK   | SC-4A1    | subwater  | -shed    |           |           |        |      |      |     |  |
| 144  | KM   |           | e hydrog  |          | subwate   | r shed S  | C-4A1  |      |      |     |  |
| 145  | BA   | 7.34      |           |          |           |           |        |      |      |     |  |
| 146  | LS   | 2.158     | 60        |          |           |           |        |      |      |     |  |
| 147  | מט   | 10.85     | 00        |          |           |           |        |      |      |     |  |
| 11,  |      |           | *****     | ****     |           |           |        |      |      |     |  |
| 148  | KK   | SC4AA1    |           |          |           |           |        |      |      |     |  |
| 149  | KM   |           | ne two hy | drograph | ıs        |           |        |      |      |     |  |
| 150  | HC   | 2         |           |          |           |           |        |      |      |     |  |
|      |      |           | *****     | ****     |           |           |        |      |      |     |  |
| 151  | KK   | 4A1CAN    |           |          |           |           |        |      | -    |     |  |
| 152  | KM   | CANAL     | CROSSING  | ;        |           |           |        |      |      |     |  |
| 153  | RS   | 1         | ELEV      | 140      | 0         |           |        |      |      |     |  |
| 154  | SS   | 141       | 4300      | 2.8      | 1.5       |           |        |      |      |     |  |
| 155  | ST   | 141.11    | 500       | 2.8      | 1.5       |           |        |      |      |     |  |
| 156  | SW   | 500       | 500       |          |           |           |        |      |      |     |  |
| 157  | SE   | 141.33    | 141.55    |          |           |           |        |      |      |     |  |
| 158  | sv   | 0         | 2475      |          |           |           |        |      |      |     |  |
| 159  | SE   | 140       | 145       |          |           |           |        |      |      |     |  |
| 100  |      |           | *****     | ****     |           |           |        |      |      |     |  |
| 160  | KK   | 4A1ROU    |           |          |           |           |        |      |      |     |  |
| 161  | KM   |           | hydrogra  | on TO DO | WNSTREAM  | 1 CANAL   |        |      |      |     |  |
| 162  | RD   | 110 2 2 0 | , ,       |          |           |           |        |      |      |     |  |
| 163  | RC   | .06       | .06       | .06      | 8000      | .003      | 145    |      |      |     |  |
| 164  | RX   | 0         | 700       | 1500     | 1800      | 2300      | 2400   | 2425 | 2500 |     |  |
| 165  | RY   | 130       | 127.5     | 126.5    | 130       | 135       | 135    | 135  | 135  |     |  |
| 165  |      |           | ******    |          | 150       | 100       | 133    | 1,55 | 100  |     |  |
| 166  | KK   | SC~4B     | subwater  | -shed    |           |           |        |      |      |     |  |
| 167  | KM   |           | te hydrod |          | r subwate | er shed S | SC-4B  |      |      |     |  |
| 168  | BA   | 5.44      |           | ,        |           |           |        |      |      |     |  |
| 169  | LS   | 3.062     | 60        |          |           |           |        |      |      |     |  |
| 170  | UD   | 6.6       | 50        |          |           |           |        |      |      |     |  |
| 1,0  |      |           | ******    | ****     |           |           |        |      |      |     |  |
|      | - ,  |           |           |          |           |           |        |      |      |     |  |

+ COMBINE WATERSHEDS SC-4A,4A1,4B

```
ID......1.....2......3......4......5.....6......7.....8.....9.....10
LINE
 171
              KK SC4AAB
              KM Combine two hydrographs
 174
              KK 4BCANA
 175
              KM CANAL CROSSING
 176
              RS
                     1
                            ELEV
                                     110
                                              0
 177
              SS 113.48
                             500
                                    2.8
                                            1.5
                                  2.8
 178
                             500
              ST 113.65
                                             1.5
                           500
 179
                   500
              SW
                                                    500
                                             500
                                                            500
              SE 113.82 113.99 114.15 114.32 114.49 114.66 SV 0 473.8 2460
 180
                                  2460
 181
              SE 110 115 120
 182
 183
              KK 4AABRT
 184
                   Route hydrograph TO DOWNSTREAM CANAL
 185
 186
                    .06
                             .06
                                     .06
                                           10800
                                                   .0018
                                                            105
 187
                      0
                            1100
                                    2000
                                           2600
                                                   3000
                                                            3500
                                                                    4000
                                                                            5000
 188
              RY
                    110
                            105
                                    100
                                             98
                                                    100
                                                            105
                                                                     105
                                                                            105
189
              KK SC-4B1 subwater-shed
 190
              KM Compute hydrograph for subwater shed SC-4Bl
 191
              BA
                   6.07
 192
              LS
                   2.451
                              60
              UD 12.2 * ******************
 193
194
              KK
                   SC-4
 195
              KM Combine two hydrographs
196
              НC
197
              KK
                    4C2
198
              KM
                  Combine three hydrographs at node 4
              HC 3
199
200
                     5R
              KK
201
                   Route hydrograph from node 4 to node 5
              KM
202
                   1
0
                          STOR
204
                                  -1
838
              RS
 203
                                            1406
              SV
                                                   3840
                                                            6496
204
              SQ
*
                            1110
                                   2220
                                           2775
                                                   4440
                                                            6940
                  0.08 0.03 0.08 12800 0.0002 106
1000 1101 1113.3 1132.9 1153.4 1166.2 1178.9
87.1 82 78 70 70 78 86
```

| LINE                            | ID12345678910   |
|---------------------------------|---|
| 205<br>206<br>207<br>208<br>209 | KK SC-3 SUB-WATER SHED  KM Compute hydrograph for subwater shed SC-3  BA 56.44  LS 2.203 60  UD 62.9  * **********************************  |
| 210<br>211<br>212               | KK 5C KM Combine two hydrographs at node 5 HC 2 * **********************************  |
| 213<br>214<br>215<br>216<br>217 | KK DIV1 KM Diversion to Raymondville Drain DT DIV1 DI 0 15 224 511 1120 2355 4175 7265 10250 DQ 0 1 2 3 75 250 650 1450 2125  |
| 218<br>219<br>220<br>221<br>222 | KK 6R  KM Route hydrograph from node 5 to node 6  RS 2 STOR -1  SV 0 428 2369 3646 8785 12983  SQ 0 1315 2630 3290 5260 8220  *  * 0.08 0.03 0.08 7200 0.0002 103  * 1000 1891.2 1926.7 1980.9 2018.3 2105 2201.4 3000  * 82 82 86 70 70 88 86 83 |
| 223<br>224<br>225<br>226<br>227 | KK SC-3B KM Compute hydrograph from sub-water shed SC-3B BA 6.71 LS 3.075 60 UD 34.4 * **********************************   |
| 229<br>230                      | KM Combine two hydrographs at node 6 HC 2 * **********************************  |
| 231<br>232<br>233<br>234<br>235 | KK 7R KM Route hydrograph from node 6 to node 7 RS 1 STOR -1 SV 0 86 166 392 1932 3564 SQ 0 1345 2690 3360 5380 8400 *  * 0.08 0.03 0.08 25200 0.0004 103 * 1000 1856.6 1869.7 1896.8 1933.8 1960.1 2757.7 2915.9 * 86 86 78 70 70 86 86 88       |
| 231<br>232<br>233<br>234        | KK 7R  KM Route hydrograph from node 6 to node 7  RS 1 STOR -1  SV 0 86 166 392 1932 3564  SQ 0 1345 2690 3360 5380 8400  * 0.08 0.03 0.08 25200 0.0004 103  * 1000 1856.6 1869.7 1896.8 1933.8 1960.1 2757.7 2915.9                              |

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```
ID.....1......2......3......4......5......6.......7......8......9.....10
LINE
 236
              KK
                    SC-2
 237
              KM
                   Compute hydrograph for SC-2
 238
              BA
                   11.48
 239
              LS
                   5.152
                              60
 240
              UD
                    56.8
              KK
                     7C
 241
 242
              KM
                   Combine hydrograph at node 7
 243
              HC
                    2
 244
              ΚK
                      8R
 245
              KΜ
                   Route hydrograph from node 7 to node 8
 246
              RS
                   2
0
                           STOR
                                    -1
1129
                                           1807
              sv
                                                   4601
 247
                            314
                                                           9248
 24R
              SQ
                       0
                            1390
                                   2780
                                           3475
                                                   5560
                                                           8690
                          0.03
                                0.08
                  0.08
                                       26400 0.0003
                                                          103
              * 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1 

* 66 66 60 54 54 62 68 72
 249
              KK
                   SC-1
 250
                 Compute hydrograph for SC-1
              КM
 251
              ВА
                    7.07
                  1.365
              LS
 253
              UD
                    38.7
              * *************
 254
              ĸĸ
                    8C1
 255
              KM
                  Combine hydrograph at node 8
 256
              НC
                    2
              * Start calculating hydrograph for the sub water sheds
              that drain to the South Main drain.
 257
              KK
                   SC-8
 258
              ΚM
                   Compute hydrograph for subwater shed SC-8
 259
              BA
                   19.99
 260
              LS
                   1.861
                           68.50
 261
              UΦ
                    53.5
 262
              кĸ
                     1BR
 263
                   Route hydrograph to node 1B
              KM
 264
              RD
                                    0.08
                    0.08
                            0.03
                                          27200 0.0003
 265
              RC
                                                            115
                                   1973
                                                                 2075.5
                    1000 1695.7
                                           2003
90
                                                 2010.5 2029.5
90 100
 266
              RX
                                                                           3000
                103.1 110 1
 267
              RY
                                                                  108
                                                                            107
```

```
LINE
             ID.....1......3.....4.....5.....6.....7.....8.....9.....10
268
             КK
                 SM~18
269
             KM
                 Compute hydrograph for sub-water shed SM-18
270
             BA
                 27.11
271
             LS
                 4.165
                         66.14
272
             UD
                 55.8
******
273
             KK
                  1BC1
274
             KM
                 Combine two hydrographs at node 1B
275
             HC 2
276
             KK
                 SM+17
277
             KM
                 Compute hydrograph for sub-water shed SM-17
278
             BA
                  7.03
279
                 0.834
                         70.51
             LS
280
             281
             KK
                 1BC2
282
             KM Combine two hydrographs at node 1B
             НÇ
             HC 2
284
             KK
                  2BR
285
                Route hydrograph from node 1B to 2B
286
             RD
                  0.08 0.03
287
                               0.08 14400 0.0007
                                                       103
             RX 1000 1335.2 1343 1354.8 1398.6 1411.9 1420.9 2375.6 RY 91 91 88 82 82 88 92 92
288
289
290
             KK
                 SM-16
291
             KM
                 Compute hydrograph for SM-16
292
             BA
                 25.18
293
             LS
                2.689
             UD 61.6
294
295
             KK
                 2BC
296
             KM Combine hydrograph at node 2B
297
298
             KK
                  3BR
299
             KM Route hydrograph from node 2B to node 3B
300
             RD
301
             RC
                  0.08
                        0.03
                               0.08 10400 0.0008
                                                       103
                 1000 1760.1 1781.2 1826.3 1883.8 1920.1 1946.7 2799.8 79 84 72 72 84 92 82 82.4
302
             ЯX
303
             RY
```

| LINE | ID1   |
|------|---|
| 304  | KK SM-15 SUB-WATER SHED                                     |
| 305  | KM Compute hydrograph for SM-15                             |
|      |   |
| 306  | BA 11.1   |
| 307  | LS 1.378 60   |
| 308  | UD 40.6   |
|      | * *********   |
| 309  | KK 3BC  |
| 310  | KM Combine hydrograph at node 3B                            |
| 311  | RC 2  |
| 311  | nc  |
|      |   |
| 312  | KK 4BR  |
| 313  | KM Route hydrograph from node 3B to 4B                      |
| 314  | RD .  |
| 315  | RC 0.08 0.03 0.08 10400 0.0003 103                          |
| 316  | RX 1000 1962.3 1989.1 2026.6 2053.7 2129 2176 3000          |
| 317  | RY 72.7 76 60 60 74 86 74 75.6                              |
| J.,  | * ***************   |
|      |   |
| 318  | KK SM-14 SUB-WATER SHED                                     |
| 319  | KM Compute hydrograph for SM-14                             |
| 320  | BA 21.6   |
| 321  | LS 1.666 60   |
| 322  | UD 69.1   |
|      | * *************   |
| 323  | KK 4BC  |
|      |   |
| 324  | KM Combine hydrograph at node 48                            |
| 325  | HC 2  |
|      | * *************************************                     |
| 326  | KK 8BR  |
| 327  | KM Route hydrograph from node 4B to node 9                  |
| 328  | RD  |
| 329  | RC 0.08 0.03 0.08 16000 0.0007 103                          |
| 330  | RX 1000 1885.8 1978.6 2036.9 2065.1 2149.5 2205 3000        |
| 331  | RY 76 76 54 54 68 82 70 72                                  |
| 331  | A1 /0 /0 /3 /3 /4 /0 /2 // /2 // /2 // /2 // // // // // // |
|      |   |
| 332  | KK SM-13  |
| 333  | KM Compute hydrograph for SM-13                             |
| 334  | BA 22.25  |
| 335  | LS 4.220 60   |
| 336  | UD 74.5   |
|      | * ************  |
|      |   |
| 337  | KK 8C2  |
| 338  | KM Combine hydrograph at node 9                             |
| 339  | HC 2  |
|      | * **********  |

| LINE | ID.  | 12345678910   |
|------|------|---|
| 340  | KK   | 8C3 .   |
| 341  | KM.  | Combine hydrographs from North-West and South drain   |
| 342  | HC   | 2   |
|      |      | **********  |
| 343  | KK   | 9R  |
| 344  | KM   | Route hydrograph to the PANCHITA STRUCTURE            |
| 345  | RD   |   |
| 346  | RC   | 0.08 0.03 0.08 46~24 0.0004 103                       |
| 347  | RX   | 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1 |
| 348  | RY   | 66 66 60 54 54 62 68 72                               |
|      | * *  | ***********   |
| 349  | KK   | 29S SUB-WATER SHED                                    |
| 350  | KM   | Compute hydrograph for 29S                            |
| 351  | BA   | 12.28   |
| 352  | LS   | 3.021 60  |
| 353  | UD   | 25.9  |
|      | * *  | ***********   |
| 354  | KK   | Com9A   |
| 355  | KM   | Combine two hydrographs at Node 9                     |
| 356  | HС   | 2   |
|      | * *  | **************************************                |
| 357  | KK   | 28S SUB-WATER SHED                                    |
| 358  | KM   | Compute hydrograph for 28S                            |
| 359  | BA   | 25, 91  |
| 360  | LS   | 2.866 60  |
| 361  | UD   | 38.6  |
|      |      | **********  |
| 362  | кк   | Com9B   |
| 363  | KM   | Combine two hydrographs at Node 9                     |
| 364  | HC   | 2   |
|      | * *: | ***************                                       |
| 365  | KK   | Rt10  |
| 366  | KM   | Route hydrograph to Node 10                           |
| 367  | RS   | 1 STOR -1   |
| 368  | sv   | 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51       |
| 369  | SQ   | 0 1000 2000 4000 6000 8000 10000                      |
|      |      | **********  |
| 370  | KK   | DIV2  |
| 371  | KM   | TO WATERSHED SOUTH OF NORTH MAIN                      |
| 372  | DT   | DIV2  |
| 373  | DI   | 0 7000 65000  |
| 374  | DQ   | 0 2000 2000   |

```
LINE
             ID.....1......3.....4......5......6......7.....8......9.....10
375
             KK
                   27S SUB-WATER SHED
376
                 Compute hydrograph for 27S
             KM
377
                  12.15
             BA
378
             LS
                  2.977
                         61.92
379
             UD 14.7
380
             KK Com10A
381
             KΜ
                 Combine two hydrographs at Node 10
382
             HС
                   2
383
             KK
                   26S SUB-WATER SHED
384
             KM
                 Compute hydrograph for 26S
385
             BA
                 10.55
                2.974
             LS
                         62.54
             UD 13.6
387
388
             KK
                   24S SUB-WATER SHED
389
             KΜ
                  Compute hydrograph for 24S
390
             BA
                  3.83
391
             LS
                  2.940
                         62.11
             UD 14.7
392
393
             KK Com10B
394
             KM
                 Combine three hydrographs at Node 10
             HC 3
395
396
             КK
                  Rt11
                 Route hydrograph to Node 11

1 STOR -1

0 249.3 385.44 1661.56 3718.66 5233.82 6730.05
397
             KM
398
             RS
399
             sv
400
               0 1000 2000
             SQ
                                        4000 6000 8000 10000
401
             KK
                   22S SUB-WATER SHED .
402
             KM
                 Compute hydrograph for 22S
403
             ВA
                  7.55
404
             LS
                 3.000
                         62.90
405
             UD
                  20.4
             * **********
406
             KK ComllA
407
             KM Combine two hydrographs at Node 11
408
```

```
ID.....1.....2.....3.....4.....5.....6......7.....8.....9.....10
LINE
                   20S SUB-WATER SHED
409
                  Compute hydrograph for 20S
             KM
410
             BA 10.57
 411
             LS 2.847
                            60
 412
              UD 24.0
* **********
             UD
 413
             KK Coml1B
 414
             KM Combine two hydrographs at Node 11
 415
 416
 417
             KK
                  Rt12
                  Route hydrograph to Node 12
 418
             ΚM
                  1 STOR -1
0 202.5 312.74
 419
                                        870.9 2706.99 3523.96 4130.87
              sv
 420
             SQ 0 1000 2000
                                        4000 6000 8000 10000
 421
 422
              KK
                   18S SUB-WATER SHED
 423
              KM Compute hydrograph for 18S
 424
 425
                 2.885
                            60
              UD 16.5
 427
              KK Com12
              KM Combine two hydrographs at Node 12
 428
              HC 2 * **************
 429
 430
                   Rt13
                  Route hydrograph to Node 13
 431
              RS 1 STOR -1
SV 0 71.07 113.63 427.96 987.6 1443.8 1838.89
SQ 0 1000 2000 4000 6000 8000 10000
 432
 434
 435
              KK
                    16S SUB-WATER SHED
                  Compute hydrograph for 16S
 436
              KM
               437
              BA
              LS
 438
              UD
 439
 440
              KM Combine two hydrographs at Node 13
 441
 442
```

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```
LINE
             ID......1.....2......3......4.....5.....6.....7.....8.....9.....10
 443
             KK
                    15S SUB-WATER SHED
 444
             ΚM
                  Compute hydrograph for 15S
445
             BA
                  25.08
 446
             LS
                 3.517
                            60
             UD 36.4
 447
448
             KK Com13B
 449
                 Combine two hydrographs at Node 13
 450
451
             ΚK
                   Rt14
452
             KM
                  Route hydrograph to Node 14
               V 0 325.09 531.58 2194.95 4313.68 5830.17 7281.01
Q 0 1000 2000 4000 6000 8000 10000
453
             RS
 454
             sv
455
             SQ
456
             KK
                    13S SUB-WATER SHED
457
             KM
                  Compute hydrograph for 13S
458
             BA
                  19.76
                  3.807
 459
             LS
                            60
 460
             UD
                   32.6
              * *********
461
462
             KM
                 Combine two hydrographs at Node 14
463
             HC 2
464
                   14S SUB-WATER SHED
             KK
465
             ΚM
                 Compute hydrograph for 14S
466
             BA
                  9.53
467
                  3.060
                            60
             LS
468
             UD
               D 22.9
*********
469
             KK Coml4B
470
             КМ
                 Combine two hydrographs at Node 14
471
               C 2
             HС
472
                   Rt15
473
             KM
                  Route hydrograph to Node 15
                  1 STOR -1 0 208.71 319.05 1791.94 3107.58 4264.72 5131.9
 474
 475
             sv
476
             SQ 0 1000 2000
                                       4000 6000 8000 10000
```

```
LINE
            ID.....1....2....3.....4.....5.....6.....7....8.....9....10
477
                  11S SUB-WATER SHED
            KK
478
                Compute hydrograph for 11S
            KM
479
            BA
                 8.20
                2.970
                       61.62
480
            LS
481
            UD
                 12.2
482
            KK
                Com15
 483
            KM
                Combine two hydrographs at Node 15
484
            HC 2
485
            кĸ
                 Rt16
486
            KM
                Route hydrograph to Node 16
            RS 1 STOR -1
SV 0 197.28 298.23 1677.59 3541.79 4950.66 5984.55
SQ 0 1000 2000 4000 6000 8000 10000
487
 488
489
490
            KK
                   7S SUB-WATER SHED
491
            ΚM
                Compute hydrograph for 7S
492
            RΑ
                29.41
493
            LS
                 3.141
                          60
494
            UD
            495
            KK
                 Com16
 496
            ΚM
                Combine two hydrographs at Node 16
497
            498
            KK
                 Rt17
            499
 500
 501
 502
 503
                   6S SUB-WATER SHED
            KK
 504
            KM
                Compute hydrograph for S6
 505
            BA
                 9.21
 506
            LS
                 2.183
                          60
 507
            UD
                 12.9
 508
            KK
                Com17
 509
                Combine two hydrographs at Node 17
            KM
 510
             HC 2
```

```
LINE
             ID.....1....2.....3.....4.....5.....6.....7,.....8.....9.....10
 511
             KK
                  Rt18
 512
             ΚM
                 Route hydrograph to Node 18
                     1 STOR -1
0 388.62 558.69 807.92 1617.19 3723.86 4996.12
 513
             RS
 514
             sv
 515
             SO
                                      4000 6000 8000 10000
516
             KK
                   4S SUB-WATER SHED
 517
                 Compute hydrograph for 4S
             KM
 518
             BA
                 22.35
                2.408
 519
             LS
                           60
             UD
                  19.6
             * ***********
521
             KK Com18A
522
             KM Combine two hydrographs at Node 18
             HC 2
523
524
             KK
                   3S SUB-WATER SHED
525
             KМ
                Compute hydrograph for 3S
526
             BA
                 4.49
527
             LS
                 1.153
                           60
528
                16.0
             ŪĐ
529
             KK Com18B
530
             KM
                Combine two hydrographs at Node 18
531
             HC
                   2
532
             KK
                  Rt19
                 Route hydrograph to

1 STOR -1

0 130.79 184.8 301.29 542.75 727.63 1178.32
533
             KM
534
             RS
535
             sv
              Q 0 1000 2000
536
             SQ
                                      4000
                                             6000 8000 10000
537
                    2S SUB-WATER SHED
538
                 Compute hydrograph for S2
539
                 5.35
540
             LS
                 0.992
                           60
541
             UD
                 10.0
                       *****
542
             KK Com19A
543
             KM Combine two hydrographs at Node 19
544
             HC 2
```

| LINE  | ID12345678910  |
|-------|--|
| 545   | KK 1S SUB-WATER SHED   |
| 546   | KM Compute hydrograph for 1S   |
| 547   | BA 7.47  |
| 548   | LS 1,659 60  |
| 549   | UD 20.4  |
| 343   | * **********   |
| 550   | KK Com19B  |
| 551   | KM Combine two hydrographs at Node 19                                    |
| 552   | HC 2   |
|       | * ***************  |
|       | <ul> <li>Start calculating hydrograph for the sub water sheds</li> </ul> |
|       | <ul> <li>* that drain to the Raymondville drain.</li> </ul>              |
|       | * *********************  |
| 553   | KK DIV1  |
| 554   | KM Diversion to Raymondville Drain                                       |
| 555   | DR DIV1  |
| 555   | * **********   |
| 556   | KK SC-3A   |
| 557   | KM Compute hydrograph for subwater shed SC-3A                            |
| 558   | BA 5.87  |
| 559   | LS 1.917 60  |
| 560   | UD 59  |
|       | * ************   |
| 561   | KK 20C   |
| 562   | KM Combine two hydrographs at Node 20                                    |
| 563   | HC 2   |
| 000   | * **********   |
| 564   | KK 21R   |
| 565   | KM Route hydrograph to   |
| 566   | RS 1 STOR -1   |
| 567   | SV 0 60.46 466.11 1122.68 3117.18 7667.64                                |
| 568   | SQ 0 100 300 500 1000 3000   |
|       | * ***********  |
| 569   | KK 29aR SUB-WATER SHED   |
| 570   | KM Compute hydrograph for 29aR   |
| 571   | BA 4.84  |
| 572   | LS 4.007 60  |
| 573   | UD 21.9  |
| - · • | * ************************************                                   |
| 574   | KK Com21A  |
| 575   | KM Combine two hydrographs at Node 21                                    |
| 576   | HC 2   |
| 370   | n_   |

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PAGE 18

```
ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
LINE
577
                  29R SUB-WATER SHED
578
                 Compute hydrograph for 29R
579
                 18.03
580
                4.517
             UD 31.2
581
582
             KK Com21B
583
                Combine two hydrographs at Node 21
584
585
             KK
                   22R
586
             KM
                 Route hydrograph to
587
             RS
                         STOR
                                 ~1
                               86.83 124.65 263.48 1229.11
588
             sv
                     0
                        39.74
589
             SQ
             SQ 0 100 300 * ********
                                       500
                                             1000 3000
590
                 28aR SUB-WATER SHED
             KK
591
             KM
                 Compute hydrograph for 28aR
592
             BA
                  2.35
                 5.536
593
             LS
                           60
594
             UD
                  12.0
595
                 Com22
596
                Combine two hydrographs at Node 22
597
             HC 2
598
             KK
                  Rt23
599
                 Route hydrograph to Node 23
600
             KO
                         STOR
601
             RS
             SV 0 1053.64 2827.12
SQ 0 1000 2000
602
                     0 1053.64 2827.12 4913.6 7190.13 9699.83 13784.2 18273.0
603
                                      3000
                                             4000 5000 7500 10000
604
                 24R SUB-WATER SHED
             KK
605
             KM
                 Compute hydrograph for 24R
606
             BA
                 22.22
                           60
607
             LS
                 4.088
             UD
             UD 34.4 * ************
608
609
             KK Com23A
             {\rm KM} Combine two hydrographs at Node 23
610
             HC 2
611
             HC
```

|             | · · · · · · · · · · · · · · · · · · · |
|-------------|---------------------------------------|
| LINE        | ID12345678910                         |
|             |                                       |
|             |                                       |
| 612         | KK 28R SUB-WATER SHED                 |
| 613         | KM Compute hydrograph for 28R         |
| 614         | BA 4.68                               |
| 615         | LS 7.319 60                           |
| 616         | UD 15.7                               |
| <b>V1</b> 0 | * **********                          |
|             | * Rt24                                |
|             | * Route hydrograph to Node 24         |
|             | * 25000 0.0004 0.1 TRAP 40 2          |
|             | * 25000 0.0004 0.1 1000 40 4          |
|             |                                       |
| 617         | KK 25R SUB-WATER SHED                 |
| 618         | KM Compute hydrograph for 25R         |
|             |                                       |
| 619         |                                       |
| 620         | LS 4.347 60                           |
| 621         | UD 22.3                               |
|             | * **************                      |
| 620         | W. O.D. GUD HAMED CUED                |
| 622         | KK 27R SUB-WATER SHED                 |
| 623         | KM Compute hydrograph for 27R         |
| 624         | BA 23.93                              |
| 625         | LS 3.830 60                           |
| 626         | UD 34.1                               |
|             | * ***********                         |
|             |                                       |
| 627         | KK Com24                              |
| 628         | KM Combine three hydrographs          |
| 629         | HC 3                                  |
|             | * ***********                         |
|             |                                       |
| 630         | KK Rt25                               |
| 631         | KM Route hydrograph to Node 25        |
| 632         | RD 37000 0.0004 0.1 TRAP 40 2         |
|             | * ********                            |
|             |                                       |
| 633         | KK 22R SUB-WATER SHED                 |
| 634         | KM Compute hydrograph for 22R         |
| 635         | BA 18.04                              |
| 636         | LS 2.632 61.9                         |
| 637         | UD 31.1                               |
|             | * *************                       |
|             |                                       |
| 638         | KK Com25                              |
| 639         | KM Combine two hydrographs at Node 25 |
| 640         | HC 2                                  |
|             | * ************                        |
| C 4.2       | WW 10D CUD WAREN CUED                 |
| 641         | KK 19R SUB-WATER SHED                 |
| 642         | KM Compute hydrograph for 19R         |
| 643         | BA 11.18                              |
| 644         | LS 4.714 60                           |
| 645         | UD 24.8                               |
|             | * ***********                         |

```
ID.....1.....2.....3.....4.....5......6......7.....8......9.....10
LINE
 646
              KK Com23B
              KM Combine three hydrographs at Node 23
 647
              HC 3
 648
              KK
                   Rt26A
 649
                   Route hydrograph to La Sal Viejo diversion
 650
              КM
 651
 652
              RS
                           STOR
                                     -1
              SV 0 31.13 45.65 55.71 440.39 728.35 1179.82 1531.01 SQ 0 1000 2000 3000 4000 5000 7500 10000
 653
 654
                    DIV3
 655
              кĸ
                   Diversion to La Sal Viejo
 656
              KM
              DT
                    DIV3
 657
               DI 0 4 89 340
DQ 0 0 15 188
                                                                   3485
                                                                           5890
                                                   1183
                                                           2186
              DI
 65B
 659
                                                   679
                                                           1150
                                                                   1700
                                                                           2800
 660
               ΚK
                   Rt26B
                   Route hydrograph to Node 26
 661
               KM
                    1
 662
               KO
                             1
                            STOR
                                      -1
 663
               RS
                       0 196.89 297.78 546.45 982.63 1367.28 2212.32 2871.48
 664
               SV
                 0 1000 2000 3000
                                                  4000 5000 7500 10000
 665
               SQ
                  20R SUB-WATER SHED
 666
               KK
                   Compute hydrograph for 20R
 667
               KM
               BA 18.78
LS 2.990 62.13
UD 20.6
 669
 670
 671
               кк
                  Com26
                  Combine two hydrographs
               KM
 672
               HC
. 673
                     2
               * DIV4
                 Diversion to southern tributary of main Raymondville channel
               * 0 8000 10000
* 0 50 50
                    Rt27A
  674
               KK
                    Route hydrograph to Node 27
               ΚM
 675
  676
               KO
                     1
1
                             1
                             STOR
               RS
  677
                        0 1348.58 4980.12 8035.27 10783.8 14313.8 21699.7 25397.7
                 V 0 1348.58 4980.12 8035.27 10783.8 14313.8 21699.7 25397.7 Q 0 1000 2000 3000 4000 5000 7500 10000
               sv
  678
  679
               SQ
```

```
LINE
              10. \dots 10. \dots 2\dots 3\dots 4\dots 5\dots 6\dots 7\dots 8\dots 9\dots 10
680
                   13R SUB-WATER SHED
              KK
 681
              KM
                  Compute hydrograph for 13R
 682
              ва
                  11.50
 683
              LS
                 3.032
                             60
 684
              UD
                  16.3
 685
              KK Com27A
 686
              KM Combine two hydrographs at Node 27
              HC 2
 687
              * DIV4
                Diversion from main Raymondville channel
                 DIV4
                 14R SUB-WATER SHED
 688
              KK
 689
              KM Compute hydrograph for 14R
 690
              BA
                   9.24
                  3.521
 691
              T.S
                          64.37
 692
              UD
                  22.6
                  Com
              * Combine two hydrographs
              KK Rt27B
KM Route hydrograph to Node 27
 693
 694
                     1
 695
              ко
                             1
 696
              RS
                           STOR
                V 0 118.49 170.85 226.03 273.73 485.95 500.0

Q 0 48.6 83.88 129.49 173.38 228.78 20000.0
 697
              sv
 698
              SQ
 699
              KK Com27B
 700
              KM Combine two hydrographs at Node 27
              701
              НC
 702
                   Rt28
              KK
 703
              ΚM
                  Route hydrograph to Node 28
 704
              KO
                           STOR
 705
              RS
                                    -1
                       0 312.83 999.33 1918.42 2687.59 3301.82 4973.7 6268.16
 706
              sv
                0 1000 2000
 707
                                          3000 4000 5000
              SQ
 708
                  11R SUB-WATER SHED
              KK
 709
              ΚM
                  Compute hydrograph for 11R
                 10.09
3.768
11.0
                          61.13
```

```
LINE
             ID.....1.....2......3.....4......5......6......7.....8......9.....10
713
             KK Com28A
714
             KM Combine two hydrographs at Node 28
715
             HС
                  8R SUB-WATER SHED
716
             KK
717
                 Compute hydrograph for 8R
             KΜ
                11.62
5 C
718
             BA
719
                 5.671
             LS
                        61.49
720
             UD 11.8
             un
721
             KK Com28B
 722
                 Combine two hydrographs at Node 28
             KM
723
             HC
                   2
724
             KK
                  Rt29
725
                 Route hydrograph to Node 29
             KM
726
                  1 1
1 STOR
727
             SV 0 449.95 1513.48 2080.16 2620.81 3076.31 4216.6 5147.07 SQ 0 1000 2000 3000 4000 5000 7500 10000
728
729
730
                 10R SUB-WATER SHED
             KK
731
             KM Compute hydrograph for 10R
732
             BA
                 21.47
733
                 2.724
                           60
             LS
             UD 19.2
734
735
             KK
                 Com29
736
             KM
                 Combine two hydrographs at Node 29
 737
             HC
             HC 2
738
             KK
                  Rt30
739
                 Route hydrograph to Node 30
             KM
                  l ydrogra
l 1
l STOR
0 208 42
 740
             KO
 741
             RS
               742
             sv
 743
             SQ
                     SUB-WATER SHED
 745
                 Compute hydrograph for 6R
                16.37
3.175 60
28.0
 747
 748
```

```
LINE
             ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
 749
             KK Com30A
 750
             KM
                 Combine two hydrographs at Node 30
 751
             HC 2
 752
                   4R SUB-WATER SHED
             KK
                 Compute hydrograph for 4R
 753
             KM
 754
             BA
                  4.73
                            60
 755
             LS
                  2.992
 756
             UD
                  15.9
 757
             KK Com30B
 758
             KM
                 Combine two hydrographs at Node 30
             HC 2
 759
 760
             KK
                   Rt31
 761
             ĸм
                  Route hydrograph to Node 31
 762
                            1
             KO
                   1
1
                          STOR
                                   -1
 763
             RS
               7 0 555.09 2027.13 2913.81 3589.64 4070.74 5120.11 6031.24
2 0 1000 2000 3000 4000 5000 7500 10000
 764
             SV
 765
             SO
 766
             KK
                   2R SUB-WATER SHED
             KM Compute hydrograph for 2R
 767
 768
             BA
                  5.58
                 1.806
 769
             LS
                            60
 770
             UD
                  11.4
              * ******
 771
             KK Com31A
 772
             {\it KM} Combine two hydrographs at Node 31
             HC 2
 773
 774
             KK
                   3R SUB-WATER SHED
 775
             KM Compute hydrograph for 3R
 776
             BA
                  4.47
                 2.472
 777
                            60
             LS
 778
             UD
                 13.8
 779
             KK Com31B
             KM Combine two hydrographs at Node 31
 780
             HC
             HC 2 * *************
 781
```

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```
LINE
             ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
782
             KK
                  Rt32
783
             ΚM
                 Route hydrograph to Node 32
                   1
784
             KO
785
             RS
                     1.
                         STOR
786
             sv
                     0 1067.34 3337.22
                                        4909 6271.22 7335.81 9532.02 11388.7
787
             SQ 0 1000 2000
* *******
             SQ
                                        3000 4000
                                                     5000 7500 10000
788
             KK
                  1R SUB-WATER SHED
789
                 Compute hydrograph for 1R
             KM
790
             ΒA
                 16.89
791
             LS
                 1.395
                           60
792
             m
             UD 19.6
* ******************
793
             KK
                 Com32
794
             KM
                 Combine two hydrographs at Node 32
             HС
                   2
796
             KK
             KM Diversion from Raymondville main channel to La Sal Viejo
797
798
             KK 17R SUB-WATER SHED
KM Compute hydrograph for 17R
799
800
801
             BA
                  6.47
802
             LS
                 2.955
                           60
803
             804
             KK Com33A
805
             KM Combine two hydrographs at La Sal Viejo
806
             HC
             HC 2
807
             KK
                 23R SUB-WATER SHED
808
             KM
                 Compute hydrograph for 23R
809
             BA
                 94.54
810
             LS
                 2.901
                           60
             UD 68.9
811
             UD
812
             KK Com33B
             KM Combine two hydrographs at La Sal Viejo
813
```

|            | HEC-1 INPUT  | PAGE 25 |
|------------|--|---------|
| LINE       | ID12345678910                                      |         |
| 815        | KK LSV   |         |
| 816<br>817 | KM Route hydrograph through La Sal Viejo<br>KO 1 1 |         |

818 819 820 1 0 0 STOR 1690 163 KO RS SV SQ \* -1 4532 465 825 17040 18480 1230 1490 1550

SCHEMATIC DIAGRAM OF STREAM NETWORK

|      | SCHEMATIC DIA          | GRAM OF STREAM NETWORK                |
|------|------------------------|---------------------------------------|
| LINE | (V) ROUTING            | (>) DIVERSION OR PUMP FLOW            |
| NO.  | (.) CONNECTOR          | (<) RETURN OF DIVERTED OR PUMPED FLOW |
| 5    | SC-7A<br>V<br>V        |                                       |
| 11   | 1R<br>•                |                                       |
| 17   | . SC-7B                |                                       |
| 22   | 1C<br>V<br>V           |                                       |
| 25   | 2R<br>•                |                                       |
| 31   | SC-7C                  |                                       |
| 36   |                        | SC-6A                                 |
| 41   | 2C<br>V<br>V           |                                       |
| 44   | 3R<br>•                |                                       |
| 50   | . SC-6B                |                                       |
| 55   |                        | SC-7D<br>V                            |
|      | :                      | V<br>3R                               |
| 66   | 3C<br>V<br>V           |                                       |
| 69   | 4R<br>•                |                                       |
| 74   | . SC5A<br>. V          |                                       |
| 79   | . SACANA<br>. V<br>. V |                                       |
| 88   | 5AROUT                 |                                       |
| 94   |                        | SC5A1                                 |
| 99   | . 5AA1.<br>. V<br>. V  |                                       |
| 102  | . 5A1CAN<br>. V<br>. V |                                       |
| 109  | . 5A1RT                |                                       |
| 115  |                        | SC5B                                  |
| 120  | 401                    | ·······                               |
| 123  |                        | SC-4A<br>V<br>V                       |
| ,    |                        | 4ACANA<br>V                           |

| 137  |         |   | V<br>4AROUT                             |                           |
|------|---------|---|---|---------------------------|
|      |         |   |   |                           |
| 143  | :       | •                                       | •                                       | SC-4A1                    |
|      |         |   |   |                           |
| 1.40 |         |   |   |                           |
| 148  |         | •                                       | SC4AA1                                  | • • • • • • • • • • • • • |
|      | •       | •                                       | v<br>v                                  |                           |
| 151  | :       |   | 4A1CAN                                  |                           |
|      |         |   | V                                       |                           |
| 160  | •       | •                                       | V                                       |                           |
| 160  | •       | •                                       | 4A1ROU                                  |                           |
|      | :       |   | :                                       |                           |
| 166  |         |   |   | SC-4B                     |
|      | •       |   | •                                       |                           |
| 171  | •       |   | SC4AAB                                  | •                         |
|      | •       |   | V                                       |                           |
|      |         |   | V                                       |                           |
| 174  |         |   | 4BCANA                                  |                           |
|      | •       |   | v<br>v                                  |                           |
| 183  | •       | :                                       | 4AABRT                                  |                           |
|      |         |   |   |                           |
| 100  |         |   |   |                           |
| 189  |         |   |   | SC-4B1                    |
|      | :       |   |   |                           |
| 194  |         |   | SC-4                                    | <i></i>                   |
|      |         |   |   |                           |
| 197  | 402     |   |   |                           |
| 197  | 4C2.    | • | • |                           |
|      | v       |   |   |                           |
| 200  | 5R      |   |   |                           |
|      |         |   |   |                           |
| 205  | •       | SC-3                                    |   |                           |
|      |         |   |   |                           |
|      |         |   |   |                           |
| 210  | 5C.     | • • • • • • • • • • • • •               |   |                           |
|      | •       |   |   |                           |
| 215  |         | >                                       | DIV1                                    |                           |
| 213  | DIV1    |   |   |                           |
|      | v       |   |   |                           |
| 218  | V<br>6R |   |   |                           |
|      |         |   |   |                           |
|      |         |   |   |                           |
| 223  | •       | SC-3B                                   |   |                           |
|      | •       |   |   |                           |
| 228  | 6C.     |   |   |                           |
|      | V       |   |   |                           |
| 221  | V       |   |   |                           |
| 231  | 7R      |   |   |                           |
|      | :       |   |   |                           |
| 236  |         | SC-2                                    |   |                           |
|      |         |   |   |                           |
| 241  | 70.     |   |   |                           |
|      | v       |   |   |                           |
|      | V       |   |   |                           |
| 244  | 8R      |   |   |                           |
|      | •       |   |   |                           |
| 249  |         | SC-1                                    |   |                           |
|      | •       |   |   |                           |
| 05:  |         |   |   |                           |
| 254  | 8C1.    | • |   |                           |
|      | •       |   |   |                           |
| 257  | :       | SC-8                                    |   |                           |
|      |         | V                                       |   |                           |
| 262  |         | V                                       |   |                           |
| 262  | •       | 1BR                                     |   |                           |

|          | •      | •       |        |  |
|----------|--------|---------|--------|--|
|          | •      | •       | CM 10  |  |
| ,        | •      | •       | SM-18  |  |
|          | •      | •       | •      |  |
| 273      |        | 1BC1.   | ·      |  |
|          |        | , 1001. |        |  |
|          |        |         |        |  |
| 276      |        |         | SM-17  |  |
|          |        |         |        |  |
|          |        |         | -      |  |
| 281      |        | 1BC2    |        |  |
|          |        | ν       |        |  |
|          |        | v       |        |  |
| 284      |        | 2BR     |        |  |
|          |        |         |        |  |
|          |        |         |        |  |
| 290      |        |         | SM-16  |  |
|          |        | •       |        |  |
|          |        | •       |        |  |
| 295      | •      |         |        |  |
|          | •      | V       |        |  |
| 200      | •      | V       |        |  |
| 298      | •      | 3BR     |        |  |
|          | •      | •       |        |  |
| 304      | •      | •       |        |  |
| 304      | •      | •       | SM-15  |  |
|          | -      | •       | •      |  |
| 309      | -      | 200     | •      |  |
| 209      | •      |         |        |  |
|          | •      | V<br>V  |        |  |
| 312      | •      | 4BR     |        |  |
| J12      | •      | ADK.    |        |  |
|          | •      | •       |        |  |
| 318      | •      | •       | SM-14  |  |
|          | •      | •       | 301-14 |  |
|          | •      | •       | •      |  |
| ₹23      | _      | 4BC     |        |  |
|          | •      | v v     |        |  |
|          | •      | v       |        |  |
| J26      | •      | 8BR     |        |  |
|          | _      | · ·     |        |  |
|          |        |         |        |  |
| 332      |        | •       | SM-13  |  |
|          |        |         |        |  |
|          |        |         |        |  |
| 337      |        | 8C2     |        |  |
|          |        |         |        |  |
|          | •      |         |        |  |
| 340      | BC3.,  |         |        |  |
|          | v      |         |        |  |
|          | v      |         |        |  |
| 343      | 9R     |         |        |  |
|          |        |         |        |  |
|          |        |         |        |  |
| 349      |        | 29S     |        |  |
|          | •      | •       |        |  |
| 25.4     | :      | •       |        |  |
| 354      | Com9A  |         |        |  |
|          | •      |         |        |  |
| 357      | •      | ^^~     |        |  |
| 351      | •      | 285     |        |  |
|          | •      | •       |        |  |
| 362      | 007    | •       |        |  |
| 302      | Com9B  |         |        |  |
|          | v      |         |        |  |
| 365      | Rt10   |         |        |  |
|          | KCIU   |         |        |  |
|          | •      |         |        |  |
| 372      | •      | > DI    | v2     |  |
| 370      | DIV2   | D1      | V 4    |  |
| 3.0      | D1 A 7 |         |        |  |
|          | •      |         |        |  |
|          | •      | 070     |        |  |
| 375      |        |         |        |  |
| 375      | •      | 27\$    |        |  |
| 375      | •      | 278     |        |  |
| 375<br>ว | Com10A | •       |        |  |

| 383 |           | 268                                     |     |  |
|-----|-----------|---|-----|--|
| 388 | •         |   | 248 |  |
|     |           |   |     |  |
| 393 | Com10B    |   |     |  |
|     | V<br>V    |   |     |  |
| 396 | Rt1I      |   |     |  |
| 401 |           |   |     |  |
| 401 |           | 228                                     |     |  |
| 406 | Com11A    |   |     |  |
|     | •         |   |     |  |
| 409 | ÷         | 208                                     |     |  |
|     | :         | :                                       |     |  |
| 414 | Com11B    | • |     |  |
| 417 | V<br>Rt12 |   |     |  |
| 41, |           |   |     |  |
| 422 | :         | 188                                     |     |  |
|     |           |   |     |  |
| 427 | Com12     |   |     |  |
|     | V         |   |     |  |
| 430 | Rt13      |   |     |  |
| 435 |           | 16S                                     |     |  |
|     | •         | •                                       |     |  |
| 440 | Com13A    |   |     |  |
|     | •         |   |     |  |
| 443 | ·         | 158                                     |     |  |
| 448 |           |   |     |  |
|     | V<br>V    |   |     |  |
| 451 |           |   |     |  |
|     |           |   |     |  |
| 456 |           | 138                                     |     |  |
| 461 |           |   |     |  |
| 401 | COMITAR   |   |     |  |
| 464 | •         | 148                                     |     |  |
|     | •         |   |     |  |
| 469 | Com14B    | • • • • • • • •                         |     |  |
| 472 | V         |   |     |  |
| 412 | Rt15      |   |     |  |
| 477 | •         | 118                                     |     |  |
|     |           | •                                       |     |  |
| 482 | Com15     |   |     |  |
|     | V         |   |     |  |
| 485 | Rt16      |   |     |  |
| 490 |           | 78                                      |     |  |
| •   |           |   |     |  |
| 495 | <br>Com16 |   |     |  |
|     | V<br>V    |   |     |  |
|     |           |   |     |  |

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| 7   | Rt17           |               | ,  |
|---|----------------|---------------|--|
| 503   | :              | 65            |  |
| 508   | Com17          |               |  |
| 511   | V<br>V<br>Rt18 |               |  |
| 516   | :              | 48            |  |
| 521   | Com18A         |               |  |
| 524   | ·<br>·         | 35            |  |
| 529   | Com18B<br>V    |               |  |
| 532   | V<br>Rt19      |               |  |
| 537   | :              | 2S            |  |
| 542   | Com19A         |               |  |
| 545   |                | 18            |  |
| 550   | Com19B         |               |  |
|   |                | ,<br>DIV1     | DIV1   |
|   |                |               |  |
| 556   |                |               | SC-3A  |
| 556<br>561  |                | 20¢.          | SC-3A  |
| 561   | •              | v             | SC-3A<br>:<br>:                                |
|   |                | v             | •  |
| 561<br>564  | •              | v             | 29aR   |
| 561<br>564<br>569   |                | V<br>V<br>21R | 29aR   |
| 561<br>564<br>569<br>574                                    |                | V<br>V<br>21R | 29aR<br>29R                                    |
| 561<br>564<br>569<br>574<br>577                             |                | V V V 21R     | 29aR   |
| 561<br>564<br>569<br>574<br>577<br>582                      |                | V V V 21R     | 29aR<br>29R                                    |
| 561<br>564<br>569<br>574<br>577<br>582                      |                | V V 21R       | 29aR<br>-<br>29R<br>-<br>-<br>-<br>-<br>-<br>- |
| 561<br>564<br>569<br>574<br>577<br>582<br>585<br>590        |                | V V V 21R     | 29aR<br>-<br>29R<br>-<br>-<br>-<br>-<br>-<br>- |
| 561<br>564<br>569<br>574<br>577<br>582<br>585<br>590        |                | V V V 21R     | 29aR<br>-<br>29R<br>-<br>-<br>-<br>-<br>-<br>- |
| 561<br>564<br>569<br>574<br>577<br>582<br>585<br>590<br>595 |                | V V V 21R     | 29aR<br>29R<br>28aR                            |

| 612 | •      | :           | 28R            |       |     |
|-----|--------|-------------|----------------|-------|-----|
| 617 |        | :           | :              | 25R   |     |
| 622 |        |             | :              |       | 27R |
| 627 |        | •           | <br>Com24<br>V |       |     |
| 630 | :      | ·<br>·      | V<br>Rt25      |       |     |
| 633 | :      | ·<br>·      | :              | 22R   |     |
| 638 | •      | •           | Com25          |       |     |
| 641 | ·<br>· | •           | ·<br>·         | 19R . |     |
| 646 | :      | Com23B<br>V |                |       |     |
| 649 | :      | V<br>Rt26A  |                |       |     |
| 657 | •      | •           | > DIV          | 3     |     |
| 655 |        | DIV3<br>V   | . 21.          |       |     |
| 660 | :      | Rt26B       |                |       |     |
| 666 | :      |             | 20R            |       |     |
| 671 | ·<br>· | Com26<br>V  |                |       |     |
| 674 |        | V<br>Rt27A  |                |       |     |
| 680 | :      | :           | 13R            |       |     |
| 685 | :      | Com27A      |                |       |     |
| 688 | :      | ·<br>·      | 14R<br>V       |       |     |
| 693 | :      | ·<br>·      | V<br>Rt27B     |       |     |
| 699 | :      | Com27B<br>V |                |       |     |
| 702 | :      | V<br>Rt28   |                |       |     |
| 708 | :      |             | 11R .          |       |     |
| 713 | :      | Com28A      |                |       |     |
| 716 |        |             | 8R .           |       |     |
| 721 |        |             |                |       |     |
| 724 |        | V<br>Rt29   |                |       |     |
| 730 |        | :           | 10R            |       |     |

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| ,    |               | •       |
|------|---------------|---------|
|      | . v           | • • • • |
| 738  | . V           |         |
| /30  | . Rt30        |         |
|      |               |         |
| 744  | . 6F          | 2       |
|      |               | •       |
| 749  |               |         |
| 743  | . Com30A      | • • •   |
|      |               |         |
| 752  | . 4           | R       |
|      | •             | •       |
| 757  |               | •       |
|      | . Com30B      | • • •   |
|      | . v           |         |
| 760  | Rt31          |         |
|      | •             |         |
| 766  |               | _       |
| , 00 | . 2           | R       |
|      |               | •       |
| 771  | . Com31A      | • • •   |
|      | •             |         |
| 774  |               | _       |
|      | . 3           | R       |
|      |               | •       |
| 779  | . Com31B      |         |
|      | · v           |         |
| 782  | . V<br>. Rt32 |         |
|      |               |         |
|      |               |         |
| ~~9  | . 1           | ₹       |
|      | •             | •       |
| 793  |               | •       |
|      | · Com32       | ••      |
|      |               |         |
| 798  |               | .< DIV3 |
| 796  | · . DI        | V3      |
|      | •             | •       |
| 799  |               | . 17R   |
|      |               |         |
| 004  | •             |         |
| 804  | Com3          | 3A      |
|      | •             | •       |
| 807  | •             | . 23R   |
|      |               | . 254   |
| 912  | •             |         |
| 812  | · Com3        | 3в      |
|      | :             | V<br>V  |
| 815  | т.            | sv      |
|      | -             | -       |

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

|   |               |           |              | TITE II         | THOURS, AREA | HOURS, AREA IN SQUARE MILES |            |               |                  |                      |
|---|---------------|-----------|--------------|-----------------|--------------|-----------------------------|------------|---------------|------------------|----------------------|
|   | OPERATION     | STATION   | PEAK<br>FLOW | TIME OF<br>PEAK | AVERAGE FL   | OW FOR MAXIN                | MUM PERIOD | BASIN<br>AREA | MAXIMUM<br>STAGE | TIME OF<br>MAX STAGE |
| + |               |           |              |                 | 6-HOUR       | 24-HOUR                     | 72-HOUR    |               |                  | `                    |
| + | HYDROGRAPH AT | SC-7A     | 13.          | 72.00           | 13.          | 12.                         | 10.        | 18.40         |                  |                      |
|   | ROUTED TO     |           |              |                 |              |                             |            |               |                  |                      |
| + |               | 1R        | 12.          | 81.00           | 12.          | 12.                         | 10.        | 18.40         |                  |                      |
| + | HYDROGRAPH AT | SC-7B     | 44.          | 37.00           | 44.          | 36.                         | 17.        | 9.82          |                  |                      |
|   | 2 COMBINED AT |           |              |                 |              |                             |            |               |                  |                      |
| + |               | 1C        | 45.          | 38.00           | 44.          | 38.                         | 24.        | 28.22         |                  |                      |
| + | ROUTED TO     | 2R        | 42.          | 46.00           | 42.          | 36.                         | 23.        | 28.22         |                  |                      |
|   | HYDROGRAPH AT | 90 30     | 0.7          | 44.00           | 0.7          |                             |            |               |                  |                      |
| + | UVDDOCTABU AR | SC-7C     | 97.          | 44.00           | 97.          | 87.                         | 49.        | 23.00         |                  |                      |
| + | HYDROGRAPH AT | SC-6A     | 159.         | 67.00           | 159.         | 154.                        | 119.       | 41.66         |                  |                      |
| + | 3 COMBINED AT | 2C        | 256.         | 53,00           | 255.         | 243.                        | 186.       | 92.88         |                  |                      |
| , | ROUTED TO     | 20        | 230.         | 33,00           | 233.         | 243.                        | 100.       | 92.00         |                  |                      |
| + | ROOTED TO     | 3R        | 255.         | 55.00           | 254.         | 243.                        | 185.       | 92.88         |                  |                      |
| + | HYDROGRAPH AT | SC-6B     | 271.         | 37.00           | 268.         | 231.                        | 116.       | 6.58          |                  |                      |
|   | HYDROGRAPH AT |           |              |                 |              |                             | 110.       | 5.00          |                  |                      |
| + |               | SC-7D     | 40.          | 42.00           | 40.          | 35.                         | 19.        | 6.15          |                  |                      |
| + | ROUTED TO     | ЭR        | 39.          | 45.00           | 38.          | 34.                         | 19.        | 6.15          |                  |                      |
|   | 3 COMBINED AT |           |              |                 |              |                             |            |               |                  |                      |
| + |               | 3C        | 482.         | 44.00           | 478.         | 437.                        | 305.       | 105.61        |                  |                      |
| + | ROUTED TO     | 4R        | 477.         | 46.00           | 473.         | 434.                        | 305.       | 105.61        |                  |                      |
|   | HYDROGRAPH AT |           |              |                 |              |                             |            |               |                  |                      |
| + |               | SC5A      | 491.         | 66.00           | 491.         | 476.                        | 369.       | 38.43         |                  |                      |
| + | ROUTED TO     | 5ACANA    | 418.         | 82.00           | 415.         | 374.                        | 233.       | 38.43         |                  |                      |
| + |               |           |              |                 |              |                             |            | 4             | 140.85           | 82.00                |
| + | ROUTED TO     | 5AROUT    | 417.         | 86.00           | 414.         | 373.                        | 230.       | 38.43         |                  |                      |
|   | HYDROGRAPH AT | 00571     | 220          | 20.00           | 220          | 220                         | 00         | F .C.4        |                  |                      |
| + | 2 COMBINED AT | SC5A1     | 329.         | 29.00           | 320.         | 238.                        | 98.        | 5.64          |                  |                      |
| + | 2 COMBINED AI | 5AA1      | 418.         | 86.00           | 415.         | 373.                        | 231.       | 44.07         |                  |                      |
| + | ROUTED TO     | 5a1CAN    | 340.         | 98.00           | 334.         | 279.                        | 171.       | 44.07         |                  |                      |
| + |               | ALIT OUTA | J40.         | 55.00           | 224.         | 213.                        | 1,1.       | 33.07         | 116.96           | 98.00                |
| + | ROUTED TO     | 5A1RT     | 338          | 106.00          | 330.         | 273.                        | 169.       | 44.07         |                  |                      |
|   | HYDROGRAPH AT | G2.00016  | 300.         |                 | ,            | 2.5.                        | 200,       |               |                  |                      |
| + |               | SC5B      | 459.         | 27.00           | 445.         | 314.                        | 123.       | 9.02          |                  |                      |
| + | 2 COMBINED AT | 4C1       | 459.         | 27.00           | 445.         | 314.                        | 169.       | 53.09         |                  |                      |
|   |               |           | -            |                 |              |                             |            |               |                  |                      |

| +      | HYDROGRAPH AT           | SC-4A      | 5 <b>5</b> 7. ` | 52.00  | 556.         | 52 <b>4</b> .        | 350.        | 30.73            |        |        |
|--------|-------------------------|------------|-----------------|--------|--------------|----------------------|-------------|------------------|--------|--------|
| +      | ROUTED TO               | 4ACANA     |                 | 121.00 | 42.          | 39.                  | 27.         | 30.73            |        |        |
| +      | ROUTED TO               | 4AROUT     | 42              | 126.00 | 42.          | 20                   | 27          | 26. 22           | 171.84 | 121.00 |
| +      | HYDROGRAPH AT           | SC-4A1     | 502.            | 25.00  | 483.         | 39.<br>311.          | 27.<br>115. | 30.73<br>7.34    |        |        |
| +      | 2 COMBINED AT           | SC4AA1     | 502.            | 25.00  | 483.         | 311.                 | 115.        | 38.07            |        |        |
| ++     | ROUTED TO               | 4A1CAN     | 205.            | 35.00  | 179.         | 89.                  | 32.         | 38.07            | 141.07 | 35.00  |
| +      | ROUTED TO               | 4A1ROU     | 201.            | 38.00  | 175.         | 89.                  | 32.         | 38.07            | 141.07 | 33.00  |
| +      | HYDROGRAPH AT           | SC-4B      | 368.            | 21.00  | 340.         | 173.                 | 59.         | 5.44             |        |        |
| +      | 2 COMBINED AT           | SC4AAB     | 368.            | 21.00  | 340.         | 194.                 | 91.         | 43.51            |        |        |
| ++     | ROUTED TO               | 4BCANA     | 196.            | 40.00  | 174.         | 94.                  | 35.         | 43.51            | 113.75 | 40.00  |
| ·<br>+ | ROUTED TO               | 4AABRT     | 192.            | 44.00  | 169.         | 93.                  | 35.         | 43.51            |        |        |
| +      | HYDROGRAPH AT           | SC-4B1     | 338.            | 26.00  | 326.         | 223.                 | 86.         | 6.07             |        |        |
| +      | 2 COMBINED AT           | SC-4       | 338.            | 26.00  | 326.         | 230.                 | 120.        | 49.58            |        |        |
| +      | 3 COMBINED AT ROUTED TO | 4C2        | 962.            | 29.00  | 947.         | 826.                 | 531.        | 208.28           |        |        |
| +      | HYDROGRAPH AT           | 5R         | 935.            | 31.00  | 919.         | 815.                 | 529.        | 208.28           |        |        |
| +      | 2 COMBINED AT           | SC-3       | 663.            | 77.00  | 662.         | 650.                 | 547.        | 56.44            |        |        |
| +      | DIVERSION TO            | 5C<br>DIV1 | 1120.           | 48.00  | 1113.<br>74. | 10 <b>64.</b><br>68. | 967.<br>57. | 264.72<br>264.72 |        |        |
| +      | HYDROGRAPH AT           | DIV1       | 1045.           |        | 1039.        |                      | 910.        | 264.72           |        |        |
| +      | ROUTED TO               | 6R         | 1029.           | 53.00  | 1025.        | 993.                 | 905.        | 264.72           |        |        |
| +      | HYDROGRAPH AT           | SC-3B      | 110.            | 50.00  | 110.         | 103.                 | 66.         | 6.71             |        |        |
| +      | 2 COMBINED AT           | 6C         | 1136.           | 52.00  | 1132.        | 1089.                | 970.        | 271.43           |        |        |
| +      | ROUTED TO HYDROGRAPH AT | 7R         | 1136.           | 53.00  | 1131.        | 1089.                | 970.        | 271.43           |        |        |
| +      | 2 COMBINED AT           | SC-2       |                 |        | 23.          | 22.                  | 18.         |                  |        |        |
| +      | ROUTED TO               | 7C         |                 |        | 1148.        | 1107.                |             |                  |        |        |
| +      |                         | 9R         | 1146.           | 57.00  | 1142.        | 1106.                | 984.        | 282.91           |        |        |

|   | HYDROGRAPH AT |       | ٠     |       |       |       |       |        |
|---|---------------|-------|-------|-------|-------|-------|-------|--------|
| + |               | SC-1  | 197.  | 53.00 | 196.  | 186.  | 127.  | 7.07   |
| + | 2 COMBINED AT | 8C1   | 1341. | 56.00 | 1335. | 1288. | 1108. | 289.98 |
| + | HYDROGRAPH AT | SC-8  | 410.  | 67.00 | 410.  | 399.  | 316.  | 19.99  |
| + | ROUTED TO     | 1BR   | 410.  | 71.00 | 409.  | 398.  | 315.  | 19.99  |
| + | HYDROGRAPH AT | SM-18 | 160.  | 72.00 | 160.  | 156.  | 125.  | 27.11  |
| + | 2 COMBINED AT | 1BC1  | 569.  | 71.00 | 569.  | 553.  | 440.  | 47.10  |
| + | HYDROGRAPH AT | SM-17 | 303.  | 50.00 | 302.  | 285.  | 187.  | 7.03   |
| + | 2 COMBINED AT | 1BC2  | 799.  | 62.00 | 797.  | 768.  | 608.  | 54.13  |
| + | ROUTED TO     | 2BR   | 799.  | 63.00 | 797.  | 768.  | 608.  | 54.13  |
| + | HYDROGRAPH AT | SM-16 | 263.  | 76.00 | 262.  | 257.  | 215.  | 25.18  |
| + | 2 COMBINED AT | 2BC   | 1044. | 65.00 | 1041. | 1008. | 818.  | 79.31  |
| + | ROUTED TO     | 3BR   | 1043. | 66.00 | 1041. | 1008. | 817.  |        |
| + | HYDROGRAPH AT | SM-15 | 291.  | 54.00 | 290.  | 277.  | 193.  | 11,10  |
| + | 2 COMBINED AT | ЗВС   | 1306. | 63.00 | 1303. | 1259. | 1000. | 90.41  |
| + | ROUTED TO     | 4BR   | 1304. | 64.00 |       |       |       |        |
|   | HYDROGRAPH AT |       |       |       | 1301. | 1258. | 1000. | 90.41  |
| + | 2 COMBINED AT | SM-14 | 300.  | 82.00 | 300.  | 295.  | 255.  | 21.60  |
| + |               | 4BC   | 1565. | 66.00 | 1561. | 1515. | 1240. | 112.01 |
| + | ROUTED TO     | 8BR   | 1564. | 67.00 | 1561. | 1515. | 1240. | 112.01 |
| + | HYDROGRAPH AT | SM-13 | 80.   | 90.00 | 80.   | 79.   | 70.   | 22.25  |
| + | 2 COMBINED AT | 8C2   | 1630. | 68.00 | 1627. | 1580. | 1304. | 134.26 |
| + | 2 COMBINED AT | 8C3   | 2891. | 63.00 | 2886. | 2816. | 2382. | 424.24 |
| + | ROUTED TO     | 9R    | 2888. | 66.00 | 2883. | 2813. | 2380. | 424.24 |
| + | HYDROGRAPH AT | 298   | 266.  | 41.00 | 263.  | 235.  | 128.  | 12.28  |
| + | 2 COMBINED AT | Com9A | 2975. | 64.00 | 2970. | 2900. | 2465. | 436.52 |
| + | HYDROGRAPH AT | 28S   | 394.  | 54.00 | 393.  | 372.  | 253.  | 25.91  |
| + | 2 COMBINED AT | Com9B | 3329. | 62.00 | 3322. | 3230. | 2701. | 462.43 |
| + | ROUTED TO     | Rt10  | 3217. | 70.00 | 3211. | 3136. | 2676. | 462.43 |

| + | DIVERSION TO    | DIV2   | 919.  | 70.00 | 918.  | 896.  | 765.  | 462.43         |
|---|-----------------|--------|-------|-------|-------|-------|-------|----------------|
| + | HYDROGRAPH AT   | DIV2   | 2298. | 70.00 | 2294. | 2240. | 1911. | 462.43         |
| + | HYDROGRAPH AT   | 275    | 472.  | 29.00 | 460.  | 343.  | 141.  | 12.15          |
| + | 2 COMBINED AT   | Com10A | 2307. | 70.00 | 2303. | 2251. | 1937. | 474.58         |
| + | HYDROGRAPH AT   | 268    | 448.  | 28.00 | 436.  | 314.  | 125.  | 10.55          |
| + | HYDROGRAPH AT   | 24S    | 157.  | 29.00 | 153.  | 114.  | 47.   | 3.83           |
| + | 3 COMBINED AT   | Com10B | 2316. | 69.00 | 2313. | 2263. | 1970. | 488.96         |
| + | ROUTED TO       | Rt11   | 2267. | 76.00 | 2264. | 2226. | 1967. | 488.96         |
| + | HYDROGRAPH AT   | 22\$   | 227.  | 35.00 | 224.  | 187.  | 89.   | 7.55           |
| + | 2 COMBINED AT   | Com11A | 2281. | 76.00 | 2279. | 2242. | 2010. | 496.51         |
| + | HYDROGRAPH AT   | 205    | 268.  | 39.00 | 265.  | 232.  | 121.  | 10.57          |
| + | 2 COMBINED AT   | Com11B | 2317. | 74.00 | 2315. | 2284. | 2099. | 507.08         |
| + | ROUTED TO       | Rt12   | 2310. | 77.00 | 2308. | 2279. | 2098. | 507.08         |
| + | HYDROGRAPH AT   | 18\$   | 168.  | 31.00 | 165.  | 128.  | 55.   | 4.69           |
| + | 2 COMBINED AT   | Com12  | 2313. | 77.00 | 2311. | 2284. | 2128. | 511.77         |
| + | ROUTED TO       | Rt13   | 2311. | 79.00 | 2309. | 2283. | 2128. | 511.77         |
| + | HYDROGRAPH AT   | 168    | 159.  | 39.00 | 158.  | 138.  | 71.   | 9.60           |
| + | 2 COMBINED AT   | Com13A | 2327. | 78.00 | 2325. | 2303. | 2187. | 521.37         |
| + | HYDROGRAPH AT   | 158    | 289.  | 52.00 | 287.  | 270.  | 178.  | 25.08          |
| + | 2 COMBINED AT . | Com13B | 2555. | 54.00 | 2553. | 2528. | 2362. | 546.45         |
| + | HYDROGRAPH AT   | Rt14   | 2491. | 71.00 | 2490. | 2482. | 2342. | 5 <b>46.45</b> |
| + | 2 COMBINED AT   | 135    | 216.  | 49.00 | 215.  | 199.  | 124.  | 19.76          |
| + | HYDROGRAPH AT   | Com14A | 2639. | 61.00 | 2636. | 2611. | 2455. | 566.21         |
| + | 2 COMBINED AT   | 145    | 230.  | 38.00 | 227.  | 196.  | 100.  | 9.53           |
| + | ROUTED TO       | Com14B | 2715. | 57.00 | 2713. | 2685. | 2529. | 575.74         |
| + | HYDROGRAPH AT   | Rt15   | 2661. | 67.00 | 2660. | 2641. | 2501. | 575.74         |
| 4 |                 | 115    | 376.  | 26.00 | 364.  | 250.  | 96.   | 8.20           |

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| + | 2 COMBINED AT | Com15  | 2665. | 66.00 | 2664. | 2645. | 2518. | 583.94 |  |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|--|
| + | ROUTED TO     | Rt16   | 2633. | 76.00 | 2632. | 2618. | 2496. | 583.94 |  |
| + | HYDROGRAPH AT | 75     | 390.  | 54.00 | 389.  | 368.  | 249.  | 29.41  |  |
| + | 2 COMBINED AT | Com16  | 2917. | 67.00 | 2914. | 2884. | 2719. | 613.35 |  |
| + | ROUTED TO     | Rt17   | 2914. | 68.00 | 2912. | 2882. | 2716. | 613.35 |  |
| + | HYDROGRAPH AT | 68     | 537.  | 27.00 | 521.  | 365.  | 142.  | 9.21   |  |
| + | 2 COMBINED AT | Com17  | 2920. | 68.00 | 2918. | 2889. | 2737. | 622.56 |  |
| + | ROUTED TO     | Rt18   | 2919. | 69.00 | 2917. | 2888. | 2735. | 622.56 |  |
| + | HYDROGRAPH AT | 48     | 796.  | 34.00 | 783.  | 647.  | 303.  | 22.35  |  |
| + | 2 COMBINED AT | Com18A | 3104. | 43.00 | 3085. | 3034. | 2878. | 644.91 |  |
| + | HYDROGRAPH AT | 3\$    | 310.  | 30.00 | 302.  | 231.  | 98.   | 4.49   |  |
| + | 2 COMBINED AT | Com18B | 3243. | 42.00 | 3215. | 3109. | 2916. | 649.40 |  |
| + | ROUTED TO     | Rt19   | 3236. | 43.00 | 3212. | 3107. | 2915. | 649.40 |  |
| + | HYDROGRAPH AT | 2\$    | 577.  | 23.00 | 552.  | 338.  | 122.  | 5.35   |  |
| + | 2 COMBINED AT | Com19A | 3292. | 42.00 | 3263. | 3134. | 2930. | 654.75 |  |
| + | HYDROGRAPH AT | 18     | 350.  | 35.00 | 345.  | 289.  | 137.  | 7.47   |  |
| + | 2 COMBINED AT | Com19B | 3575. | 41.00 | 3539. | 3320. | 3019. | 662.22 |  |
| + | HYDROGRAPH AT | DIV1   | 75.   | 48.00 | 74.   | 68.   | 57.   | 0.00   |  |
| + | HYDROGRAPH AT | SC-3A  | 91.   | 72.00 | 91.   | 89.   | 73.   | 5.87   |  |
| + | 2 COMBINED AT | 20C    | 151.  | 66.00 | 150.  | 148.  | 124.  | 5.87   |  |
| + | ROUTED TO     | 21R    | 134.  | 83.00 | 134.  | 132.  | 120.  | 5.87   |  |
| + | HYDROGRAPH AT | 29aR   | 73.   | 37.00 | 72.   | 61.   | 31.   | 4.84   |  |
| + | 2 COMBINED AT | Com21A | 152.  | 47.00 | 150.  | 144.  | 137.  | 10.71  |  |
| + | HYDROGRAPH AT | 29R    | 121.  | 47.00 | 120.  | 111.  | 67.   | 18.03  |  |
| + | 2 COMBINED AT | Com21B | 272.  | 47.00 | 270.  | 255.  | 202.  | 28.74  |  |
| + | ROUTED TO     | 22R    | 268.  | 49.00 | 266.  | 253.  | 200.  | 28.74  |  |
| + | HYDROGRAPH AT | 28aR   | 12.   | 30.00 | 12.   | 8.    | 3.    | 2.35   |  |

| + | 2 COMBINED AT | Com22  | 270   | 49.00 | 262   |       |      | _      |  |
|---|---------------|--------|-------|-------|-------|-------|------|--------|--|
|   | ROUTED TO     | COM22  | 270.  | 49.00 | 268.  | 254.  | 202. | 31.09  |  |
| + | HYDROGRAPH AT | Rt23   | 229.  | 63.00 | 229.  | 222.  | 190. | 31.09  |  |
| + |               | 24R    | 188.  | 50.00 | 187.  | 175.  | 112. | 22.22  |  |
| + | 2 COMBINED AT | Com23A | 398.  | 56.00 | 396.  | 379.  | 291. | 53.31  |  |
| + | HYDROGRAPH AT | 28R    | 0.    | 1.00  | 0.    | 0.    | 0.   | 4.68   |  |
| + | HYDROGRAPH AT | 25R    | 101.  | 38.00 | 100.  | 86.   | 43.  | 8.99   |  |
| + | HYDROGRAPH AT | 27R    | 243.  | 50.00 | 241.  | 225.  | 144. | 23.93  |  |
| + | 3 COMBINED AT | Com24  | 322.  | 45.00 | 320.  | 295.  | 186. | 37.60  |  |
| + | ROUTED TO     | Rt25   | 314.  | 53.00 | 312.  | 289.  | 183. | 37.60  |  |
| + | HYDROGRAPH AT | 22R    | 403.  | 46.00 | 401.  | 369.  | 223. | 18.04  |  |
| + | 2 COMBINED AT | Com25  | 699.  | 49.00 | 695.  | 638.  | 397. | 55.64  |  |
| + | HYDROGRAPH AT | 19R    | 81.   | 41.00 | 80.   | 71.   | 38.  | 11.18  |  |
| + | 3 COMBINED AT | Com23B | 1146. | 50.00 | 1140. | 1062. | 717. | 120.13 |  |
| 1 | ROUTED TO     | Rt26A  | 1146. | 50.00 | 1140. | 1062. | 717. | 120.13 |  |
| + | DIVERSION TO  | DIV3   | 658.  | 50.00 | 654.  | 608.  | 407. | 120.13 |  |
| + | HYDROGRAPH AT | DIV3   | 489.  | 50.00 | 486.  | 453.  | 310. | 120.13 |  |
| + | ROUTED TO     | Rt26B  | 484.  | 53.00 | 481.  | 450.  | 309. | 120.13 |  |
| + | HYDROGRAPH AT | 20R    | 529.  | 35.00 | 521.  | 438.  | 211. | 18.78  |  |
| + | 2 COMBINED AT | Com26  | 821.  | 42.00 | 815.  | 752.  | 506. | 138.91 |  |
| + | ROUTED TO     | Rt27A  | 626.  | 57.00 | 624.  | 602.  | 464. | 138.91 |  |
| + | HYDROGRAPH AT | 13R    | 378.  | 31.00 | 371.  | 288.  | 124. | 11.50  |  |
| + | 2 COMBINED AT | Com27A | 694.  | 48.00 | 693.  | 684.  | 559. | 150.41 |  |
| + | HYDROGRAPH AT | 14R    | 201.  | 37.00 | 198.  | 171.  | 87.  | 9.24   |  |
| + | ROUTED TO     | Rt27B  | 128.  | 50.00 | 127.  | 115.  | 74.  | 9.24   |  |
| + | 2 COMBINED AT | Com27B | 821.  | 49.00 | 819.  | 795.  | 632. | 159.65 |  |
| + | ROUTED TO     | Rt28   | 813.  | 53.00 | 811.  | 788.  | 627. | 159.65 |  |
| ÷ | HYDROGRAPH AT | 11R    | 318.  | 26.00 | 307.  | 203.  | 76.  | 10.09  |  |
|   |               |        |       |       |       |       |      |        |  |

| + | 2 COMBINED AT | Com28A | 827.  | 51.00  | 825.  | 811.  | 679.  | 169.74 |  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|--|
| + | HYDROGRAPH AT | 8R     | 43.   | 30.00  | 41.   | 28.   | 11.   | 11.62  |  |
| + | 2 COMBINED AT | Com28B | 831.  | 50.00  | 830.  | 821.  | 689.  | 181.36 |  |
| + | ROUTED TO     | Rt29   | 823.  | 55.00  | 822.  | ø08.  | 677,  | 181.36 |  |
| + | HYDROGRAPH AT | 10R    | 682.  | 34.00  | 671.  | 551.  | 256.  | 21.47  |  |
| + | 2 COMBINED AT | Com29  | 1371. | 37.00  | 1362. | 1237. | 911.  | 202.83 |  |
| + | ROUTED TO     | Rt30   | 1221. | 45.00  | 1217. | 1172. | 907.  | 202.83 |  |
| + | HYDROGRAPH AT | 6R     | 301.  | 43.00  | 298.  | 270.  | 154.  | 16.37  |  |
| + | 2 COMBINED AT | Com30A | 1521. | 44.00  | 1514. | 1440. | 1059. | 219.20 |  |
| + | HYDROGRAPH AT | 4R     | 167.  | 30.00  | 163.  | 125.  | 53.   | 4.73   |  |
| + | 2 COMBINED AT | Com30B | 1594. | 42.00  | 1588. | 1517. | 1106. | 223.93 |  |
| + | ROUTED TO     | Rt31   | 1360. | 56.00  | 1357. | 1327. | 1080. | 223.93 |  |
| + | HYDROGRAPH AT | 2R     | 420.  | 25.00  | 403.  | 265.  | 99.   | 5.58   |  |
| + | 2 COMBINED AT | Com31A | 1371. | 55.00  | 1369. | 1343. | 1136. | 229.51 |  |
| + | HYDROGRAPH AT | 3R     | 223.  | 28.00  | 217.  | 157.  | 63.   |        |  |
|   | 2 COMBINED AT |        |       |        |       |       |       | 4.47   |  |
| + | ROUTED TO     | Com31B | 1389. | 53.00  | 1388. | 1369. | 1189. | 233.98 |  |
| + | HYDROGRAPH AT | Rt32   | 1227. | 71.00  | 1226. | 1212. | 1095. | 233.98 |  |
| + | 2 COMBINED AT | 1R     | 873.  | 34.00  | 858.  | 710.  | 331.  | 16.89  |  |
| + | HYDROGRAPH AT | Com32  | 1714. | 39.00  | 1704. | 1566. |       | 250.87 |  |
| + | HYDROGRAPH AT | DIV3   | 658.  | 50.00  | 654.  | 608.  | 407.  | 0.00   |  |
| + | 2 COMBINED AT | 17R    | 195.  | 34.00  | 192.  | 158.  | 73.   | 6.47   |  |
| + | HYDROGRAPH AT | Com33A | 743.  | 47.00  | 739.  | 692.  | 470.  | 6.47   |  |
| + | 2 COMBINED AT | 23R    | 706.  | 84.00  | 705.  | 695.  | 601.  | 94.54  |  |
| + | ROUTED TO     | Com33B | 1145. | 61.00  | 1143. | 1120. | 980.  | 101.01 |  |
| + |               | LSV    | 480.  | 124.00 | 480.  | 478.  | 462.  | 101.01 |  |

3BR MANE

49.62 1043.19

3919.96

1.54

NUITY SUMMARY (AC-FT) - INFLOW=0.6502E+04 EXCESS=0.0000E+00 OUTFLOW=0.6502E+04 BASIN STORAGE=0.1632E+00 PERCENT ERROR=

60.00

1043.17

3960.00

1.54

0.0

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW) INTERPOLATED TO COMPUTATION INTERVAL DATEL ELEMENT PEAK TIME TO VOLUME ייים DT PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) MANE 18 60.00 12.46 4860.00 0.08 60.00 12.46 4860.00 0.08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7543E+02 EXCESS=0.0000E+00 OUTFLOW=0.7512E+02 BASIN STORAGE=0.7456E-02 PERCENT ERROR= 0.4 2R MANE. 60 00 42 29 2760 00 60.00 ก 12 42.29 2760.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1795E+03 EXCESS=0.0000E+00 OUTFLOW=0.1788E+03 BASIN STORAGE=0.2367E-01 PERCENT ERROR= ЗR MANE 60.00 255.31 3300.00 0.28 60.00 255.31 3300.00 0.28 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1385E+04 EXCESS=0.0000E+00 OUTFLOW=0.1385E+04 BASIN STORAGE=0.1986E-01 PERCENT ERROR= 0.0 3R MANE 60.00 38.55 2700.00 0.36 60.00 38.55 2700.00 0.36 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1179E+03 EXCESS=0.0000E+00 OUTFLOW=0.1173E+03 BASIN STORAGE=0.5410E-02 PERCENT ERROR= 0.5 5AROUT MANE 39.00 417.48 5148.00 0.78 60.00 417.39 0.78 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1606E+04 EXCESS=0.0000E+00 OUTFLOW=0.1606E+04 BASIN STORAGE=0.3599E+00 PERCENT ERROR= 0.0 338.08 6384.00 5A1RT MANE 24.00 0.51 60.00 337.86 6360.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1207E+04 EXCESS=0.0000E+00 OUTFLOW=0.1196E+04 BASIN STORAGE=0.1447E+01 PERCENT ERROR= 0.8 42.18 7560.00 AAROUT MANE 60.00 0.1260.00 42.18 7560.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1900E+03 EXCESS=0.0000E+00 OUTFLOW=0.1897E+03 BASIN STORAGE=0.1295E+00 PERCENT ERROR= 4A1ROU MANE 12.00 202.04 2292.00 0.19 60.00 201 49 2280 00 0.19 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3809E+03 EXCESS≈0.0000E+00 OUTFLOW=0.3792E+03 BASIN STORAGE=0.1776E+00 PERCENT ERROR≈ 0.4 4AABRT MANE 24.00 192.22 2640.00 0.17 60.00 192.22 2640.00 0.17 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4037E+03 EXCESS≈0.0000E+00 OUTFLOW=0.4036E+03 BASIN STORAGE=0.7820E+00 PERCENT ERROR= -0.260.00 409.64 4260.00 60.00 2,30 409.64 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2456E+04 EXCESS=0.0000E+00 OUTFLOW=0.2456E+04 BASIN STORAGE=0.7541E-02 PERCENT ERROR= 0.0 MANE 60.00 798.74 3780.00 1.63 60.00 798.74 3780.00 1.63 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4694E+04 EXCESS=0.0000E+00 OUTFLOW=0.4695E+04 BASIN STORAGE=0.7389E-02 PERCENT ERROR= 0.0

|                 | 4BR  | MANE    | 58.58       | 1304.45   | 3808.01       | 1.62        | 60.00     | 1304.41     | 3840.00     | 1.62                     |     |
|-----------------|------|---------|-------------|-----------|---------------|-------------|-----------|-------------|-------------|--------------------------|-----|
| CONTINUITY SUMM | MARY | (AC-FT) | - INFLOW=0. | 7831E+04  | EXCESS=0.0000 | E+00 OUTFLO | OW=0.7831 | E+04 BASIN  | STORAGE=0   | .2376E+00 PERCENT ERROR= | 0.0 |
|                 | 8BR  | MANE    | 60.00       | 1564.32   | 4020.00       | 1.70        | 60.00     | 1564.32     | 4020.00     | 1.70                     |     |
| CONTINUITY SUMM | MARY | (AC-FT) | - INFLOW=0. | 1013E+05  | EXCESS=0.0000 | E+00 OUTFLO | OW≃0.1013 | BE+05 BASIN | STORAGE=0   | .7430E+00 PERCENT ERROR= | 0.0 |
|                 | 9R   | MANE    | 60.00       | 2887.71   | 3960.00       | 0.95        | 60.00     | 2887.71     | 3960.00     | 0.95                     |     |
| CONTINUITY SUMM | MARY | (AC-FT) | - INFLOW=0. | 2149E+05  | EXCESS=0.0000 | E+00 OUTFLO | OW=0.2149 | E+05 BASIN  | STORAGE=0   | .9986E+01 PERCENT ERROR= | 0.0 |
| F               | Rt25 | MANE    | 60.00       | 314.22    | 3180.00       | 0.59        | 60.00     | 314.22      | 3180.00     | 0.59                     |     |
| CONTINUITY SUMM | MARY | (AC-FT) | - INFLOW=0. | .1199E+04 | EXCESS=0.0000 | E+00 OUTFL  | OW=0.1193 | BE+04 BASIN | N STORAGE=0 | .4836E+00 PERCENT ERROR= | 0.4 |

### SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

| PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | 135                          | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|------|---|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | DEPTH                        | STORAGE                     | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS |                                    |                             |
|      |   | 1.00               |                                  | OF DAM OVER                  | TOPPING/BR                  | 418.<br>EACH ANALYSIS<br>STEP USED D  | FOR STATE                     | ON 5A1CAN                          | 0.00                        |
| PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | 115                          | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | DEPTH                        |                             |                                       | DURATION<br>OVER TOP<br>HOURS |                                    |                             |
|      |   | 1.00               |                                  | OF DAM OVER                  | TOPPING/BR                  | 340.<br>EACH ANALYSIS<br>STEP USED D  | FOR STATI                     | ON 4ACANA                          | 0.00                        |
| PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  |                              |                             | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|      |   | RATIO<br>OF        | MAXIMUM<br>RESERVOIR             | MAXIMUM<br>DEPTH             |                             | MAXIMUM<br>OUTFLOW                    | DURATION<br>OVER TOP          | TIME OF                            | TIME OF<br>FAILURE          |
|      |   | PMF                | W.S.ELEV                         |                              |                             | CFS                                   |                               | HOURS                              | HOURS                       |
|      |   | 1.00               |                                  | OF DAM OVER                  |                             | 42.<br>EACH ANALYSIS<br>STEP USED D   | FOR STATI                     |                                    | 0.00                        |
| PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | 140                          | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | DEPTH                        | STORAGE                     | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    |                             |
|      |   | 1.00               |                                  |                              |                             | 205.<br>EACH ANALYSIS<br>STEP USED D  |                               | ON 4BCANA                          | 0.00                        |
| PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               |                             | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00               | 113.75                           | 0.10                         | 355.                        | 196.                                  | 10.00                         | 40.00                              | 0.00                        |

#### **HEC-1 MODEL**

### PROPOSED CONDITIONS 10% DIVERSION

100-YEAR MODEL

FLOOD HYDROGRAPH PACKAGE (HEC-1)

MAY 1991

VERSION 4.0.1E

Lahey F77L-EM/32 version 5.01

Dodson & Associates, Inc.

RUN DATE 05/23/01 TIME 14:56:35

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

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| х   | Х    | XXXXXXX | XX | XXX |       | Х   |
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| Х   | Х    | x       | X  | Х   |       | Х   |
| Х   | X    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT PAGE 1

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LINE
             10. \dots 1. \dots 2. \dots 3. \dots 4. \dots 5. \dots 6. \dots 7. \dots 8. \dots 9. \dots 10
                  Hidalgo County Flood Insurance Study
                  Job No. 11-00389-002
                                          Proposed with Detention Conditions
                  File Name: Deten100.DAT
                                  l Future Development
                  100-year Rain-fall
             * HEC-1 model for the North-West main drain area
             * Model sequence is as follows:
             * revised rainfall from USGS report 98-4044
               REVISED ON TYPE I ANTECEDANT
               REVISED LAG BASED ON REVISED CN I
               IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
               SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
               MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
  1
             ID
                  West Main drain area
             ID
                  100-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  3
             IT
                     60 1JAN01
                                       300
  4
             IO
             * Start calculating hydrograph for the sub water sheds
             * that drain to the West Main drain.
             * ************
   5
                  SC-7A SUBWATER SHED
                  Compute hydrograph for sub-water shed SC-7A
             BA
                  18.4
  8
             PН
                                                4.68 5.65
                                                              6.29
                                                                     7.51
                                                                             8.61
                                                                                  9.19
                  5.721
                            60
  10
                  53.5
                 ******
  11
             KK
                   1R
  12
                  Route hydrograph from head water to node 1 using Muskingum-Cunge Method
  13
             RD
  14
                   0.08
                          0.03
                                 0.08
                                       19200 0.0002
                                                        217
  15
                   1000
                          2500
                                 2917
                                        2994
                                               3005
                                                       3061
                                                              4500
                                                                      5000
                  203.5
                         202.0
                               204.4 191.53 191.53
                                                      204.5
                                                             199.9 199.0
  17
             KK
                  SC-7B SUBWATER SHED
  18
                  Compute hydrograph for sub-water shed SC-7B
  19
             BA
                   9.82
  20
              LS
                  5.282
                            60
  21
             UD
                   20.1
              * ************
```

|   |               |         |              | TIME II         | N NOURS, AREA | IN SQUARE I  | AITES      |               |                  |                      |
|---|---------------|---------|--------------|-----------------|---------------|--------------|------------|---------------|------------------|----------------------|
|   | OPERATION     | STATION | PEAK<br>FLOW | TIME OF<br>PEAK | AVERAGE FL    | OW FOR MAXIN | MUM PERIOD | BASIN<br>AREA | MAXIMUM<br>STAGE | TIME OF<br>MAX STAGE |
| + |               |         |              |                 | 6-HOUR        | 24-HOUR      | 72-HOUR    |               | 0.2-1-0.2        | , , , ,              |
| + | HYDROGRAPH AT | SC-7A   | 176.         | 69.00           | 176.          | 171.         | 136.       | 18.40         |                  |                      |
|   | ROUTED TO     |         |              |                 |               |              | 230.       | 10.40         |                  |                      |
| + |               | 1R      | 176.         | 73.00           | 175.          | 170.         | 135.       | 18.40         |                  |                      |
| + | HYDROGRAPH AT | SC-7B   | 306.         | 35.00           | 302.          | 252.         | 120.       | 9.82          |                  |                      |
|   | 2 COMBINED AT |         | 0000         | 00100           | 002.          |              | .20,       | 3.02          |                  |                      |
| + |               | 1C      | 336.         | 37.00           | 333.          | 298.         | 228.       | 28.22         |                  |                      |
| + | ROUTED TO     | 2R      | 328.         | 41.00           | 325.          | 293.         | 226.       | 28.22         |                  |                      |
|   | HYDROGRAPH AT |         |              |                 |               | -7           |            | 20121         |                  |                      |
| + |               | SC-7C   | 568.         | 43.00           | 563.          | 508.         | 286.       | 23.00         |                  |                      |
| + | HYDROGRAPH AT | SC-6A   | 667.         | 66.00           | 666.          | 645.         | 499.       | 41.66         |                  |                      |
|   | 3 COMBINED AT |         |              |                 |               |              |            |               |                  |                      |
| + |               | 2C      | 1333.        | 48.00           | 1328.         | 1269.        | 985.       | 92.88         |                  |                      |
| + | ROUTED TO     | 3R      | 1329.        | 52.00           | 1326.         | 1268.        | 984.       | 92.88         |                  |                      |
|   | HYDROGRAPH AT |         |              |                 |               |              |            |               |                  |                      |
| + |               | SC-6B   | 521.         | 37.00           | 515.          | 444.         | 223.       | 6.58          |                  |                      |
| + | HYDROGRAPH AT | SC-7D   | 198.         | 41.00           | 186.          | 165.         | 89.        | 6.15          |                  |                      |
|   | ROUTED TO     |         |              |                 |               |              |            |               |                  |                      |
| + |               | 3R      | 183.         | 42.00           | 182.          | 162.         | 89.        | 6.15          |                  |                      |
| + | 3 COMBINED AT | 3C      | 1858.        | 45.00           | 1850.         | 1744.        | 1267.      | 105.61        |                  |                      |
|   | ROUTED TO     |         |              |                 |               |              |            |               |                  |                      |
| + |               | 4R      | 1688.        | 54.00           | 1683.         | 1624.        | 1261.      | 105.61        |                  |                      |
| + | HYDROGRAPH AT | SC5A    | 1085.        | 65.00           | 1084.         | 1051.        | 816.       | 38.43         |                  |                      |
|   | ROUTED TO     |         |              |                 |               |              |            |               |                  |                      |
| + |               | 5ACANA  | 1081.        | 68.00           | 1079.         | 1030.        | 715.       | 38.43         | 141.00           | 68.00                |
|   | ROUTED TO     |         |              |                 |               |              |            |               |                  |                      |
| + |               | 5AROUT  | 1081.        | 71.00           | 1078.         | 1029.        | 713.       | 38.43         |                  |                      |
| + | HYDROGRAPH AT | SC5A1   | 643.         | 29.00           | 627.          | 464.         | 190.       | 5.64          |                  |                      |
|   | 2 COMBINED AT |         |              |                 |               |              |            |               |                  |                      |
| + |               | 5AA1    | 1092.        | 71.00           | 1089.         | 1039.        | 718.       | 44.07         |                  |                      |
| + | ROUTED TO     | 5A1CAN  | 1088.        | 73.00           | 1085.         | 1031.        | 712.       | 44.07         |                  |                      |
| + |               |         |              |                 |               |              |            |               | 117.15           | 73.00                |
| + | ROUTED TO     | 5A1RT   | 1087.        | 78.00           | 1084.         | 1031.        | 707.       | 44.07         |                  |                      |
|   | HYDROGRAPH AT |         |              |                 |               |              |            |               |                  |                      |
| + |               | SC5B    | 995.         | 27.00           | 964.          | 675.         | 264.       | 9.02          |                  |                      |
| + | 2 COMBINED AT | 4C1     | 1089.        | 78.00           | 1086.         | 1034.        | 708.       | 53.09         |                  |                      |
|   |               |         |              |                 |               |              |            |               |                  |                      |

| +                 | HYDROGRAPH AT           | SC-4A  | 1213. | 52.00  | 1209. | 1142. | 762.  | 30.73  |        |       |
|-------------------|-------------------------|--------|-------|--------|-------|-------|-------|--------|--------|-------|
| +                 | ROUTED TO               | 4ACANA | 1012. | 64.00  | 998.  | 835.  | 454.  | 30.73  | 172.32 | 64.00 |
| +                 | ROUTED TO               | 4AROUT | 1011. | 66.00  | 997.  | 832.  | 452.  | 30.73  | 112.32 | 94.00 |
| +                 | HYDROGRAPH AT           | SC-4A1 | 1024. | 25.00  | 986.  | 632.  | 233.  | 7.34   |        |       |
| +                 | 2 COMBINED AT           | SC4AA1 | 1024. | 25.00  | 1000. | 833.  | 541.  | 38.07  |        |       |
| <del>+</del><br>+ | ROUTED TO               | 4A1CAN | 1010. | 67.00  | 996.  | 826.  | 499.  | 38.07  | 141.19 | 67.00 |
| +                 | ROUTED TO               | 4A1ROU | 1009. | 69.00  | 994.  | 821.  | 495.  | 38.07  |        |       |
| +                 | HYDROGRAPH AT           | SC-4B  | 913.  | 20.00  | 830.  | 414.  | 141.  | 5.44   |        |       |
| +                 | 2 COMBINED AT           | SC4AAB | 1193. | 29.00  | 1002. | 821.  | 558.  | 43.51  |        |       |
| +<br>+            | ROUTED TO               | 4BCANA | 1180. | 30.00  | 994.  | 818.  | 537.  | 43.51  | 114.19 | 30.00 |
| +                 | ROUTED TO               | 4AABRT | 1145. | 32.00  | 991.  | 811.  | 535.  | 43.51  |        |       |
| +                 | HYDROGRAPH AT           | SC-4B1 | 725.  | 26.00  | 699.  | 475.  | 181.  | 6.07   |        |       |
| +                 | 2 COMBINED AT           | SC-4   | 1667. | 32.00  | 1428. | 1024. | 672.  | 49.58  |        |       |
| +                 | 3 COMBINED AT           | 4C2    | 3435. | 73.00  | 3386. | 2967. | 2510. | 208.28 |        |       |
| +                 | ROUTED TO               | 5R     | 2814. | 84.00  | 2808. | 2710. | 2418. | 208.28 |        |       |
| +                 | HYDROGRAPH AT           | SC-3   | 1380. | 76.00  | 1379. | 1353. | 1138. | 56.44  |        |       |
| +                 | 2 COMBINED AT           | 5C     | 4175. | 82.00  | 4165. | 4026. | 3491. | 264.72 |        |       |
| +                 | DIVERSION TO            | DIV1   | 650.  | 82.00  | 648.  | 617.  | 500.  | 264.72 |        |       |
| +                 | HYDROGRAPH AT           | DIAJ   | 3525. | 82.00  | 3517. | 3409. | 2992. | 264.72 |        |       |
| +                 | ROUTED TO HYDROGRAPH AT | 6R     | 3202. | 102.00 | 3199. | 3151. | 2863. | 264.72 |        |       |
| +                 | 2 COMBINED AT           | SC-3B  | 264.  | 49.00  | 263.  | 246.  | 157.  | 6.71   |        |       |
| +                 | ROUTED TO               | 6C     | 3235. | 102.00 | 3231. | 3185. | 2945. | 271.43 |        |       |
| +                 | HYDROGRAPH AT           | 7R     | 3219. | 106.00 | 3216. | 3171. | 2943. | 271.43 |        |       |
| +                 | 2 COMBINED AT           | SC-2   | 139.  | 72.00  | 139.  | 136.  | 110.  | 11.48  |        |       |
| +                 | ROUTED TO               | 7C     | 3301. | 104.00 | 3298. | 3256. | 3046. | 282.91 |        |       |
| +                 |                         | 8R     | 3250. | 114.00 | 3247. | 3211. | 3017. | 282.91 |        |       |

| + | HYDROGRAPH AT | SC-1  | 360.  | 52.00  | 359.  | 340.  | 231.  | 7.07   |
|---|---------------|-------|-------|--------|-------|-------|-------|--------|
| + | 2 COMBINED AT | 8C1   | 3291. | 113.00 | 3288. | 3256. | 3132. | 289.98 |
| + | HYDROGRAPH AT | SC-8  | 770.  | 67.00  | 769.  | 748.  | 592.  | 19.99  |
| + | ROUTED TO     | 1BR   | 769.  | 70.00  | 768.  | 747.  | 591.  | 19.99  |
| + | HYDROGRAPH AT | SM-18 | 529.  | 70.00  | 529.  | 515.  | 415.  | 27.11  |
| + | 2 COMBINED AT | 1BC1  | 1298. | 70.00  | 1296. | 1262. | 1007. | 47.10  |
| + | HYDROGRAPH AT | SM-17 | 503.  | 50.00  | 502.  | 472.  | 310.  | 7.03   |
| + | 2 COMBINED AT | 1BC2  | 1675. | 63.00  | 1670. | 1614. | 1285. | 54.13  |
| + | ROUTED TO     | 2BR   | 1674. | 64.00  | 1669. | 1613. | 1284. | 54.13  |
| + | HYDROGRAPH AT | SM-16 | 589.  | 75.00  | 588.  | 577.  | 482.  | 25.18  |
| + | 2 COMBINED AT | 2BC   | 2228. | 66.00  | 2224. | 2160. | 1755. | 79.31  |
| + | ROUTED TO     | 3BR   | 2228. | 66.00  | 2223. | 2159. | 1755. | 79.31  |
| + | HYDROGRAPH AT | SM-15 | 534.  | 54.00  | 532.  | 507.  | 353.  | 11.10  |
| + | 2 COMBINED AT | 3BC   | 2703. | 64.00  | 2696. | 2610. | 2090. | 90.41  |
| + | ROUTED TO     | 4BR   | 2700. | 65.00  | 2694. | 2608. | 2088. | 90.41  |
| + | HYDROGRAPH AT | SM-14 | 571.  | 82.00  | 570.  | 562.  | 486.  | 21.60  |
| + | 2 COMBINED AT | 4BC   | 3206. | 67.00  | 3199. | 3106. | 2547. | 112.01 |
| + | ROUTED TO     | 8BR   | 3205. | 68.00  | 3198. | 3106. | 2547. | 112.01 |
| + | HYDROGRAPH AT | SM-13 | 282.  | 89.00  | 282.  | 278.  | 246.  | 22.25  |
| + | 2 COMBINED AT | 8C2   | 3444. | 69.00  | 3436. | 3343. | 2773. | 134.26 |
| + | 2 COMBINED AT | 8C3   | 6507. | 69.00  | 6497. | 6376. | 5791. | 424.24 |
| + | ROUTED TO     | 9R    | 6484. | 76.00  | 6475. | 6362. | 5786. | 424.24 |
| + | HYDROGRAPH AT | 298   | 634.  | 41.00  | 628.  | 560.  | 304.  | 12.28  |
| + | 2 COMBINED AT | Com9A | 6593. | 74.00  | 6584. | 6471. | 5904. | 436.52 |
| + | HYDROGRAPH AT | 288   | 916.  | 53.00  | 914.  | 866.  | 588.  | 25.91  |
| + | 2 COMBINED AT | Com9B | 7210. | 71.00  | 7198. | 7068. | 6377, | 462.43 |
| + | ROUTED TO     | Rt10  | 6604. | 87.00  | 6599. | 6530, | 6080. | 462.43 |

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| <b>+</b>     | DIVERSION TO  | DIV2   | 1887. | 87.00  | 1885. | 1866.         | 1737. | 462.43 |  |
|--------------|---------------|--------|-------|--------|-------|---------------|-------|--------|--|
| +            | HYDROGRAPH AT | DIAS   | 4717. | 87.00  | 4714. | 4665.         | 4343. |        |  |
| +            | HYDROGRAPH AT | 27S    | 1110. | 29.00  | 1082. |               |       | 462.43 |  |
| +            | 2 COMBINED AT | Com10A |       |        |       | 803.          | 329.  | 12.15  |  |
| +            | HYDROGRAPH AT |        | 4719. | 87.00  | 4716. | 4668.         | 4352. | 474.58 |  |
|              | HYDROGRAPH AT | 268    | 1048. | 28.00  | 1021. | 732.          | 291.  | 10.55  |  |
| +            | 3 COMBINED AT | 248    | 363.  | 29.00  | 354.  | 262.          | 107.  | 3.83   |  |
| +            | ROUTED TO     | Com10B | 4720. | 86.00  | 4717. | 4670.         | 4360. | 488.96 |  |
| +            | HYDROGRAPH AT | Rt11   | 4592. | 99.00  | 4590. | 4558.         | 4324. | 488.96 |  |
| +            | 2 COMBINED AT | 22\$   | 529.  | 35.00  | 520.  | 436.          | 207.  | 7.55   |  |
| +            | HYDROGRAPH AT | Com11A | 4598. | 99.00  | 4596. | 4564.         | 4337. | 496.51 |  |
| +            | 2 COMBINED AT | 20S    | 615.  | 39.00  | 609.  | 533.          | 277.  | 10.57  |  |
| +            |               | Com11B | 4615. | 98.00  | 4613. | 4582.         | 4371. | 507.08 |  |
| +            | ROUTED TO     | Rt12   | 4548. | 108.00 | 4547. | 4522.         | 4348. | 507.08 |  |
| +            | HYDROGRAPH AT | 188    | 388.  | 31.00  | 380.  | 295.          | 127.  | 4.69   |  |
| <del>}</del> | 2 COMBINED AT | Com12  | 4548. | 108.00 | 4547. | 4522.         | 4350. | 511.77 |  |
| +            | ROUTED TO     | Rt13   | 4542. | 111.00 | 4540. | 4516.         | 4347. | 511.77 |  |
| +            | HYDROGRAPH AT | 168    | 454.  | 38.00  | 449.  | 391.          | 202.  | 9.60   |  |
| +            | 2 COMBINED AT | Com13A | 4547. | 111.00 | 4545. | 4522.         | 4361. | 521.37 |  |
| +            | HYDROGRAPH AT | 15S    | 789.  | 52.00  | 787.  | 740.          | 488.  | 25.08  |  |
| +            | 2 COMBINED AT | Com13B | 5262. | 46.00  | 5249. | 5085.         | 4753. | 546.45 |  |
| +            | ROUTED TO     | Rt14   | 4797. | 60.00  | 4793. | 4750.         | 4646. | 546.45 |  |
| +            | HYDROGRAPH AT | 13\$   | 644.  | 48.00  | 641.  | 595.          | 369.  | 19.76  |  |
| +            | 2 COMBINED AT | Com14A | 5336. | 56.00  | 5328. | 5222.         | 4899. | 566.21 |  |
| +            | HYDROGRAPH AT | 148    | 551.  | 37.00  | 545.  | 471.          | 239.  | 9.53   |  |
| +            | 2 COMBINED AT | Com14B | 5577. | 53.00  | 5569. | 5 <b>456.</b> | 5025. | 575.74 |  |
| +            | ROUTED TO     | Rt15   | 5365. | 63.00  | 5358. | 5272.         | 4953. | 575.74 |  |
|              | HYDROGRAPH AT | 115    | 887.  | 26.00  | 855.  | 584.          | 223.  | 8.20   |  |

| + | 2 COMBINED AT | Com15        | 5379. | 63.00  | 5372. | 5286. | 4963. | 583.94 |  |
|---|---------------|--------------|-------|--------|-------|-------|-------|--------|--|
| + | ROUTED TO     | Rt <b>16</b> | 5147. | 76.00  | 5144. | 5097. | 4894. | 583.94 |  |
| + | HYDROGRAPH AT | 7s           | 968.  | 53.00  | 965.  | 914.  | 619.  | 29.41  |  |
| + | 2 COMBINED AT | Com16        | 5813. | 68.00  | 5805. | 5711. | 5310. | 613.35 |  |
| + | ROUTED TO     | Rt17         | 5793. | 71.00  | 5785. | 5696. | 5303. | 613.35 |  |
| + | HYDROGRAPH AT | 6S           | 1101. | 27.00  | 1068. | 744.  | 290.  | 9.21   |  |
| + | 2 COMBINED AT | Com17        | 5802. | 71.00  | 5794. | 5705. | 5314. | 622.56 |  |
| + | ROUTED TO     | Rt18         | 5748. | 76.00  | 5742. | 5664. | 5299. | 622.56 |  |
| + | HYDROGRAPH AT | 45           | 1698. | 34.00  | 1669. | 1379. | 644.  | 22.35  |  |
| + | 2 COMBINED AT | Com18A       | 5837. | 74.00  | 5831. | 5758. | 5458. | 644.91 |  |
| + | HYDROGRAPH AT | 38           | 553.  | 30.00  | 540.  | 413.  | 175.  | 4.49   |  |
| + | 2 COMBINED AT | Com18B       | 5848. | 74.00  | 5842. | 5770. | 5547. | 649.40 |  |
| + | ROUTED TO     | Rt19         | 5843. | 75.00  | 5838. | 5768. | 5542. | 649.40 |  |
| + | HYDROGRAPH AT | 28           | 1018. | 23.00  | 971.  | 594.  | 214.  | 5.35   |  |
| + | 2 COMBINED AT | Com19A       | 5868. | 36.00  | 5838. | 5768. | 5584. | 654.75 |  |
| + | HYDROGRAPH AT | 18           | 664.  | 35.00  | 654.  | 547.  | 260.  | 7.47   |  |
| + | 2 COMBINED AT | Com19B       | 6522. | 36.00  | 6466. | 6020. | 5785. | 662.22 |  |
| + | HYDROGRAPH AT | DIV1         | 650.  | 82.00  | 648.  | 617.  | 500.  | 0.00   |  |
| + | HYDROGRAPH AT | SC-3A        | 178.  | 72.00  | 177.  | 174.  | 143.  | 5.87   |  |
| + | 2 COMBINED AT | 20C          | 820.  | 82.00  | 818.  | 782.  | 641.  | 5.87   |  |
| + | ROUTED TO     | 21R          | 587.  | 103.00 | 586.  | 577.  | 515.  | 5.87   |  |
| + | HYDROGRAPH AT | 29aR         | 227.  | 37.00  | 224.  | 192.  | 95.   | 4.84   |  |
| + | 2 COMBINED AT | Com21A       | 589.  | 103.00 | 589.  | 580.  | 523.  | 10.71  |  |
| + | HYDROGRAPH AT | 29R          | 488.  | 47.00  | 485.  | 447.  | 271.  | 18.03  |  |
| + | 2 COMBINED AT | Com21B       | 928.  | 46.00  | 924.  | 875.  | 732.  | 28.74  |  |
| + | HYDROGRAPH AT | 22R          | 912.  | 49.00  | 908.  | 864.  | 729.  | 28.74  |  |
| + |               | 28aR         | 106.  | 27.00  | 102.  | 70.   | 27.   | 2.35   |  |

|   | 2 COMBINED AT | Com22  | 923.  | 49.00 | 919.  | 875.  | 737.          | 31.09  |
|---|---------------|--------|-------|-------|-------|-------|---------------|--------|
| + | ROUTED TO     | Rt23   | 799.  | 62.00 | 798.  | 776.  | 703.          | 31.09  |
| + | HYDROGRAPH AT | 24R    | 625.  | 50.00 | 623.  | 582.  | 372.          | 22.22  |
| + | 2 COMBINED AT | Com23A | 1359. | 55.00 | 1355. | 1297. | 1024.         | 53.31  |
| + | HYDROGRAPH AT | 28R    | 51.   | 33.00 | 50.   | 38.   | 16.           | 4.68   |
| + | ROUTED TO     | Rt24   | 47.   | 44.00 | 46.   | 35.   | 16.           | 4.68   |
| + | HYDROGRAPH AT | 25R    | 366.  | 37.00 | 362.  | 311.  | 156.          | 8.99   |
| + | HYDROGRAPH AT | 27R    | 733.  | 50.00 | 730.  | 682.  | 434.          | 23.93  |
| ٠ | 3 COMBINED AT | Com24  | 1071. | 44.00 | 1063. | 970.  | 602.          | 37.60  |
| • | ROUTED TO     | Rt25   | 1050. | 49.00 | 1043. | 956.  | 596.          | 37.60  |
| + | HYDROGRAPH AT | 22R    | 882.  | 46.00 | 878.  | 809.  | 488.          | 18.04  |
|   | 2 COMBINED AT | Com25  | 1924. | 47.00 | 1908. | 1748. | 1073.         | 55.64  |
| + | HYDROGRAPH AT | 19R    | 359.  | 40.00 | 355.  | 314.  | 167.          | 11.18  |
|   | 3 COMBINED AT | Com23B | 3507. | 48.00 | 3498. | 3255. | 2228.         | 120.13 |
|   | ROUTED TO     | Rt26A  | 3418. | 52.00 | 3404. | 3245. | 2228.         | 120.13 |
|   | DIVERSION TO  | DIV3   | 1672. | 52.00 | 1666. | 1598. | 1149.         | 120.13 |
| + | HYDROGRAPH AT | DIV3   | 1747. | 52.00 | 1739. | 1647. | 1079.         | 120.13 |
|   | ROUTED TO     | Rt26B  | 1743. | 54.00 | 1735. | 1641. | 1076.         |        |
|   | HYDROGRAPH AT | 20R    | 1248. | 35.00 | 1229. | 1032. |               | 120.13 |
|   | 2 COMBINED AT | Com26  | 2558. | 41.00 | 2521. |       | 494.<br>1526. | 18.78  |
|   | ROUTED TO     | Rt27A  | 1547. | 65.00 |       |       |               |        |
|   | HYDROGRAPH AT | 13R    | 907.  |       | 1543. | 1509. | 1322.         | 138.91 |
| _ | 2 COMBINED AT |        |       | 30.00 | 888.  | 688.  | 294.          | 11.50  |
|   | HYDROGRAPH AT | Com27A | 1714. | 37.00 | 1673. | 1611. |               | 150.41 |
|   | ROUTED TO     | 14R    | 528.  | 37.00 | 521.  | 449.  |               |        |
|   | 2 COMBINED AT | Rt27B  | 638.  | 42.00 | 450.  | 308.  | 203.          | 9.24   |
| - | ROUTED TO     | Com27B | 2252. | 42.00 | 2047. | 1916. | 1689.         | 159.65 |
|   |               | Rt28   | 1871. | 51.00 | 1866. | 1844. | 1658.         | 159.65 |

| + | HYDROGRAPH AT | 11R    | 934.  | 25.00  | 898.  | 587.  | 218.  | 10.09  |  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|--|
| + | 2 COMBINED AT | Com28A | 1918. | 49.00  | 1914. | 1877. | 1755. | 169.74 |  |
| + | HYDROGRAPH AT | 8R     | 490.  | 27.00  | 474.  | 325.  | 124.  | 11.62  |  |
| + | 2 COMBINED AT | Com28B | 2279. | 29.00  | 2206. | 2045. | 1858. | 181.36 |  |
| + | ROUTED TO     | Rt29   | 1887. | 57.00  | 1886. | 1874. | 1769. | 181.36 |  |
| + | HYDROGRAPH AT | 10R    | 1540. | 34.00  | 1516. | 1246. | 575.  | 21.47  |  |
| + | 2 COMBINED AT | Com29  | 3160. | 35.00  | 3137. | 2859. | 2266. | 202.83 |  |
| + | ROUTED TO     | Rt30   | 2667. | 46.00  | 2658. | 2550. | 2183. | 202.83 |  |
| + | HYDROGRAPH AT | 6R     | 746.  | 43.00  | 740.  | 670.  | 381.  | 16.37  |  |
| + | 2 COMBINED AT | Com30A | 3398. | 44.00  | 3382. | 3191. | 2538. | 219.20 |  |
| + | HYDROGRAPH AT | 4R     | 395.  | 30.00  | 385.  | 295.  | 125.  | 4.73   |  |
| + | 2 COMBINED AT | Com30B | 3552. | 43.00  | 3533. | 3337. | 2631. | 223.93 |  |
| + | ROUTED TO     | Rt31   | 3053. | 56.00  | 3042. | 2928. | 2466. | 223.93 |  |
| + | HYDROGRAPH AT | 2R     | 815.  | 25.00  | 782.  | 512.  | 192.  | 5.58   |  |
| + | 2 COMBINED AT | Com31A | 3073. | 56.00  | 3062. | 2951. | 2495. | 229.51 |  |
| + | HYDROGRAPH AT | 3R     | 478.  | 28.00  | 465.  | 335.  | 133.  | 4.47   |  |
| + | 2 COMBINED AT | Com31B | 3105. | 55.00  | 3094. | 2986. | 2574. | 233.98 |  |
| + | ROUTED TO     | Rt32   | 2574. | 75.00  | 2571. | 2536. | 2317. | 233.98 |  |
| + | HYDROGRAPH AT | 1R     | 1608. | 34.00  | 1582. | 1307. | 608.  | 16.89  |  |
| + | 2 COMBINED AT | Com32  | 2856. | 36.00  | 2840. | 2666. | 2590. | 250.87 |  |
| + | HYDROGRAPH AT | DIV3   | 1672. | 52.00  | 1666. | 1598. | 1149. | 0.00   |  |
| + | HYDROGRAPH AT | 17R    | 458.  | 33.00  | 451.  | 369.  | 170.  | 6.47   |  |
| + | 2 COMBINED AT | Com33A | 1876. | 40.00  | 1855. | 1805. | 1294. | 6.47   |  |
| + | HYDROGRAPH AT | 23R    | 1709. | 83.00  | 1707. | 1681. | 1454. | 94.54  |  |
| + | 2 COMBINED AT | Com33B | 2975. | 62.00  | 2956. | 2846. | 2526. | 101.01 |  |
| + | ROUTED TO     | LSV    | 1039. | 137.00 | 1039. | 1037. | 1017. | 101.01 |  |

# SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW) INTERPOLATED TO

|            |           |           |             | (,,                 | 20 12 2420      |             |                    | INTERPO!<br>COMPUTATION | LATED TO<br>N INTERVAL |                  |        |      |
|------------|-----------|-----------|-------------|---------------------|-----------------|-------------|--------------------|-------------------------|------------------------|------------------|--------|------|
|            | ISTAQ     | ELEMENT   | DT          | PEAK                | TIME TO<br>PEAK | VOLUME      | DT                 | PEAK                    | TIME TO<br>PEAK        | VOLUME           |        |      |
|            |           |           | (MIN)       | (CFS)               | (MIN)           | (IN)        | (MIN)              | (CFS)                   | (MIN)                  | (IN)             |        |      |
|            | 1R        | MANE      | 60.00       | 175.66              | 4380.00         | 1.08        | 60.00              | 175.66                  | 4380.00                | 1.08             |        |      |
| CONTINUITY | SUMMARY   | (AC-FT) - | INFLOW=0.   | 105 <b>6E</b> +04 E | XCESS=0 0000    | E+00 OUTFL  | OW=0.105           | 6E+04 BASIN             | STORAGE=0.             | 1018E-01 PERCENT | ERROR= | 0.0  |
|            | 2R        | MANE      | 60.00       | 327.51              | 2460.00         | 1.18        | 60.00              | 327.51                  | 2460.00                | 1.18             |        |      |
| CONTINUIT  | SUMMARY   | (AC-FT) - | INFLOW=0.   | 1777E+04 E          | XCESS-0.0000    | E+00 OUTFL  | OW=0.177           | 6E+04 BASIN             | STORAGE=0.             | 3912E-01 PERCENT | ERROR= | 0.0  |
|            | 3R        | MANE      | 60.00       | 1329.41             | 3120.00         | 1.48        | 60.00              | 1329.41                 | 3120.00                | 1.48             |        |      |
| CONTINUITY | SUMMARY   | (AC-FT) - | INFLOW=0.   | 7334E+04 E          | XCESS=0.0000    | E+00 OUTFL  | OW=0.733           | 3E+04 BASIN             | STORAGE=0.             | 3812E-01 PERCENT | ERROR≈ | 0.0  |
|            | 3R        | MANE      | 60.00       | 183.40              | 2520.00         | 1.68        | 60.00              | 183.40                  | 2520.00                | 1.68             |        |      |
| CONTINUITY | SUMMARY   | (AC-FT) - | INFLOW=0.   | 5506E+03 E          | XCESS=0.0000    | E+00 OUTFL  | .O₩≔0.5491         | 8E+03 BASIN             | STORAGE=0.             | 5648E-02 PERCENT | ERROR= | 0.1  |
|            | 5AROUT    | MANE      | 48.00       | 1081.04             | 4272.00         | 2.44        | 60.00              | 1080.84                 | 4260.00                | 2.44             |        |      |
| CONTINUITY | SUMMARY   | (AC-FT) - | INFLOW=0.   | 5000E+04 E          | XCESS=0.0000    | E+00 OUTFL  | , <b>ow</b> =0.500 | 4E+04 BASIN             | STORAGE=0.             | 4968E+00 PERCENT | ERROR= | -0.1 |
|            | TRIA2     | MANE      | 60.00       | 1087.03             | 4680.00         | 2.20        | 60.00              | 1087.03                 | 4680.00                | 2.20             |        |      |
| CONTINUITY | SUMMARY   | (AC-FT) - | INFLOW=0.   | 5164E+04 E          | XCESS=0.0000    | E+00 OUTFL  | OW=0.516           | 3E+04 BASIN             | STORAGE=0.             | 2022E+01 PERCENT | ERROR= | 0.0  |
|            | 4AROUT    | MANE      | 33.00       | 1011.01             | 3960.00         | 1.80        | 60.00              | 1011.01                 | 3960.00                | 1.80             |        |      |
| CONTINUITY | SUMMARY   | (AC-FT) - | INFLOW=0.   | 29 <b>46E+04</b> E  | XCESS=0.0000    | E+00 OUTFL  | .O₩=0.294          | 6E+04 BASIN             | STORAGE=0.             | 1572E+00 PERCENT | ERROR≔ | 0.0  |
|            | 4A1ROU    | MANE      | 18.00       | 1009.21             | 4140.00         | 1.89        | 60.00              | 1009.21                 | 4140.00                | 1.89             |        |      |
| CONTINUIT  | SUMMARY   | (AC-FT) - | INFLOW=0.   | 38 <b>3</b> 5E+04 E | EXCESS=0.0000   | E+00 OUTFI  | .O₩=0.383          | 4E+04 BASIN             | STORAGE=0.             | 2044E+00 PERCENT | ERROR≈ | 0.0  |
|            | 4AABRT    | MANE      | 12.00       | 1147.06             | 1932.00         | 1.98        | 60.00              | 1144.65                 | 1920.00                | 1.89             |        |      |
| CONTINUIT  | / SUMMARY | (AC-FT) - | INFLOW=0.   | 4351E+04 E          | XCESS=0.0000    | E+00 OUTFI  | .O₩=0.435          | 4E+04 BASIN             | STORAGE=0.             | 8935E+00 PERCENT | ERROR≈ | -0.1 |
|            | 1BR       | MANE      | 60.00       | 768.80              | 4200.00         | 4.32        | 60.00              | 768.80                  | 4200.00                | 4.32             |        |      |
| CONTINUIT  | Y SUMMARY | (AC-FT) - | INFLOW=0.   | 4607E+04 E          | EXCESS=0.0000   | E+00 OUTFI  | .O₩=0.460          | 7E+04 BASIN             | STORAGE=0.             | 7847E-02 PERCENT | ERROR≈ | 0.0  |
|            | 2BR       | MANE      | 53.32       | 1674.43             | 3838.77         | 3.45        | 60.00              | 1674.37                 | 3840.00                | 3.45             |        |      |
| CONTINUIT  | y summary | (AC-FT) - | INFLOW=0.   | 9971E+04 E          | XCESS=0.0000    | DE+00 OUTFI | <b>_ow≖</b> 0.997  | 2E+04 BASIN             | STORAGE=0.             | 1659E-01 PERCENT | ERROR= | 0.0  |
|            | ЗBR       | MANE      | 38.36       | 2228.20             | 3989.46         | 3.31        | 60.00              | 2228.00                 | 3960.00                | 3.31             |        |      |
| NUIT       | y Summary | (AC-FT) - | · INFLOW=0. | 1402E+05 E          | EXCESS=0.000    | 0E+00 OUTF  | LOW=0.140          | 2E+05 BASIN             | STORAGE=0.             | 3455E+00 PERCENT | ERROR= | 0.0  |

|               | 4BR             | MANE    | 46.65       | 2700.01             | 3872.27      | 3.41        | 60.00     | 2699.99     | 3900.00       | 3.41                   |     |
|---------------|-----------------|---------|-------------|---------------------|--------------|-------------|-----------|-------------|---------------|------------------------|-----|
| CONTINUITY SU | UMMARY          | (AC-FT) | - INFLOW≃0. | 1646E+05 E          | XCESS=0.0000 | E+00 OUTFL  | OW≕0.1646 | SE+05 BASIN | STORAGE=0.4   | 912E+00 PERCENT ERROR= | 0.0 |
|               | 8BR             | MANE    | 60.00       | 3204.94             | 4080.00      | 3.49        | 60.00     | 3204.94     | 4080.00       | 3.49                   |     |
| CONTINUITY SU | U <b>MMA</b> RY | (AC-FT) | - INFLOW=0. | 208 <b>4E+0</b> 5 E | XCESS=0.0000 | E+00 OUTFL  | O₩=0.2084 | IE+05 BASIN | STORAGE=0.1   | 453E+01 PERCENT ERROR= | 0.0 |
|               | 9R              | MANE    | 60.00       | 6484.02             | 4560.00      | 2.30        | 60.00     | 6484.02     | 4560.00       | 2.38                   |     |
| CONTINUITY SU | UMMARY          | (AC-FT) | - INFLOW=0. | 5397E+05 E          | XCESS=0.0000 | DE+00 OUTFL | OW=0.5396 | SE+05 BASIN | STORAGE=0.1   | 960E+02 PERCENT ERROR= | 0.0 |
|               | Rt24            | MANE    | 60.00       | 46.61               | 2640.00      | 0.38        | 60.00     | 46.61       | 2640.00       | 0.38                   |     |
| CONTINUITY SO | UMMARY          | (AC-FT) | - INFLOW=0. | 9694E+02 E          | XCESS=0.000  | DE+00 OUTFL | OW=0.948( | DE+02 BASIN | STORAGE=0.3   | 377E+00 PERCENT ERROR= | 1.9 |
|               | Rt25            | MANE    | 60.00       | 1050.06             | 2940.00      | 1.93        | 60.00     | 1050.06     | 2940.00       | 1.93                   |     |
| CONTINUITY ST | UMMARY          | (AC-FT) | - INFLOW=0. | 3869E+04 E          | XCESS=0.000  | DE+00 OUTFL | OW=0.3863 | le+04 basin | I STORAGE≔0.5 | 026E+00 PERCENT ERROR= | 0.2 |

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#### SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

|   | PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>135               |                             | SPILLWAY CRE:<br>140.67<br>1200.<br>0. | 1                             | OF DAM<br>40.82<br>1348.<br>325.  |                             |
|---|------|---|--------------------|----------------------------------|------------------------------|-----------------------------|--|-------------------------------|-----------------------------------|-----------------------------|
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00               |                                  |                              |                             | 1081.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
|   | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               |                             | SPILLWAY CRE:<br>116.80<br>974.<br>0.  | 1                             | OF DAM<br>17.20<br>1190.<br>1346. |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| L |      |   | 1.00               |                                  |                              |                             | 1088.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
|   | PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               |                             | SPILLWAY CRE:<br>171.74<br>2155.<br>0. | 1                             | OF DAM<br>71.83<br>2217.<br>38.   |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM |                             | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| L |      |   | 1.00               |                                  |                              |                             | 1012.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
|   | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               |                             | SPILLWAY CRE<br>141.00<br>495.<br>0.   |                               | OF DAM<br>41.11<br>549.<br>439.   |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| 1 |      |   | 1.00               |                                  |                              |                             | 1010.<br>REACH ANALYSIS<br>STEP USED D |                               |                                   | 0.00                        |
|   | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRE<br>113.48<br>330.<br>0.   |                               | OF DAM<br>13.65<br>346.<br>98.    |                             |
|   |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00               | 114.19                           | 0.54                         | 397.                        | 1180.                                  | 106.00                        | 30.00                             | 0.00                        |

#### **HEC-1 MODEL**

## PROPOSED CONDITIONS 10% DIVERSION

**500-YEAR MODEL** 

\*\* FLOOD HYDROGRAPH PACKAGE (HEC-1)

\* MAY 1991

\* VERSION 4.0.1E

\* Lahey F77L-EM/32 version 5.01

\* Dodson & Associates, Inc.

\* RUN DATE 05/23/01 TIME 15:11:08

1\*

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| х   | х    | xxxxxxx | xx | xxx |       | x   |
|-----|------|---------|----|-----|-------|-----|
| X   | X    | X       | Х  | X   |       | XX  |
| X   | Х    | Х       | Х  |     |       | Х   |
| XXX | XXXX | XXXX    | Х  |     | XXXXX | х   |
| Х   | X    | X       | Х  |     |       | х   |
| Х   | Х    | X       | X  | Х   |       | Х   |
| Х   | X    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
             Hidalgo County Flood Insurance Study
                                                     Job
                 Job No. 11-00389-002
                                      Fil
                 File Name: Deten500.DAT
                                       Proposed with Detention Conditions
                                                                                500
             * HEC-1 model for the North-West main drain area Model
              Model sequence is as follows: ******
                                                        revise
             * revised rainfall from USGS report 98-4044 REVISE
             * REVISED CN TYPE I ANTECEDANT REVISE
* REVISED LAG BASED ON REVISED CN I LA LOS
             * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN ADDITI
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE SEE SP
             * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 564 BASINS THROUGH STORAGE
                                                MODIFI
             * MODIFIED PULS ROUTING REACHES 5R-9R CORREC
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
                 West Main drain area
             ID
                  500-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  2
             ΙÞ
  3
                  60 1JAN01 0
             IT
                                      300
             * ***********
             * Start calculating hydrograph for the sub water sheds
             * that drain to the West Main drain.
  5
             KK
                 SC-7A SUBWATER SHED
  6
             КM
                 Compute hydrograph for sub-water shed SC-7A
                  18.4
             BA
  8
                                              6.21
                                                    7.66
                                                            8.83 10.75 12.35 13.23
             РН
                   0.2
             LS
                 5.721
 10
             UD
                  53.5
             * ***************
 11
             ΚK
 12
             КM
                 Route hydrograph from head water to node 1 using Muskingum-Cunge Method
 13
             RD
 14
             RC
                  0.08
                         0.03
                                0.08
                                      19200 0.0002
                                                      217
 15
             RX
                  1000
                         2500
                                2917
                                      2994
                                              3005
                                                     3061
                                                            4500
                                                                   5000
                               204.4 191.53 191.53
 16
             RY
                 203.5
                        202.0
                                                    204.5
                                                           199.9
                                                                  199.0
             KK
                 SC-7B SUBWATER SHED
 17
                 Compute hydrograph for sub-water shed SC-7B
             КM
 18
 19
             BA
                  9.82
                 5.282
             UD
                  20.1
```

RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|   |                 |         | PEAK   | TIME OF | AMEDACE E | FLOW FOR MAXIMUM PERIOD |         | DACTN         | Marierage        |                      |  |
|---|-----------------|---------|--------|---------|-----------|-------------------------|---------|---------------|------------------|----------------------|--|
|   | OPERATION       | STATION | FLOW   | PEAK    |           |                         |         | BASIN<br>AREA | MAXIMUM<br>STAGE | TIME OF<br>MAX STAGE |  |
| + |                 |         |        |         | 6-HOUR    | 24-HOUR                 | 72-HOUR |               |                  |                      |  |
| + | HYDROGRAPH AT   | SC-7A   | 615.   | 68.00   | 614.      | 598.                    | 473.    | 18.40         |                  |                      |  |
|   | ROUTED TO       |         | 0131   | 33.33   |           | 554.                    | 4,5.    | 10.40         |                  |                      |  |
| + | NOTED 10        | 1R      | 614.   | 71.00   | 613.      | 596.                    | 473.    | 18.40         |                  |                      |  |
|   | HYDROGRAPH AT   |         |        |         |           |                         |         |               |                  |                      |  |
| + |                 | SC-7B   | 939.   | 35.00   | 925.      | 771.                    | 365.    | 9.82          |                  |                      |  |
| + | 2 COMBINED AT   | 10      | 1000   | 26.00   | 1070      | 070                     | 7.60    |               |                  |                      |  |
| r |                 | 10      | 1080.  | 36.00   | 1072.     | 970.                    | 760.    | 28.22         |                  |                      |  |
| + | ROUTED TO       | 2R      | 1059   | 43.00   | 1053.     | 963.                    | 756.    | 28.22         |                  |                      |  |
|   | HYDROGRAPH AT   |         |        |         |           |                         |         |               |                  |                      |  |
| + |                 | SC-7C   | 1667.  | 42.00   | 1654.     | 1492.                   | 838.    | 23.00         |                  |                      |  |
|   | HYDROGRAPH AT   |         |        |         |           |                         |         |               |                  |                      |  |
| + | •               | SC-6A   | 1773.  | 65.00   | 1771.     | 1717.                   | 1327.   | 41,66         |                  |                      |  |
| + | 3 COMBINED AT   | 2C      | 3910.  | 47.00   | 3889.     | 3680.                   | 2849.   | 92.88         |                  |                      |  |
|   | ROUTED TO       |         |        |         |           |                         |         | 32.00         |                  |                      |  |
| + | KOOTED TO       | 3R      | 3859.  | 53.00   | 3843.     | 3654.                   | 2841.   | 92.88         |                  |                      |  |
|   | HYDROGRAPH AT   |         |        |         |           |                         |         |               |                  |                      |  |
| + |                 | SC-6B   | 967.   | 37.00   | 956.      | 824.                    | 414.    | 6.58          |                  |                      |  |
|   | HYDROGRAPH AT   | 00.75   | 535    | 40.00   | F 1.2     | 454                     | 0.45    |               |                  |                      |  |
| + |                 | SC-7D   | 515.   | 40.00   | 511.      | 454.                    | 245.    | 6.15          |                  |                      |  |
| + | ROUTED TO       | 3R      | 507.   | 41.00   | 502.      | 447.                    | 244.    | 6.15          |                  |                      |  |
|   | 3 COMBINED AT   |         |        |         |           | •                       |         |               |                  | •                    |  |
| + |                 | 3C      | 4804.  | 48.00   | 4783.     | 4517.                   | 3425.   | 105.61        |                  |                      |  |
|   | ROUTED TO       |         |        |         |           |                         |         |               |                  |                      |  |
| + |                 | 4R      | 4288.  | 59.00   | 4276.     | 4123.                   | 3315.   | 105.61        |                  |                      |  |
| + | HYDROGRAPH AT   | SC5A    | 2193.  | 65.00   | 2190.     | 2125.                   | 1649.   | 38.43         |                  |                      |  |
|   | DOUMED MO       | 00011   | 41,50  | 02.00   | 2270.     | 220.                    | 1015.   | 30.43         |                  |                      |  |
| + | ROUTED TO       | 5ACANA  | 2190.  | 67.00   | 2187.     | 2121.                   | 1587.   | 38.43         |                  |                      |  |
| + |                 |         |        |         |           |                         |         |               | 141.13           | 67.00                |  |
| + | ROUTED TO       | 5AROUT  | 2191.  | 69.00   | 2187.     | 2121.                   | 1585.   | 38.43         |                  |                      |  |
|   | HYDROGRAPH AT   |         |        |         |           |                         |         |               |                  |                      |  |
| + | IIIDROGRAFII AI | SC5A1   | 1206.  | 29.00   | 1176.     | 871.                    | 357.    | 5.64          |                  |                      |  |
|   | 2 COMBINED AT   |         |        |         |           |                         |         |               |                  |                      |  |
| + |                 | 5AA1    | 2218.  | 67.00   | 2215.     | 2155.                   | 1612.   | 44.07         |                  |                      |  |
| + | ROUTED TO       | 5A1CAN  | 2217.  | 68.00   | 2214.     | 2154.                   | 1606.   | 44.07         |                  |                      |  |
| + |                 | OUTOWN  | 441.   | 00.00   | 2214·     | T+04.                   | 1000.   | 41.0/         | 117.30           | 68.00                |  |
|   | ROUTED TO       |         |        |         |           |                         |         |               |                  |                      |  |
| + |                 | 5A1RT   | 2217.  | 72.00   | 2213.     | 2153.                   | 1602.   | 44.07         |                  |                      |  |
| + | HYDROGRAPH AT   | SC5B    | 1984.  | 27.00   | 1923.     | 1342.                   | 524.    | 9.02          |                  |                      |  |
| • | 0.0000000000    | 0000    | 4.704+ | 21.00   | 1363.     | 1245.                   | J24.    | 3.02          |                  |                      |  |
| + | 2 COMBINED AT   | 4C1     | 2231.  | 71.00   | 2228.     | 2169.                   | 1655.   | 53.09         |                  |                      |  |
|   |                 |         |        |         |           |                         |         |               |                  |                      |  |

|               | HYDROGRAPH AT                | SC-4A  | 2429.  | 51.00  | 2422.  | 2287.  | 1525. | 30.73  |        |       |
|---------------|------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|-------|
| <i>+</i><br>+ | ROUTED TO                    | 4ACANA | 2399.  | 55.00  | 2382.  | 2168.  | 1250. | 30.73  | 172.70 | 55.00 |
| +             | ROUTED TO                    | 4AROUT | 2399.  | 56.00  | 2381.  | 2164.  | 1248. | 30.73  |        |       |
| +             | HYDROGRAPH AT                | SC-4A1 | 1978.  | 24.00  | 1899.  | 1215.  | 448.  | 7.34   |        |       |
| +             | 2 COMBINED AT                | SC4AA1 | 2435.  | 56.00  | 2418.  | 2194.  | 1470. | 38.07  |        |       |
| <b>+</b><br>+ | ROUTED TO                    | 4A1CAN | 2431.  | 56.00  | 2414.  | 2190.  | 1437. | 38.07  | 141.34 | 56.00 |
| +             | ROUTED TO                    | 4A1ROU | 2429.  | 58.00  | 2413.  | 2187.  | 1432. | 38.07  |        |       |
| +             | HYDROGRAPH AT                | SC-4B  | 1961.  | 20.00  | 1782.  | 870.   | 296.  | 5.44   |        |       |
| +             | 2 COMBINED AT                | SC4AAB | 3037.  | 25.00  | 2585.  | 2187.  | 1617. | 43.51  |        |       |
| + +           | ROUTED TO                    | 4BCANA | 3043.  | 26.00  | 2558.  | 2185.  | 1599. | 43.51  | 114.67 | 26.00 |
| +             | ROUTED TO                    | 4AABRT | 2873.  | 28.00  | 2545.  | 2177.  | 1594. | 43.51  |        |       |
| +             | HYDROGRAPH AT                | SC-4B1 | 1436.  | 26.00  | 1385.  | 937.   | 358.  | 6.07   |        |       |
| +             | 2 COMBINED AT                | SC-4   | 4249.  | 27.00  | 3822.  | 2510.  | 1911. | 49.58  |        |       |
| +             | 3 COMBINED AT                | 4C2    | 8788.  | 61.00  | 8750.  | 8195.  | 6657. | 208.28 |        |       |
| +             | ROUTED TO                    | 5R     | 7553.  | 77.00  | 7541.  | 7374.  | 6208. | 208.28 |        | •     |
| +             | HYDROGRAPH AT                | sc-3   | 2698.  | 76.00  | 2695.  | 2645.  | 2224. | 56.44  |        |       |
| +             | 2 COMBINED AT                | 5C     | 10250. | 76.00  | 10236. | 10019. | 8414. | 264.72 |        |       |
| +             | DIVERSION TO                 | DIV1   | 2125.  | 76.00  | 2122.  | 2073.  | 1702. | 264.72 |        |       |
| +             | HYDROGRAPH AT                | DIVI   | 8125.  | 76.00  | 8114.  | 7946.  | 6711. | 264:72 |        |       |
| +             | ROUTED TO                    | 6R     | 7493.  | 96.00  | 7481.  | 7321.  | 6275. | 264.72 |        |       |
| +             | HYDROGRAPH AT  2 COMBINED AT | SC-3B  | 556.   | 49.00  | 554.   | 518.   | 330.  | 6.71   |        |       |
| +             | ROUTED TO                    | 6C     | 7583.  | 95.00  | 7571.  | 7413.  | 6371. | 271.43 |        |       |
| +             | HYDROGRAPH AT                | 7R     | 7420.  | 102.00 | 7409.  | 7260.  | 6301. | 271.43 |        |       |
| +             | 2 COMBINED AT                | SC-2   | 412.   | 71.00  | 412.   | 402.   | 326.  | 11.48  |        |       |
| +             | ROUTED TO                    | 70     |        | 101.00 | 7672.  | 7517.  | 6529. | 282.91 |        |       |
| `             |                              | 8R     | 7222.  | 119.00 | 7214.  | 7104.  | 6402. | 282.91 |        |       |

| + | HYDROGRAPH AT | SC-1  | 648.   | 52.00  | 647.   | 613.   | 417.   | 7.07   |  |
|---|---------------|-------|--------|--------|--------|--------|--------|--------|--|
| + | 2 COMBINED AT | 8C1   | 7282.  | 118.00 | 7274.  | 7166.  | 6475.  | 289.98 |  |
| + | HYDROGRAPH AT | SC-8  | 1392.  | 67.00  | 1390.  | 1352.  | 1071.  | 19.99  |  |
| + | ROUTED TO     | 1BR   | 1390.  | 70.00  | 1388.  | 1350.  | 1070.  | 19.99  |  |
| + | HYDROGRAPH AT | SM-18 | 1262.  | 70.00  | 1261.  | 1230.  | 990.   | 27.11  |  |
| + | 2 COMBINED AT | 1BC1  | 2652.  | 70.00  | 2649.  | 2580.  | 2060.  | 47.10  |  |
| + | HYDROGRAPH AT | SM-17 | 839.   | 50.00  | 836.   | 787.   | 517.   | 7.03   |  |
| + | 2 COMBINED AT | 1BC2  | 3271.  | 63.00  | 3260.  | 3158.  | 2523.  | 54.13  |  |
|   | ROUTED TO     |       |        |        |        | 3158.  | 2522.  | 54.13  |  |
| + | HYDROGRAPH AT | 2BR   | 3269.  | 64.00  | 3259.  |        | 980.   | 25.18  |  |
| + | 2 COMBINED AT | SM-16 | 1199.  | 75.00  | 1198.  | 1174.  |        |        |  |
| + | ROUTED TO     | 2BC   | 4412.  | 67.00  | 4403.  | 4281.  | 3483,  | 79.31  |  |
| + | HYDROGRAPH AT | 3BR   | 4410.  | 68.00  | 4401.  | 4278.  | 3482.  | 79.31  |  |
| + | 2 COMBINED AT | SM-15 | 963,   | 54.00  | 961.   | 915.   | 638.   | 11.10  |  |
| + | ROUTED TO     | 3BC   | 5237.  | 65.00  | 5224.  | 5068.  | 4084.  | 90.41  |  |
| + | HYDROGRAPH AT | 4BR   | 5173.  | 69.00  | 5162.  | 5016.  | 4069.  | 90.41  |  |
| + |               | SM-14 | 1056.  | 82.00  | 1055.  | 1039.  | 900.   | 21.60  |  |
| + | 2 COMBINED AT | 4BC   | 6165.  | 71.00  | 6154.  | 5991.  | 4919.  | 112.01 |  |
| + | ROUTED TO     | 8BR   | 6163.  | 71.00  | 6151.  | 5989.  | 4917.  | 112.01 |  |
| + | HYDROGRAPH AT | SM-13 | 704.   | 88.00  | 703.   | 694.   | 613.   | 22.25  |  |
| + | 2 COMBINED AT | 8C2   | 6802.  | 73.00  | 6790.  | 6619.  | 5484.  | 134.26 |  |
| + | 2 COMBINED AT | 8C3   | 11517. | 85.00  | 11512. | 11472. | 10935. | 424.24 |  |
| + | ROUTED TO     | 9R    | 11498. | 93.00  | 11495. | 11453. | 10906. | 424.24 |  |
| + | HYDROGRAPH AT | 295   | 1331.  | 41.00  | 1320.  | 1176.  | 638.   | 12.28  |  |
| + | 2 COMBINED AT | Com9A | 11576. | 90.00  | 11573. | 11533. | 11017. | 436.52 |  |
| + | HYDROGRAPH AT | 28S   | 1901.  | 53.00  | 1897.  | 1797.  | 1220.  | 25.91  |  |
| + | 2 COMBINED AT | Com9B | 12335. | 77.00  | 12329. | 12252. | 11717. | 462.43 |  |
| + | ROUTED TO     | Rt10  | 12088. | 93.00  | 12084. | 12022. | 11417. | 462.43 |  |

|          | DIVERSION TO  | DIV2   | 2000.  | 93.00  | 2000.  | 2000.  | 2000. | 462.43 |
|----------|---------------|--------|--------|--------|--------|--------|-------|--------|
| +        | HYDROGRAPH AT | DIV2   | 10088. | 93.00  | 10094. | 10022. | 9417. | 462.43 |
| +        | HYDROGRAPH AT | 27S    | 2303.  | 29.00  | 2247.  | 1662.  | 679.  | 12.15  |
| +        | 2 COMBINED AT | Com10A | 10089. | 93.00  | 10085. | 10023. | 9423. | 474.58 |
| +        | HYDROGRAPH AT | 268    | 2171.  | 27.00  | 2110.  | 1509.  | 598.  | 10.55  |
| +        | HYDROGRAPH AT | 248    | 746.   | 29.00  | 728.   | 538.   | 220.  | 3.83   |
| +        | 3 COMBINED AT | Com10B | 10089. | 93.00  | 10085. | 10024. | 9429. | 488.96 |
| +        | ROUTED TO     | Rt11   | 9924.  | 105.00 | 9920.  | 9861.  | 9288. | 488.96 |
| +        | HYDROGRAPH AT | 225    | 1089.  | 35.00  | 1074.  | 898.   | 427.  | 7.55   |
| +        | 2 COMBINED AT | Com11A | 9932.  | 105.00 | 9927.  | 9868.  | 9299. | 496.51 |
| +        | HYDROGRAPH AT | 208    | 1266.  | 38.00  | 1254.  | 1098.  | 570.  | 10.57  |
| +        | 2 COMBINED AT | Com11B | 9953.  | 105.00 | 9949.  | 9890.  | 9331. | 507.08 |
| +        | ROUTED TO     | Rt12   | 9933.  | 109.00 | 9929.  | 9869.  | 9300. | 507.08 |
| +        | HYDROGRAPH AT | 185    | 800.   | 30.00  | 785.   | 608.   | 261.  | 4.69   |
| +        | 2 COMBINED AT | Com12  | 9933.  | 109.00 | 9929.  | 9869.  | 9301. | 511.77 |
| +        | ROUTED TO     | Rt13   | 9925.  | 111.00 | 9921.  | 9861.  | 9291. | 511.77 |
| +        | HYDROGRAPH AT | 165    | 1039.  | 38.00  | 1027.  | 895.   | 460.  | 9.60   |
| +        | 2 COMBINED AT | Com13A | 9936.  | 111.00 | 9932.  | 9872.  | 9306. | 521.37 |
| +        | HYDROGRAPH AT | 158    | 1774.  | 51.00  | 1769.  | 1665.  | 1096. | 25.08  |
| +        | 2 COMBINED AT | Com13B | 10130. | 107.00 | 10126. | 10067. | 9520. | 546.45 |
| +        | HYDROGRAPH AT | Rt14   | 10016. | 118.00 | 10012. | 9954.  | 9465. | 546.45 |
| +        | 2 COMBINED AT | 13\$   | 1504.  | 47.00  | 1497.  | 1389.  | 861.  | 19.76  |
| +        | HYDROGRAPH AT | Com14A | 10085. | 117.00 | 10081. | 10025. | 9565. | 566.21 |
| <i>.</i> | 2 COMBINED AT | 148    | 1161.  | 37.00  | 1148.  | 993.   | 503.  | 9.53   |
| +        | ROUTED TO     | Com14B | 10431. | 54.00  | 10402. | 10032. | 9595. | 575.74 |
| +        | HYDROGRAPH AT | Rt15   | 10113. | 60.00  | 10084. | 9998.  | 9571. | 575.74 |
| ,        | AIDNOGRAFA AI | 118    | 1846.  | 26.00  | 1780.  | 1207.  | 461.  | 8.20   |

| + | 2 COMBINED AT | Com15  | 10151. | . 60.00 | 10123. | 9998.  | 9571.  | 583.94 |
|---|---------------|--------|--------|---------|--------|--------|--------|--------|
| + | ROUTED TO     | Rt16   | 10010. | 128.00  | 10006. | 9954.  | 9563.  | 583.94 |
| + | HYDROGRAPH AT | 78     | 2078.  | 53.00   | 2072.  | 1962.  | 1327.  | 29.41  |
| + | 2 COMBINED AT | Com16  | 11410. | 65.00   | 11370. | 10969. | 10209. | 613.35 |
| + | ROUTED TO     | Rt17   | 10854. | 74.00   | 10837. | 10634. | 10146. | 613.35 |
| + | HYDROGRAPH AT | 6S     | 2125.  | 27.00   | 2061.  | 1435.  | 558.   | 9.21   |
| + | 2 COMBINED AT | Com17  | 10865. | 73.00   | 10848. | 10646. | 10151. | 622.56 |
| + | ROUTED TO     | Rt18   | 10649. | 80.00   | 10631. | 10406. | 10072. | 622.56 |
| + | HYDROGRAPH AT | 48     | 3358.  | 34.00   | 3304.  | 2730.  | 1272.  | 22.35  |
| + | 2 COMBINED AT | Com18A | 10765. | 80.00   | 10746. | 10509. | 10110. | 644.91 |
| + | HYDROGRAPH AT | 38     | 979,   | 30.00   | 958.   | 733.   | 310.   | 4.49   |
| + | 2 COMBINED AT | Com18B | 10776. | 80.00   | 10757. | 10518. | 10114. | 649.40 |
| + | ROUTED TO     | Rt19   | 10746. | 82.00   | 10727. | 10496. | 10108. | 649.40 |
| + | HYDROGRAPH AT | 25     | 1786.  | 23.00   | 1702.  | 1041.  | 376.   | 5.35   |
| + | 2 COMBINED AT | Com19A | 10746. | 82.00   | 10727. | 10496. | 10108. | 654.75 |
| + | HYDROGRAPH AT | 18     | 1221.  | 34.00   | 1206.  | 1007.  | 479.   | 7.47   |
| + | 2 COMBINED AT | Com19B | 10850. | 36.00   | 10788. | 10536. | 10123. | 662.22 |
| + | HYDROGRAPH AT | DIV1   | 2125.  | 76.00   | 2122.  | 2073.  | 1702.  | 0.00   |
| + | HYDROGRAPH AT | SC-3A  | 334.   | 72.00   | 334.   | 326.   | 268.   | 5.87   |
| + | 2 COMBINED AT | 20C    | 2458.  | 76.00   | 2454.  | 2396.  | 1971.  | 5.87   |
| + | ROUTED TO     | 21R    | 1869.  | 101.00  | 1866.  | 1834.  | 1589.  | 5.87   |
| + | HYDROGRAPH AT | 29aR   | 540.   | 36.00   | 534.   | 456.   | 225.   | 4.84   |
| + | 2 COMBINED AT | Com21A | 1876.  | 100.00  | 1874.  | 1842.  | 1603.  | 10.71  |
| + | HYDROGRAPH AT | 29R    | 1279.  | 46.00   | 1272.  | 1173.  | 709.   | 18.03  |
| + | 2 COMBINED AT | Com21B | 2197.  | 45.00   | 2186.  | 2073.  | 1953.  | 28.74  |
| + | ROUTED TO     | 22R    | 2091.  | 51.00   | 2084.  | 2005.  | 1933.  | 28.74  |
| + | HYDROGRAPH AT | 28aR   | 345.   | 26.00   | 333.   | 226.   | 86.    | 2.35   |
|   |               |        |        |         |        |        |        |        |

| +   | 2 COMBINED AT | Com22  | 2115. | 50.00  | 2108. | 2029. | 1941. | 31.09  |
|-----|---------------|--------|-------|--------|-------|-------|-------|--------|
| +   | ROUTED TO     | Rt23   | 1908. | 113.00 | 1907. | 1894. |       |        |
| +   | HYDROGRAPH AT | 24R    | 1527. | 49.00  | 1521. | 1422. |       | 22.22  |
|     | 2 COMBINED AT |        |       |        |       |       |       |        |
| +   | HYDROGRAPH AT | Com23A | 2996. | 54.00  | 2989. | 2890. | 2459. | 53.31  |
| +   |               | 28R    | 359.  | 31.00  | 352.  | 270.  | 114.  | 4.68   |
| +   | ROUTED TO     | Rt24   | 340.  | 36.00  | 333.  | 257.  | 113.  | 4.68   |
| +   | HYDROGRAPH AT | 25R    | 925.  | 37.00  | 913.  | 785.  | 392.  | 8.99   |
| +   | HYDROGRAPH AT | 27R    | 1722. | 49.00  | 1716. | 1602. | 1018. | 23.93  |
| +   | 3 COMBINED AT | Com24  | 2734. | 41.00  | 2717. | 2481. | 1515. | 37.60  |
| +   | ROUTED TO     | Rt25   | 2703. | 45.00  | 2684. | 2452. | 1506. | 37.60  |
| +   | HYDROGRAPH AT | 22R    | 1763. | 45.00  | 1755. | 1617. | 975.  | 18.04  |
| +   | 2 COMBINED AT | Com25  | 4466. | 45.00  | 4439. | 4066. | 2469. | 55.64  |
| +   | HYDROGRAPH AT | 19R    | 971.  | 40.00  | 962.  | 849.  | 450.  | 11.18  |
| +   | 3 COMBINED AT | Com23B | 8107. | 46.00  | 8068. | 7546. | 5252. | 120.13 |
| +   | ROUTED TO     | Rt26A  | 8065. | 48.00  | 8021. | 7477. | 5252. | 120.13 |
| +   | DIVERSION TO  | DIV3   | 313.  | 48.00  | 313.  | 309.  | 256.  | 120.13 |
| +   | HYDROGRAPH AT | DIV3   | 7752. |        | 7709. |       |       |        |
| +   | ROUTED TO     | Rt26B  | 7488. |        |       | 6974. |       |        |
|     | HYDROGRAPH AT | 20R    |       |        |       |       |       |        |
| +   | 2 COMBINED AT |        | 2594. | 35.00  | 2555. | 2145. |       | 18.78  |
| +   | ROUTED TO     | Com26  | 8565. | 49.00  | 8528. | 8020. | 5860. | 138.91 |
| + . |               | Rt27A  | 5143. | 74.00  | 5136. | 5052. | 4535. | 138.91 |
| +   | HYDROGRAPH AT | 13R    | 1915. | 30.00  | 1875. | 1447. | 618.  | 11.50  |
| +   | 2 COMBINED AT | Com27A | 5186. | 73.00  | 5180. | 5098. | 4613. | 150.41 |
| +   | HYDROGRAPH AT | 14R    | 1148. | 37.00  | 1134. | 978.  | 491.  | 9.24   |
| +   | ROUTED TO     | Rt27B  | 1361. | 36.00  | 1134. | 916.  | 457.  | 9.24   |
| +   | 2 COMBINED AT | Com27B | 5406. | 73.00  | 5399. | 5318. | 4925. | 159.65 |
| +   | ROUTED TO     | Rt28   | 5312. | 80.00  | 5308. | 5247. | 4835. | 159.65 |

| +            | HYDROGRAPH AT | 11R    | 2168. | 25.00  | 2085. | 1348. | 499.  | 10.09  |
|--------------|---------------|--------|-------|--------|-------|-------|-------|--------|
| +            | 2 COMBINED AT | Com28A | 5312. | 80.00  | 5308. | 5247. | 4852. | 169.74 |
| +            | HYDROGRAPH AT | 8R     | 1676. | 26.00  | 1620. | 1094. | 415.  | 11.62  |
| +            | 2 COMBINED AT | Com28B | 5312. | 80.00  | 5308. | 5249. | 4895. | 181.36 |
| +            | ROUTED TO     | Rt29   | 5274. | 85.00  | 5271. | 5218. | 4873. | 181.36 |
| +            | HYDROGRAPH AT | 10R    | 3150. | 33.00  | 3103. | 2545. | 1174. | 21.47  |
| +            | 2 COMBINED AT | Com29  | 7333. | 35.00  | 7263. | 6528. | 5683. | 202.63 |
| +            | ROUTED TO     | Rt30   | 6648. | 42.00  | 6591. | 6067. | 5521. | 202.83 |
| +            | HYDROGRAPH AT | 6R     | 1597. | 43.00  | 1586, | 1436. | 815.  | 16.37  |
| +            | 2 COMBINED AT | Com30A | 8244. | 42.00  | 8178. | 7475. | 6229. | 219.20 |
|              | HYDROGRAPH AT | 4R     | 825.  | 30.00  | 806.  | 615.  | 259.  |        |
| +            | 2 COMBINED AT |        |       |        |       |       |       | 4.73   |
| +            | ROUTED TO     | Com30B | 8639. | 41.00  | 8571. | 7801. | 6378. | 223.93 |
| +            | HYDROGRAPH AT | Rt31   | 7931. | 48.00  | 7876. | 7310. | 6184. | 223.93 |
| +            | 2 COMBINED AT | 2R     | 1521. | 25.00  | 1461. | 955.  | 357.  | 5.58   |
| +            | HYDROGRAPH AT | Com31A | 8046. | 47.00  | 7985. | 7407. | 6232. | 229.51 |
| +            | 2 COMBINED AT | 3R     | 946.  | 28.00  | 921.  | 661.  | 263.  | 4.47   |
| +            | ROUTED TO     | Com31B | 8209. | 47.00  | 8149. | 7545. | 6299. | 233.98 |
| +            | HYDROGRAPH AT | Rt32   | 6691. | 61.00  | 6676. | 6488. | 5900. | 233.98 |
| +            | 2 COMBINED AT | 1R     | 2905. | 34.00  | 2865. | 2365. | 1101. | 16.89  |
| +            | HYDROGRAPH AT | Com32  | 7211. | 58.00  | 7190. | 6950. | 6198, | 250.87 |
| +            |               | DIV3   | 313.  | 48.00  | 313.  | 309.  | 256.  | 0.00   |
| +            | HYDROGRAPH AT | 17R    | 954.  | 33.00  | 939.  | 768.  | 353.  | 6.47   |
| +            | 2 COMBINED AT | Com33A | 1182. | 35.00  | 1174. | 1013. | 594.  | 6.47   |
| +            | HYDROGRAPH AT | 23R    | 3628. | 82.00  | 3625. | 3570. | 3089. | 94.54  |
| +            | 2 COMBINED AT | Com33B | 3874. | 81.00  | 3871. | 3822. | 3368. | 101.01 |
| <del>†</del> | ROUTED TO     | LSV    | 1544. | 139.00 | 1543. | 1536. | 1458. | 101.01 |

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## SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

|            |         |         |             | ()         | FLOW IS DIREC   | T RUNOFF W     | TTHOUT B          | •           | LATED TO        |                   |        |      |
|------------|---------|---------|-------------|------------|-----------------|----------------|-------------------|-------------|-----------------|-------------------|--------|------|
|            | ISTAQ   | ELEMENT | DT          | PEAK       | TIME TO<br>PEAK | VO <b>LUME</b> | TG                | PEAK        | TIME TO<br>PEAK | VOLUME            |        |      |
|            |         |         | (MIN)       | (CFS)      | (MIN)           | (IN)           | (MIN)             | (CFS)       | (MIN)           | (IN)              |        |      |
|            | 1R      | MANE    | 60.00       | 614.33     | 4260.00         | 3.76           | 60.00             | 614.33      | 4260.00         | 3.76              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 3685E+04 I | EXCESS=0.0000   | E+00 OUTFI     | OW=0.368          | 6E+04 BASIN | STORAGE=0.      | 8150E-02 PERCENT  | ERROR= | 0.0  |
|            | 2R      | MANE    | 60.00       | 1059.05    | 2580.00         | 3.91           | 60.00             | 1059.05     | 2580.00         | 3.91              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 5883E+04 E | EXCESS=0.0000   | E+00 OUTFL     | OW=0.588          | 9E+04 BASIN | STORAGE=0       | 2276E-01 PERCENT  | ERROR= | -0.1 |
|            | 3R      | MANE    | 60.00       | 3859.20    | 3180.00         | 4.26           | 60.00             | 3859.20     | 3180.00         | 4.26              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 2114E+05 F | EXCESS=0.0000   | E+00 OUTFI     | OW=0.211          | 1E+05 BASIN | STORAGE=0       | 1006E+00 PERCENT  | ERROR= | 0.1  |
|            | 3R      | MANE    | 60.00       | 506.73     | 2460.00         | 4.60           | 60.00             | 506.73      | 2460.00         | 4.60              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1509E+04 F | EXCESS=0.0000   | E+00 OUTFL     | .OW≃0.150         | 7E+04 BASIN | STORAGE=0       | .5237E-02 PERCENT | ERROR= | 0.1  |
|            | SAROUT  | MANE    | 60.00       | 2190.54    | 4140.00         | 5.53           | 60.00             | 2190.54     | 4140.00         | 5.53              |        | ,    |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1132E+05 F | EXCESS=0.0000   | E+00 OUTFL     | O <b>W</b> =0.113 | 3E+05 BASIN | STORAGE=0       | 6137E+00 PERCENT  | ERROR= | -0.1 |
|            | 5A1RT   | MANE    | 60.00       | 2216.61    | 4320.00         | 5.31           | 60.00             | 2216.61     | 4320.00         | 5.31              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1248E+05 F | EXCESS=0.0000   | E+00 OUTF1     | .OW⇒0.124         | 7E+05 BASIN | STORAGE=0.      | 2463E+01 PERCENT  | ERROR= | 0.0  |
|            | 4AROUT  | MANE    | 39.00       | 2399.22    | 3354.00         | 4.92           | 60.00             | 2398.84     | 3360.00         | 4.92              | ,      |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 8063E+04 I | EXCESS=0.0000   | E+00 OUTFI     | .OW=0.806         | 6E+04 BASIN | STORAGE=0       | 1845E+00 PERCENT  | ERROR= | 0.0  |
|            | 4A1ROU  | MANE    | 33.00       | 2431.12    | 3465.00         | 5.04           | 60.00             | 2429.39     | 3480.00         | 5.05              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1024E+05 I | EXCESS=0.0000   | E+00 OUTFI     | OW=0.102          | 4E+05 BASIN | STORAGE=0       | 2400E+00 PERCENT  | ERROR= | -0.1 |
|            | 4AABRT  | MANE    | 15.00       | 2946.33    | 1650.00         | 5.04           | 60.00             | 2872.84     | 1680.00         | 5.04              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1168E+05 I | EXCESS=0.000    | )E+00 OUTFI    | OW=0.116          | 9E+05 BASIN | STORAGE=0       | .1024E+01 PERCENT | ERROR= | -0.1 |
|            | 1BR     | MANE    | 60.00       | 1389.67    | 4200.00         | 7.81           | 60.00             | 1389.67     | 4200.00         | 7.81              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 8329E+04 1 | EXCESS=0.000    | DE+00 OUTFI    | OW=0.832          | 9E+04 BASIN | STORAGE=0       | .1072E-01 PERCENT | ERROR= | 0.0  |
|            | 2BR     | MANE    | 39.95       | 3269.23    | 3875.55         | 6.80           | 60.00             | 3269.02     | 3840.00         | 6.80              |        |      |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1964E+05 I | EXCESS=0.0000   | E+00 OUTFI     | .OW=0.196         | 4E+05 BASIN | STORAGE=0       | .1748E-01 PERCENT | ERROR= | 0.0  |
|            | 3BR     | MANE    | 41.65       | 4409.98    | 4081.26         | 6.59           | 60.00             | 4409.93     | 4080.00         | 6.59              |        |      |
| C .INUITY  | SUMMARY | (AC~FT) | - INFLOW≃0. | 2788E+05 ( | EXCESS=0.0000   | E+00 OUTFI     | .OW=0.278         | 8E+05 BASIN | STORAGE=0       | .7011E+00 PERCENT | ERROR≈ | 0.0  |

|            | 4BR     | MANE    | 56.09      | 5174.19   | 4151.03      | 6.68        | 60.00     | 5173.48     | 4140.00  | 6.68               |        |     |
|------------|---------|---------|------------|-----------|--------------|-------------|-----------|-------------|----------|--------------------|--------|-----|
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0 | .3228E+05 | EXCESS=0.000 | OE+00 OUTFL | OW=0.3220 | E+05 BASIN  | STORAGE= | 0.1039E+01 PERCENT | ERROR= | 0.2 |
|            | 8BR     | MANE    | 50.18      | 6163.49   | 4265.40      | 6.75        | 60.00     | 6162.93     | 4260.00  | 6.75               |        |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0 | .4031E+05 | EXCESS=0.000 | 0E+00 OUTFL | O₩=0.4031 | LE+05 BASIN | STORAGE= | 0.2775E+01 PERCENT | ERROR⇒ | 0.0 |
|            | 9R      | MANE    | 60.00      | 11497.94  | 5580.00      | 5.03        | 60.00     | 11497.94    | 5580.00  | 5.03               |        |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0 | .1139E+06 | EXCESS=0.000 | 0E+00 OUTFL | OW≃0.1138 | BE+06 BASIN | STORAGE= | 0.4137E+02 PERCENT | ERROR= | 0.1 |
|            | Rt24    | MANE    | 57.00      | 339.66    | 2166.00      | 2.69        | 60.00     | 339.55      | 2160.00  | 2.69               |        |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0 | .6788E+03 | EXCESS=0.000 | 0E+00 OUTFL | O₩=0.6721 | LE+03 BASIN | STORAGE= | 0.2698E+00 PERCENT | ERROR≔ | 0.9 |
|            | Rt25    | MANE    | 60.00      | 2702.75   | 2700.00      | 4.83        | 60.00     | 2702.75     | 2700.00  | 4.83               |        |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0 | .9688E+04 | EXCESS=0.000 | OE+OO OUTFL | OW=0.9681 | LE+04 BASIN | STORAGE= | 0.5466E+00 PERCENT | ERROR= | 0.1 |

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## SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>135               | VALUE<br>5.00<br>0.         | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|---|------|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 2190.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>115               | VALUE<br>0.00<br>0.         | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 2217.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
| _ | PLAN | 1                  | . ELEVATION STORAGE OUTFLOW      | INITIAL<br>160               | VALUE<br>0.00<br>0.<br>0.   | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 2399.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               | . VALUE<br>0.00<br>0.<br>0. | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 2431.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITI <b>AL</b><br>110       | VALUE<br>0.00<br>0.         | SPILLWAY CRE<br>113.48<br>330.<br>0.  | -                             | OF DAM<br>113.65<br>346.<br>98.    |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      | 1.00               | 114.67                           | 1.02                         | 443.                        | 3043.                                 | 135.00                        | 26.00                              | 0.00                        |

**HEC-1 MODEL** 

PROPOSED CONDITIONS 25% DIVERSION

25-YEAR MODEL

| 1******************               | ** |
|-----------------------------------|----|
|                                   | *  |
| FLOOD HYDROGRAPH PACKAGE (HEC-1)  | *  |
| MAY 1991                          | *  |
| * VERSION 4.0.1E                  | *  |
| * Lahey F77L-EM/32 version 5.01   | *  |
| * Dodson & Associates, Inc.       | *  |
| * RUN DATE 11/12/01 TIME 11:12:25 | *  |
|                                   |    |

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| х   | х    | XXXXXXX | XX  | XXX |       | х   |
|-----|------|---------|-----|-----|-------|-----|
| x   | х    | x       | Х   | х   |       | XX  |
| x   | х    | Х       | Х   |     |       | Х   |
| XXX | XXXX | XXXX    | X   |     | XXXXX | х   |
| x   | X    | x       | x   |     |       | X   |
| х   | Х    | x       | X   | X   |       | X   |
| х   | x    | XXXXXXX | XX. | XXX |       | YXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

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LINE
              Hidalgo County Flood Insurance Study
                  Job No. 11-00389-002
                  File Name: Deten025.DAT
                                            Proposed with Detention Conditions
                   25-year Rain-fall
                                            Future Development
              * HEC-1 model for the North-West main drain area
              * Model sequence is as follows:
                **********
              * revised rainfall from USGS report 98-4044
             * REVISED CN TYPE I ANTECEDANT

* REVISED LAG BASED ON REVISED CN I

* IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
              * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
              * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
              * ROUTED 5&4 BASINS THROUGH STORAGE
              * MODIFIED PULS ROUTING REACHES 5R-9R
              * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
              *DIAGRAM
  1
             ID
                  West Main drain area
  2
             ID
                    25-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  3
             IT
                     60 1JAN01
                                   0
                                         300
  4
             гo
                      5
             * Start calculating hydrograph for the sub water sheds
             * that drain to the West Main drain.
                  SC-7A SUBWATER SHED
  6
7
             KM
                  Compute hydrograph for sub-water shed SC-7A
             BA
                   18.4
  8
             PH
                                                         4.29
                                                                 4.65
                                                                         5.45
                                                                                6.22
                                                                                        6.62
             LS
                  5.721
                             60
 10
                  53.5
******
             UD
 11
             KK
                    112
 12
             KM
                  Route hydrograph from head water to node 1 using Muskingum-Cunge Method
 13
             RD
 14
             RC
                   0.08
                           0.03
                                  0.08
                                        19200 0.0002
                                                          217
 15
             RX
                   1000
                           2500
                                  2917
                                          2994
                                                 3005
                                                         3061
                                                                 4500
                                                                        5000
 16
             RY
                  203.5
                          202.0
                                 204.4 191.53 191.53
                                                        204.5
                                                               199.9
                                                                       199.0
 17
             KK
                  SC-7B SUBWATER SHED
 18
             KM
                  Compute hydrograph for sub-water shed SC-7B
 19
             BA
                   9.82
 20
             LS
                  5.282
 21
             Œ
                  20.1
```

PAGE 2 HEC-1 INPUT

| LINE | ID  | 12345678910   |
|------|-----|---|
| 22   | ĸĸ  | 10  |
| 23   | KM  | Combine hydrograph from SC-7A and SC-7B, at node 1  |
| 24   | HC  | 2   |
| 24   |     | ********  |
| 25   | кĸ  | 2R  |
| 26   | KM  | Route hydrograph from node 1 to node 2              |
| 27   | RD  |   |
| 28   | RC  | 0.08 0.03 0.08 32000 0.0002 187                     |
| 29   | RO. | 1000 2500 2977 2994 3005 3032 4500 5000             |
|      | RY  | 175 173 172 160.91 160.91 174.0 173.0 175.0         |
| 30   |     | 1/3   |
| 31   | 72K | SC-7C SUBWATER SHED                                 |
| 32   | XM  | Compute hydrograph for sub-water shed SC-7C         |
| 33   | BA  | 23  |
| 34   | LS  | 5.028 60  |
| 35   | gp  | 27.4  |
| 33   |     | 6/1-2<br>**************                             |
| 36   | KK  | SC-6A   |
| 37   | KM  | Compute hydrograph for sub-water shed SC-6A         |
| 38   | BA  | 41.66   |
| 39   | LS  | 4.484 60  |
| 40   | UD  | 50.5  |
| 40   |     | 30.3<br>***********************************         |
| 41   | KK  | 2C  |
| 42   | KM  | Combine hydrograph at node 2                        |
| 43   | HC  | 3   |
|      |     | ***********   |
| 44   | ĸĸ  | 3R  |
| 45   | KМ  | Route hydrograph from node 2 to node 3              |
| 46   | RD  |   |
| 47   | RC  | 0.08 0.03 0.08 20800 0.0005 106                     |
| 48   | RX  | 1000 1874.9 1960.8 1966.1 1992.5 2010.8 2037.1 3000 |
| 49   | RY  | 97 98 100 98 88 88 100 99.4                         |
| 4,   |     | *********   |
| 50   | KK  | SC-6B   |
| 51   | KM  | Compute hydrograph for sub-water shed SC-6B         |
| 52   | BA  | 6.58  |
| 53   | LS  | 1.765 60  |
| 54   | מט  | 22.6  |
| 24   |     | ***********   |
| 55   | KK  | SC-7D   |
| 56   | KM  | Compute hydrograph for sub-water shed SC-7D         |
| 57   | BA  | 6.15  |
| 58   | LS  | 4.829 60  |
|      | UD  | 25.6  |
| 59   |     | 23.0<br>**************                              |

| LINE | ID.     | 1      | , 2 .    | 3 .      | 4 .       | 5 .      | 6      | 7       | 8    | 9 10 |
|------|---------|--------|----------|----------|-----------|----------|--------|---------|------|------|
| 60   | ĸĸ      | 3R     |          |          |           |          |        |         |      |      |
| 61   | KM      |        | hydrogra | ph from  | of SC-7D  | to node  | . 3    |         |      |      |
| 62   | RD      |        |          | <b></b>  |           |          | . 5    |         |      |      |
| 63   | RC      | 0.08   | 0.03     | 0.08     | 8000      | 0.0001   | 106    |         |      |      |
| 64   | RX      | 1000   | 1967.5   | 1977.9   |           | 2007     | 2017.3 | 2081    | 3000 |      |
| 65   | RY      | 97.2   | 98       | 90       | 84        | 84       | 90     | 98      | 97   |      |
|      | * *     | *****  | *****    | ****     |           |          |        |         | •    |      |
| 66   | KK      | 3C     |          |          |           |          |        |         |      |      |
| 67   | KM      | Combin | ne three | hydrogra | aph at no | de 3     |        |         |      |      |
| 68   | HC      | 3      |          |          |           |          |        |         |      |      |
|      | * *     | *****  | *****    | ****     |           |          |        |         |      |      |
| 69   | KK      | 4R     |          |          |           |          |        |         |      |      |
| 70   | KM      | Route  | hydrogra | ph from  | node 3 t  | o node 4 |        |         |      |      |
| 71   | RS      | 1      | STOR     | -1       |           |          |        |         |      |      |
| 72   | sv      | 0      | 114      | 489      | 779       | 1639     | 2929   |         |      |      |
| 73   | sQ<br>* | 0      | 680      | 1360     | 1700      | 2715     | 4240   |         |      |      |
|      | *       | 0.08   | 0.03     | 0.08     | 14400 0   | .0006    | 103    |         |      |      |
|      | *       |        |          |          | 1843.6    |          |        | 90.6 28 | 55.2 |      |
|      | *       | 89     | 90       | 84       | 78        | 78       | 84     | 90      | 89   |      |
|      | * *     | ****   | ******   | ****     |           |          |        |         |      |      |
| 74   | KK      | SC5A   | subwate  | r-shed   |           |          |        |         |      |      |
| 75   | KM      |        | e hydrog |          | subwate   | r shed S | C-5A   |         |      |      |
| 76   | BA      | 38.43  |          | -        |           |          |        |         |      |      |
| 77   | LS      | 2.575  | 60       |          |           |          |        |         |      |      |
| 78   | യ       | 51     |          |          |           |          |        |         |      |      |
|      | * *     | ****** | ******   | ****     |           |          |        |         |      |      |
| 79   | KK      | 5ACANA |          |          |           |          |        |         |      |      |
| 80   | KM      | CANAL  | CROSSING | :        |           |          |        |         |      |      |
| 81   | RS      | 1      | ELEV     | 135      | 0         |          |        |         |      |      |
| 82   | SS      | 140.67 | 2000     | 2.8      | 1.5       |          |        |         |      |      |
| 83   | ST      | 140.82 | 2000     | 2.8      | 1.5       |          |        |         |      |      |
| 84   | SW      | 2000   | 2000     | 2000     |           |          |        |         |      |      |
| 85   | 'SE     | 140.96 | 141.14   | 141.28   |           |          |        |         |      |      |
| 86   | sv      | 0      | 537      | 5484     | 7582      |          |        |         |      |      |
| 87   | SE      | 135    | 140      | 145      | 150       |          |        |         |      |      |
|      | * *     | ****** | ******   | ****     |           |          |        |         |      |      |
| 88   | KK      | 5AROUT |          |          |           |          |        |         |      |      |
| 89   | KM      |        | hydrogra | oh TO Do | OWNSTREAM | CANAL    |        |         |      |      |
| 90   | RD      |        | .,       |          |           |          |        |         |      |      |
| 91   | RC      | .06    | .06      | .06      | 11900     | .0023    | 140    |         |      |      |
| 92   | RX      | 0      | 1500     | 3140     | 3690      | 4560     | 5650   | 5885    | 7950 |      |
| 93   | RY      | 140    | 135      | 130      | 125       | 122.5    | 125    | 130     | 135  |      |

|      |     | ·   |       |
|------|-----|---|-------|
| LINE | ID  |   | 8,910 |
|      |     |   |       |
|      |     |   |       |
| 94   | KK  | SC5A1 subwater-shed                         |       |
| 95   | KM  | Compute hydrograph for subwater shed SC-5A1 |       |
| 96   |     |   |       |
|      | BA  | 5.64  |       |
| 97   | LS  | 1.889 60                                    |       |
| 98   | ÚΩ  | 14.8  |       |
|      | *   | **********                                  |       |
|      |     |   |       |
| 99   | KK  | 5AA1  |       |
| 100  |     |   |       |
|      | KM  | Combine two hydrographs                     |       |
| 101  | HC  | 2   |       |
|      | *   | *********                                   |       |
|      |     |   |       |
| 102  | KK  | 5A1CAN                                      |       |
| 103  | KM  | CANAL CROSSING                              |       |
| 104  | RS  | _   |       |
|      |     | ··· ·                                       |       |
| 105  | SS  | 116.8 1900 2.8 1.5                          |       |
| 106  | TZ  | 117.2 4050 2.8 1.5                          |       |
| 107  | sv  | 0 2705                                      |       |
| 108  | SE  | 115 120                                     |       |
|      | *   | ********                                    |       |
|      |     |   |       |
| 109  | WW  | Ex1Dm                                       |       |
|      | KK  | 5A1RT                                       |       |
| 110  | KM  | Route hydrograph TO DOWNSTREAM CANAL        |       |
| 111  | RD  |   |       |
| 112  | RC  | .06 .06 .06 14900 .0017 110                 |       |
| 113  | RX  | 0 2580 4000 5000 6000 9675 10400            | 10450 |
| 114  | RY  | 100 100 95 94 95 100 105                    |       |
| 114  | *   | *****************                           | 105   |
|      |     |   |       |
|      |     |   |       |
| 115  | KK  | SC5B subwater-shed                          |       |
| 116  | KM  | Compute hydrograph for subwater shed SC-5B  |       |
| 117  | BA  | 9.02  |       |
| 118  | LS  | 2.515 60                                    |       |
| 119  | UD  | 13  |       |
|      |     |   |       |
|      |     |   |       |
| 100  |     | 4.01  |       |
| 120  | KK  | 4C1   |       |
| 121  | KM  | Combine two hydrographs                     |       |
| 122  | HC  | 2   |       |
|      | * * | ********                                    |       |
|      |     |   |       |
| 123  | кк  | SC-4A subwater-shed                         |       |
|      |     |   |       |
| 124  | KM  | Compute hydrograph for subwater shed SC-4A  |       |
| 125  | BA  | 30.73                                       |       |
| 126  | LS  | 2.512 60                                    |       |
| 127  | UD  | 37.3  |       |
|      | * 1 | *********                                   |       |
|      |     |   |       |
| 128  | 777 | AACANA                                      |       |
|      | KK  | 4ACANA                                      |       |
| 129  | KM  | CANAL CROSSING                              |       |
| 130  | RS  | 1 ELEV 160 0                                |       |
| 131  | SS  | 171.74 500 2.8 1.5                          |       |
| 132  | ST  | 171.83 500 2.8 1.5                          |       |
| 133  | SW  | 500 500 500 500 500 500                     |       |
|      | 511 | 212 210 300 300 300                         |       |

| LINE ID123456785  134 SE 171.91 172 172.08 172.17 172.26 172.35  135 SV 0 60 946.5 4419  136 SE 160 165 170 175  137 KK 4AROUT  138 KM Route hydrograph TO DOWNSTREAM CANAL  139 RD  140 RC .06 .06 .06 11300 .003 165  141 RX 0 2500 3000 3500 4000 5000 6000 7650  142 RY 155 155 155 150 150 155 155 155 | 910 |
|---|-----|
| 135 SV 0 60 946.5 4419 136 SE 160 165 170 175  137 KK 4AROUT 138 KM Route hydrograph TO DOWNSTREAM CANAL 139 RD 140 RC .06 .06 .06 11300 .003 165 141 RX 0 2500 3000 3500 4000 5000 6000 7650   |     |
| 135 SV 0 60 946.5 4419 136 SE 160 165 170 175  137 KK 4AROUT 138 KM Route hydrograph TO DOWNSTREAM CANAL 139 RD 140 RC .06 .06 .06 11300 .003 165 141 RX 0 2500 3000 3500 4000 5000 6000 7650   |     |
| 136 SE 160 165 170 175  137 KK 4AROUT 138 KM Route hydrograph TO DOWNSTREAM CANAL 139 RD 140 RC .06 .06 .06 11300 .003 165 141 RX 0 2500 3000 3500 4000 5000 6000 7650  |     |
| 137 KK 4AROUT 138 KM Route hydrograph TO DOWNSTREAM CANAL 139 RD 140 RC .06 .06 .06 11300 .003 165 141 RX 0 2500 3000 3500 4000 5000 6000 7650  |     |
| 138 KM Route hydrograph TO DOWNSTREAM CANAL 139 RD 140 RC .06 .06 .06 11300 .003 165 141 RX 0 2500 3000 3500 4000 5000 6000 7650  |     |
| 138 KM Route hydrograph TO DOWNSTREAM CANAL 139 RD 140 RC .06 .06 .06 11300 .003 165 141 RX 0 2500 3000 3500 4000 5000 6000 7650  |     |
| 139 RD<br>140 RC .06 .06 .06 11300 .003 165<br>141 RX 0 2500 3000 3500 4000 5000 6000 7650  |     |
| 140 RC .06 .06 .06 11300 .003 165<br>141 RX 0 2500 3000 3500 4000 5000 6000 7650  |     |
| 141 RX 0 2500 3000 3500 4000 5000 6000 7650   |     |
| 171 181 185 185 185 185 185   |     |
|   |     |
|   |     |
| 143 KK SC-4A1 subwater-shed   |     |
| 144 KM Compute hydrograph for subwater shed SC-4A1  |     |
| 145 BA 7.34   |     |
| 146 LS 2.158 60   |     |
| 147 UD 10.85  |     |
| * **********  |     |
| 148 KK SC4AA1   |     |
| 149 KM Combine two hydrographs  |     |
| 150 HC 2  |     |
| * *********   |     |
| are and an area and area area area area area area area are  |     |
| 151 KK 4A1CAN   |     |
| 152 KM CANAL CROSSING<br>153 RS 1 ELEV 140 0  |     |
|   |     |
|   |     |
|   |     |
| 156 SW 500 500  |     |
| 157 SE 141.33 141.55  |     |
| 158 SV 0 2475   |     |
| 159 SE 140 145  |     |
| •   |     |
| 160 KK 4A1ROU   |     |
| 161 KM Route hydrograph TO DOWNSTREAM CANAL   |     |
| 162 RD  |     |
| 163 RC .06 .06 .06 8000 .003 145  |     |
| 164 RX 0 700 1500 1800 2300 2400 2425 2500  |     |
| 165 RY 130 127.5 126.5 130 135 135 135 135  |     |
| * *******   |     |
| 166 KK SC-4B subwater-shed  |     |
| 167 KM Compute hydrograph for subwater shed SC-4B   |     |
| 168 BA 5.44   |     |
| 169 LS 3.062 60   |     |
| 170 UD 6.6  |     |
| 1.0 uo .00  |     |
| * COMBINE WATERSHEDS SC-4A,4A1,4B   |     |

| LINE | ID.  | 1      | 2 .       | 3         | 4 .          | 5         | 6 .    | 7    | 8    | 9 | .10 |
|------|------|--------|-----------|-----------|--------------|-----------|--------|------|------|---|-----|
| 171  | **** | 004    |           |           |              |           |        |      |      |   |     |
| 171  | KK   | SC4AAB |           |           |              |           |        |      |      |   |     |
| 172  | KM   |        | ne two hy | drograph  | ıs           |           |        |      |      |   |     |
| 173  | HC   | . 2    |           |           |              |           |        |      |      |   |     |
|      | * *  | *****  | ******    | ****      |              |           |        |      |      |   |     |
| 174  | ĸĸ   | 4BCANA |           |           |              |           |        |      |      |   |     |
| 175  | KM   |        | CROSSING  |           |              |           |        |      |      |   |     |
| 176  | RS   | 1      | ELEV      | 110       | 0            |           |        |      |      |   |     |
| 177  | \$S  | 113.48 | 500       | 2.8       | 1.5          |           |        |      |      |   |     |
| 178  | ST   | 113.65 | 500       | 2.8       | 1.5          |           |        |      |      |   |     |
| 179  | SW   | 500    | 500       |           |              | 500       | 500    |      |      |   |     |
| 180  | SE   | 113.82 |           | 500       | 500          | 500       | 500    |      |      |   |     |
| 181  | SV   | 113.02 | 113.99    | 114.15    | 114.32       | 114.49    | 114.66 |      |      |   |     |
| 182  | SE   |        | 473.8     | 2460      |              |           |        |      |      |   |     |
| 102  | 3E   | 110    | 115       | 120       |              |           |        |      |      |   |     |
|      | -    |        |           |           |              |           |        |      |      |   |     |
| 183  | KK   | 4AABRT |           |           |              |           |        |      |      |   |     |
| 184  | KM   |        | hydrogra  | nh mo no  | CONTEMPORA M | CANTAT    |        |      |      |   |     |
| 185  | RD   | ROULE  | nyarogra  | pii 10 bo | MISTREAM     | CANAL     |        |      |      |   |     |
| 186  | RC   | .06    | .06       | . 06      | 10800        | .0018     | 105    |      |      |   |     |
| 187  | RX   | .00    | 1100      | 2000      | 2600         |           |        | 4000 | F000 |   |     |
| 188  | RY   | 110    | 105       | 100       | 2800         | 3000      | 3500   | 4000 | 5000 |   |     |
| 100  | * *  | ****** | *****     | ****      | 98           | 100       | 105    | 105  | 105  |   |     |
|      |      |        |           |           |              |           |        |      |      |   |     |
| 189  | кк   | SC-4B1 | subwater  | -shed     |              |           |        |      |      |   |     |
| 190  | KM   |        | e hydrog  |           | Subwate      | r shed S  | C-481  |      |      |   |     |
| 191  | BA   | 6.07   |           | - upi     | Durwaco      | z biica b | CADI   |      |      |   |     |
| 192  | LS   | 2.451  | 60        |           |              |           |        |      |      |   |     |
| 193  | מט   | 12.2   | 00        |           |              |           |        |      |      |   |     |
|      | * *  |        | ******    | ****      |              |           |        |      |      |   |     |
|      |      |        |           |           |              |           |        |      |      |   |     |
| 194  | KK   | SC-4   |           |           |              |           |        |      |      |   |     |
| 195  | KM   | Combin | e two hy  | drograph  | s            |           |        |      |      |   |     |
| 196  | HC   | 2      |           |           | -            |           |        |      |      |   |     |
|      | * *: | ****** | *****     | ****      |              |           |        |      |      |   |     |
|      |      |        |           |           |              |           |        |      |      |   |     |
| 197  | KK   | 4C2    |           |           |              |           |        |      |      |   |     |
| 198  | KM   | Combin | e three 1 | hydrogra  | phs at ne    | ode 4     |        |      |      |   |     |
| 199  | HC   | 3      |           |           | =            |           |        |      |      |   |     |
|      | * *: | ****** | ******    | ****      |              |           |        |      |      |   |     |
|      |      |        |           |           |              |           |        |      |      |   |     |
| 200  | KK   | 5R     |           |           |              |           |        |      |      |   |     |
| 201  | KM   | Route  | hydrograp | oh from i | node 4 to    | node 5    |        |      |      |   |     |
| 202  | RS   | 1      | STOR      | -1        |              |           |        |      |      |   |     |
| 203  | VZ   | 0      | 204       | 838       | 1406         | 3840      | 6496   |      |      |   |     |
| 204  | SQ   | 0      | 1110      | 2220      | 2775         | 4440      | 6940   |      |      |   |     |
|      | *    |        |           |           |              |           |        |      |      |   |     |
|      | *    | 0.08   | 0.03      | 0.08      | 12800 0.     | 0002      | 106    |      |      |   |     |
|      | *    | 1000   | 1101 11   |           |              |           |        | 78.9 | 3000 |   |     |
|      | *    | 87.1   | 82        | 78        | 70           | 70        | 78     | 86   | 86.5 |   |     |
|      |      |        |           |           |              |           |        |      | -    |   |     |

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| LINE | ID.     | 1234567891  | 0. |
|------|---------|---|----|
| 205  | KK      | SC-3 SUB-WATER SHED                                   |    |
| 206  | KM      | Compute hydrograph for subwater shed SC-3             |    |
| 207  | BA      | 56.44   |    |
| 208  | LS      | 2.203 60  |    |
| 209  | סס      | 62.9  |    |
|      |         | **********  |    |
| 210  | ĸĸ      | 5C  |    |
| 211  | KM      | Combine two hydrographs at node 5                     |    |
| 212  | HC      | 2   |    |
|      | * *     | *********   |    |
| 213  | KK      | DIV1  |    |
| 214  | KM      | Diversion to Raymondville Drain                       |    |
| 215  | DT      | DIV1  |    |
| 216  | DI      | 0 15 224 511 1120 2355 4175 7265 10250                |    |
| 217  | DQ      | 0 4 60 150 335 775 1475 3420 4650                     |    |
| _    | * *     | ***********   |    |
| 218  | KK      | 6R  |    |
| 219  | KM      | Route hydrograph from node 5 to node 6                |    |
| 220  | RS      | 2 STOR ~1   |    |
| 221  | sv      | 0 428 2369 3646 8785 12983                            |    |
| 222  | SQ      | 0 1315 2630 3290 5260 8220                            |    |
|      | *       | 0 1329 2030 3230 3220                                 |    |
|      | *       | 0.08 0.03 0.08 7200 0.0002 103                        |    |
|      | *       | 1000 1891.2 1926.7 1980.9 2018.3 2105 2201.4 3000     |    |
|      | *       | 82 82 86 70 70 88 86 83                               |    |
|      | * *     | **************  |    |
| 223  | KK      | SC-3B   |    |
| 224  | KM      | Compute hydrograph from sub-water shed SC-3B          |    |
| 225  | BA      | 6.71  |    |
| 226  | LS      | 3.075 60  |    |
| 227  | מט      | 34.4  |    |
|      | * *     | *********   |    |
| 228  | KK      | 6C  |    |
| 229  | KM      | Combine two hydrographs at node 6                     |    |
| 230  | HC      | 2   |    |
|      | * *     | **********  |    |
| 231  | KK      | 7 <b>R</b>  |    |
| 232  | KM      | Route hydrograph from node 6 to node 7                |    |
| 233  | RS      | 1 STOR -1   |    |
| 234  | SV      |   |    |
| 235  |         |   |    |
| 233  | sq<br>* | 0 1345 2690 3360 5380 8400                            |    |
|      | *       | 0.08 0.03 0.08 25200 0.0004 103                       |    |
|      | *       | 1000 1856.6 1869.7 1896.8 1933.8 1960.1 2757.7 2915.9 |    |
|      | *       | 86 86 78 70 70 86 86 88                               |    |

```
LINE
             \texttt{ID}.\dots..1\dots.2\dots..3\dots..4\dots..5\dots..6\dots..7\dots..8\dots..9\dots..10
236
             KK
                   SC~2
237
             KM
                 Compute hydrograph for SC-2
238
             BA
                  11.48
                 5.152
             LS
240
                   56.8
             UD
241
             ĸĸ
                    7C
242
             KM
                  Combine hydrograph at node 7
243
             HС
                   2
244
             KK
                    8R
245
                 Route hydrograph from node 7 to node 8
             KM
246
                         STOR -1
314 1129
             RS
                     2
                     0
                                         1807
247
             sv
                                                4601
                                                        9248
248
             S0
                     O
                          1390
                                2780
                                        3475
                                                5560
                                                        8690
                 0.08 0.03 0.08 26400 0.0003
                                                       103
             * 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1

* 66 66 60 54 54 62 68 72
249
             KK
                  SC-1
250
             KM
                 Compute hydrograph for SC-1
251
             BA
                  7.07
252
             LS
                 1.365
                            60
253
             UD
                  38.7
254
             KK
                   8C1
                Combine hydrograph at node 8
255
             KM
             * Start calculating hydrograph for the sub water sheds
             * that drain to the South Main drain.
257
             KK
258
             KM
                 Compute hydrograph for subwater shed SC-8
259
             BA
                  19.99
260
             LS
                 1.861
                         68.50
261
             UD
             262
             KK
                   1BR
263
                 Route hydrograph to node 1B
             КM
264
             RD
265
             RC
                         0.03
                                 0.08
                                        27200 0.0003
                                                        115
                                1973
                                         2003 2010.5 2029.5 2075.5
                   1000 1695.7
256
             RХ
                                                                       3000
                         110
                                         90
                                                90
                                                       100
                                                              108
                                                                       107
```

| LINE  | ID.      | 2                    | . 3 4      | 5         | 6 .     | 7 .    | 8.     | 9 10 |
|-------|----------|----------------------|------------|-----------|---------|--------|--------|------|
|       |          |                      |            |           |         |        |        |      |
| 268   | KK       | SM-18                |            |           |         |        |        |      |
| 269   | KM       | Compute hydrograph   | for sub-wa | ter shed  | SM-18   |        |        |      |
| 270   | BA       | 27.11                | LOL JUD WA | CCL Siled | DI1 -10 |        |        |      |
| 271   | LS       | 4.165 66.14          |            |           |         |        |        |      |
| 272   | UD<br>UD | 55.8                 |            |           |         |        |        |      |
| - / 5 |          | ******               |            |           |         |        |        |      |
| 273   | */*      | 1.001                |            |           |         |        |        |      |
| 274   | KK       | 1BC1                 |            | 1- 10     |         |        |        |      |
|       | KM       | Combine two hydrogra | apns at no | de 18     |         |        |        |      |
| 275   | HC       | 2<br>********        |            |           |         |        |        |      |
| 275   |          | m 5                  |            |           |         |        |        |      |
| 276   | KK       | SM-17                |            |           |         |        |        |      |
| 277   | KM       | Compute hydrograph : | for sub-wa | ter shed  | SM-17   |        |        |      |
| 278   | BA       | 7.03                 |            |           |         |        |        |      |
| 279   | LS       | 0.834 70.51          |            |           |         |        |        |      |
| 280   | סט •     | 36.3                 |            |           |         |        |        |      |
|       | * *:     | **************       |            |           |         |        |        |      |
| 281   | KK       | 1BC2                 |            |           |         |        |        |      |
| 282   | KM       | Combine two hydrogra | aphs at no | de 1B     |         |        |        |      |
| 283   | HС       | 2                    | -          |           |         |        |        |      |
|       | * **     | ********             |            |           |         |        |        |      |
|       |          |                      |            |           |         |        |        |      |
| 284   | KK       | 2BR                  |            |           |         |        |        |      |
| 285   | KM       | Route hydrograph fro | om node 1B | to 2B     |         |        |        |      |
| 286   | RD       |                      |            |           |         |        |        |      |
| 287   | RC       | 0.08 0.03 0.0        | 08 14400   | 0.0007    | 103     |        |        |      |
| 288   | RX.      | 1000 1335.2 13       | 43 1354.8  | 1398.6    | 1411.9  | 1420.9 | 2375.6 |      |
| 289   | RY       | 91 91                | 88 82      |           | 88      | 92     | 92     |      |
|       | * *1     | **********           |            |           |         |        |        |      |
| 290   | KK       | SM-16                |            |           |         |        |        |      |
| 291   | KM       | Compute hydrograph : | for SM-16  |           |         |        |        |      |
| 292   | BA       | 25.18                |            |           |         |        |        |      |
| 293   | LS       | 2.689 60             |            |           |         |        |        |      |
| 294   | UD       | 61.6                 |            |           |         |        |        |      |
|       | * *:     | ***********          |            |           |         |        |        |      |
| 295   | KK       | 2BC                  |            |           |         |        |        |      |
| 296   | KM       | Combine hydrograph a | at node 2B |           |         |        |        |      |
| 297   | HC       | 2                    |            |           |         |        |        |      |
|       | * *1     | ******               |            |           |         |        |        |      |
|       |          |                      |            |           |         |        |        |      |
| 298   | KK       | 3BR                  |            |           |         |        |        |      |
| 299   | KM       | Route hydrograph fro | om node 2B | to node   | 3B      |        |        |      |
| 300   | RD       |                      |            |           |         |        |        |      |
| 301   | RC       | 0.08 0.03 0.0        |            |           | 103     |        |        |      |
| 302   | RX       | 1000 1760.1 1781.    |            | 1883.8    | 1920.1  | 1946.7 | 2799.8 |      |
| 303   | RY       |                      | 12 72      | 84        | 92      | 82     | 82.4   |      |
|       | * *;     | *************        |            |           |         |        |        |      |

| LINE | ID.   | 1 .     | 2          | 3        | 4       | 5       | <i></i> 6 . | 7    | 8       | 9 | 10 |
|------|-------|---------|------------|----------|---------|---------|-------------|------|---------|---|----|
|      |       |         |            |          |         |         |             |      |         |   |    |
| 304  | KK    | SM-15   | SUB-WATI   | ER SHED  |         |         |             |      |         |   |    |
| 305  | KM    |         | e hydro    |          | r SM-15 |         |             |      |         |   |    |
| 306  | BA    | 11.1    | •          | ,        |         |         |             |      |         |   |    |
| 307  | LS    | 1.378   | 60         |          |         |         |             |      |         |   |    |
| 308  | מט    | 40.6    | 30         |          |         |         |             |      |         |   |    |
| 300  |       |         | *****      |          |         |         |             |      |         |   |    |
|      |       |         |            |          |         |         |             |      |         |   |    |
| 309  | KK    | 3BC     |            |          |         |         |             |      |         |   |    |
| 310  | KM    |         | e hydrog   | rraph at | node 3B |         |             |      |         |   |    |
| 311  | HC    | 2       | ,:         | ,-up uo  |         |         |             |      |         |   |    |
|      |       |         | *****      | ****     |         |         |             |      |         |   |    |
|      |       |         |            |          |         |         |             |      |         |   |    |
| 312  | KK    | 4BR     |            |          |         |         |             |      |         |   |    |
| 313  | KM    | Route   | hydrogra   | mb from  | node 3B | to 4B   |             |      |         |   |    |
| 314  | RD    |         |            | _        |         |         |             |      |         |   |    |
| 315  | RC    | 0.08    | 0.03       | 0.08     | 10400   | 0.0003  | 103         |      |         |   |    |
| 316  | RX    | 1000    | 1962.3     | 1989.1   | 2026.6  | 2053.7  | 2129        | 2176 | 3000    |   |    |
| 317  | RY    | 72.7    | 76         | 60       | 60      | 74      | 86          | 74   | 75.6    |   |    |
|      | * *:  | ******  | *****      | ****     |         |         |             | **   | , , , , |   |    |
|      |       |         |            |          |         |         |             |      |         |   |    |
| 318  | KK    | SM-14   | SUB-WATE   | R SHED   |         |         |             |      |         |   |    |
| 319  | KM    | Comput  | e hydrog   | raph for | SM-14   |         |             |      |         |   |    |
| 320  | BA    | 21.6    |            | •        |         |         |             |      |         |   |    |
| 321  | LS    | 1.666   | 60         |          |         |         |             |      |         |   |    |
| 322  | UD    | 69.1    |            |          |         |         |             |      |         |   |    |
|      | * *:  | *****   | *****      | ****     |         |         |             |      |         |   |    |
|      |       |         |            |          |         |         |             |      |         |   |    |
| 323  | KK    | 4BC     |            |          |         |         |             |      |         |   |    |
| 324  | KM    |         | e hydrog   | raph at  | node 4B |         |             |      |         |   |    |
| 325  | HC    | 2       |            |          |         |         |             |      |         |   |    |
|      | * *1  | *****   | ******     | ****     |         |         |             |      |         |   |    |
| 300  | ****  | 000     |            |          |         |         |             |      |         |   |    |
| 326  | KK    | 8BR     |            |          |         |         | _           |      |         |   |    |
| 327  | KM    | Route . | hydrogra   | ph trom  | node 4B | to node | 9           |      |         |   |    |
| 328  | RD    |         |            |          |         |         |             |      |         |   |    |
| 329  | RC    | 0.08    | 0.03       | 0.08     | 16000   | 0.0007  | 103         |      |         |   |    |
| 330  | RX    | 1000    | 1885.8     | 1978.6   | 2036.9  | 2065.1  | 2149.5      | 2205 | 3000    | ~ |    |
| 331  | RY    | 76      | 76         | 54       | 54      | 68      | 82          | 70   | 72      |   |    |
|      | * * * | ******  | *****      | ****     |         |         |             |      |         |   |    |
| 222  | ****  | avr 13  |            |          |         |         |             |      |         |   |    |
| 332  | KK    | SM-13   |            |          | 13      |         |             |      |         |   |    |
| 333  | KM    |         | e hydrog   | raph for | SM-13   |         |             |      |         |   |    |
| 334  | BA    | 22.25   | <b>~</b> ^ |          |         |         |             |      |         |   |    |
| 335  | LS    | 4.220   | 60         |          |         |         |             |      |         |   |    |
| 336  | סט    | 74.5    | *****      |          |         |         |             |      |         |   |    |
|      | * **  |         |            |          |         |         |             |      |         |   |    |
| 337  | KK    | 8C2     |            |          |         |         |             |      |         |   |    |
| 338  | KM    |         | e hydrog   | ranh at  | nođe o  |         |             |      |         |   |    |
| 339  | HC    | 2       | e Hydrod   | ւգիո գք  | noue 3  |         |             |      |         |   |    |
| 333  | II.   |         |            |          |         |         |             |      |         |   |    |

| LINE  | ID.       | 12345678910  |
|-------|-----------|--|
| 340   | ĸĸ        | 8c3  |
| 341   | KM        | Combine hydrographs from North-West and South drain          |
| 342   | HC        | 2  |
|       | * *       | **********   |
| 343   | KK        | 9R   |
| 344   | KM        | Route hydrograph to the PANCHITA STRUCTURE                   |
| 345   | RD        |  |
| 346   | RC        | 0.08 0.03 0.08 46724 0.0004 103                              |
| 347   | RX        | 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1        |
| 348   | RY<br>* * | 66 66 60 54 54 62 68 72 ************************************ |
| 349   | KK        | 29S SUB-WATER SHED   |
| 350   | KM        | Compute hydrograph for 29S                                   |
| 351   | BA        | 12.28  |
| 352   | LS        | 3.021 60   |
| 353   | UD        | 25.9   |
|       | * *       | **********   |
| 354   | кк        | Com9A  |
| 355   | KM        | ,  |
| 356   | HC        | Combine two hydrographs at Node 9 2                          |
| 330   | * *       |  |
|       |           |  |
| 357   | KK        | 28S SUB-WATER SHED   |
| 358   | KM        | Compute hydrograph for 28S                                   |
| 359   | BA        | 25.91  |
| 360   | LS        | 2.866 60   |
| 361   | UD        | 38.6   |
|       | * *       | *********  |
| 362   | KK        | Com9B  |
| 363   | · KM      | Combine two hydrographs at Node 9                            |
| 364   | HC        | 2  |
|       | * *:      | *********  |
| 365   | KK        | Rt10   |
| 366   | KM        | Route hydrograph to Node 10                                  |
| 367   | RS        | 1 STOR -1  |
| 368   | SV        | 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51              |
| 369   | SQ        | 0 1000 2000 4000 6000 8000 10000                             |
|       | * **      | ***********  |
| 370   | KK        | DIV2   |
| 371   | KM        | TO WATERSHED SOUTH OF NORTH MAIN                             |
| 372   | DT        | DIV2   |
| 373   | DI        | 0 7000 65000   |
| 374   | DO        | 0 2000 2000  |
| - · · | 24        |  |

```
LINE
             ID.....1....2.....3.....4.....5.....6......7.....8......9.....10
375
                   27S SUB-WATER SHED
             KK
376
             KM
                  Compute hydrograph for 27S
377
             BA
                  12.15
378
             LS
                 2.977
                         61.92
             שט
                  14.7
380
             KK Com10A
             KM
                Combine two hydrographs at Node 10
382
383
                  26S SUB-WATER SHED
384
                  Compute hydrograph for 26S
385
                  10.55
386
                 2.974
                         62.54
             UD 13.6
387
388
             KK
                   24S SUB-WATER SHED
389
                 Compute hydrograph for 24S
             KM
390
             BA
                  3.83
391
                  2.940
             LS
                         62.11
392
             UD
             393
             KK Com10B
                Combine three hydrographs at Node 10
             KM
395
396
             KK
                  Rt11
                 Route hydrograph to Node 11
397
             KM
             RS 1 STOR -1

SV 0 249.3 385.44 1661.56 3718.66 5233.82 6730.05

SQ 0 1000 2000 4000 6000 8000 10000
398
399
400
401
             KK
                   22S SUB-WATER SHED
402
             KM
                 Compute hydrograph for 22S
403
             BA
                  7.55
404
                 3.000
             LS
                         62.90
405
             UD
             406
             KK ComllA
407
             KM Combine two hydrographs at Node 11
             HC 2
```

| LINE | ID  | 12345678910                                  |
|------|-----|--|
| 409  | KK  | 20S SUB-WATER SHED                           |
| 410  | KM  |  |
| 411  | BA  |  |
| 412  | LS  | 2.847 60                                     |
| 413  | מט  | 24.0   |
|      | * 1 | *********                                    |
| 414  | KK  | Com11B                                       |
| 415  | KM  | Combine two hydrographs at Node 11           |
| 416  | HC  | 2  |
|      | * * | *********                                    |
| 417  | KK  | Rt12   |
| 418  | KM  | Route nydrograph to Node 12                  |
| 419  | RS  | 1 STOR -1                                    |
| 420  | SV  | 0 202.5 312.74 870.9 2706.99 3523.96 4130.87 |
| 421  | SQ  | 0 1000 2000 4000 6000 8000 10000             |
|      | * * | ***********                                  |
| 422  | KK  | 18S SUB-WATER SHED                           |
| 423  | KM  | Compute hydrograph for 18S                   |
| 424  | BA  | 4.69   |
| 425  | LS  | 2.885 60                                     |
| 426  | UD  | 16.5   |
|      | * * | ************                                 |
| 427  | KX  | Com12  |
| 428  | KM  | Combine two hydrographs at Node 12           |
| 429  | HC  | 2  |
|      | * * | **********                                   |
| 430  | KK  | Rt13   |
| 431  | KM  | Route hydrograph to Node 13                  |
| 432  | RS  | 1 STOR -1                                    |
| 433  | sv  | 0 71.07 113.63 427.96 987.6 1443.8 1838.89   |
| 434  | SQ  | 0 1000 2000 4000 6000 8000 10000             |
|      | * * | ************                                 |
| 435  | KK  | 16S SUB-WATER SHED                           |
| 436  | KM  | Compute hydrograph for 16S                   |
| 437  | BA  | 9.60   |
| 438  | LS  | 3.705 60                                     |
| 439  | מש  | 23.5   |
|      | * * | **********                                   |
| 440  | KK  | Com13A                                       |
| 441  | KM  | Combine two hydrographs at Node 13           |
| 442  | HC  | 2  |
|      |     |  |

PAGE 14

```
LINE
              ID.....1....2....3....4....5....6.....7....8....9....10
443
                   15S SUB-WATER SHED
444
                 Compute hydrograph for 15S
              KM
445
              BA
                  25.08
                 3.517
446
              LS
              UD 36.4
447
              UD
448
              KK Com13B
              KM Combine two hydrographs at Node 13
449
450
451
              KK
                   Rt14
                  Route hydrograph to Node 14

1 STOR -1

0 325.09 531.58 2194.95 4313.68 5830.17 7281.01
452
              KM
453
              RS
454
455
               SQ 0 1000 2000 4000 6000 8000 10000
              SQ
456
                   13S SUB-WATER SHED
457
                 Compute hydrograph for 13S
                 19.76
458
              LS 3.807 60
UD 32.6
459
460
461
              KK Coml4A
462
              KM Combine two hydrographs at Node 14
              HC 2
463
              HC
464
              KK
                   14S SUB-WATER SHED
465
              KM
                  Compute hydrograph for 14S
466
              BA
                  9.53
467
              LS
                 3.060
                            60
              UD 22.9
468
469
              KK Com14B
470
              KM Combine two hydrographs at Node 14
471
              HC
              HC 2
472
              KK
                  Rr15
                 Route hydrograph to Node 15
473
              KM
              RS 1 STOR -1
SV 0 208.71 319.05 1791.94 3107.58 4264.72 5131.9
SQ 0 1000 2000 4000 6000 8000 10000
474
475
                                        4000 6000 8000 10000
 476
```

HEC-1 INPUT PAGE 15

```
ID.....1.....2....3.....4.....5.....6.....7....8.....9.....10
LINE
                  11S SUB-WATER SHED
477
            KK
                Compute hydrograph for 11S
478
            KM
479
            BA
                 8.20
480
                2.970
                        61.62
481
            UD 12.2
482
            KK
                Com15
483
             KM
                Combine two hydrographs at Node 15
             НC
                  2
485
            KK
                 Rt16
486
             KM
                Route hydrograph to Node 16
                 1 STOR -1 0 197.28 298.23 1677.59 3541.79 4950.66 5984.55
 487
             RS
             sv
489
             SQ 0 1000 2000 4000 6000 8000 10000
490
             KK
                   7S SUB-WATER SHED
                Compute hydrograph for 7S
491
             KM
 492
             BA
                29.41
 493
             LS
                3.141
                          60
 494
             UD
             UD 38.3
 495
             KK
                 Com16
                 Combine two hydrographs at Node 16
 496
             KM
             HC 2
 497
             HC
 498
             KK
                 Rt17
                Route hydrograph to Node 17
 499
             KM
             RS 1 STOR -1
SV 0 432.95 639.58
SQ 0 1000 2000
 500
                                     954.67 1433.05 2543.25 3518.78
 501
                                     4000 6000 8000 10000
 502
                   6S SUB-WATER SHED
 503
             KK
 504
             KM Compute hydrograph for S6
 505
             ВА
                 9.21
                2.183
             LS
                          60
             UD 12.9
 507
             UD
                Com17
 508
             KK
               Combine two hydrographs at Node 17
 509
             KM
             HC 2
 510
```

```
LINE
             ID.....1.....2.....3.....4.....5.....6......7....8.....9.....10
 511
             KK
                  Rt.18
512
             KM
                 Route hydrograph to Node 18
                  1 STOR -1 0 388.62 558.69 807.92 1617.19 3723.86 4996.12
513
             RS
 514
             sv
             SQ 0 1000 2000
515
                                       4000 6000 8000 10000
516
             KK
                    4S SUB-WATER SHED
             KM Compute hydrograph for 4S
517
518
             BA
                 22.35
             LS 2.408 60
UD 19.6
519
             LS
520
             UD
521
             KK Com18A
522
             KM Combine two hydrographs at Node 18
             523
             KK
                    3S SUB-WATER SHED
524
525
             KM Compute hydrograph for 3S
             BA
                  4.49
526
                 1.153
                            60
527
             LS
528
             UD
                  16.0
529
             KK Com18B
             KM Combine two hydrographs at Node 18
530
531
             HC
                    2
532
                  Rt19
             KK
                 Route hydrograph to
             KM
533
             RS 1 STOR -1

SV 0 130.79 184.8 301.29 542.75 727.63 1178.32

SQ 0 1000 2000 4000 6000 8000 10000
534
535
536
                   2S SUB-WATER SHED
537
             KK
538
             KM Compute hydrograph for S2
539
             BA
                  5.35
                 0.992
                            60
540
             LS
             UD
541
                  10.0
             KK Com19A
542
             KM Combine two hydrographs at Node 19
543
544
             HC
             HC 2
```

| LINE | ID1  |
|------|--|
|      |  |
| 545  | KK 1S SUB-WATER SHED   |
| 546  | KM Compute hydrograph for 1S   |
| 547  | BA 7.47  |
| 548  | LS 1.659 60  |
| 549  | UD 20.4  |
| 343  | * ***********  |
| 550  | a  |
| 550  | KK Com19B  |
| 551  | KM Combine two hydrographs at Node 19  |
| 552  | HC 2   |
|      |  |
|      | <ul> <li>Start calculating hydrograph for the sub water sheds</li> </ul>   |
|      | <ul><li>that drain to the Raymondville drain.</li></ul>  |
|      | * **********************   |
| 553  | KK DIV1  |
| 554  | KM Diversion to Raymondville Drain   |
| 555  | DR DIV1  |
|      | * *********  |
| 556  | KK SC-3A   |
| 557  | KM Compute hydrograph for subwater shed SC-3A  |
| 558  | BA 5.87  |
| 559  | LS 1.917 60  |
| 560  | VID 59   |
|      | * ***********  |
| 561  | кк 20С   |
| 562  | KM Combine two hydrographs at Node 20  |
| 563  | HC 2   |
| 002  | * ********   |
| 564  | KK 21R   |
| 565  | KM Route hydrograph to   |
| 566  | RS 1 STOR -1   |
| 567  | SV 0 64.7 144.55 233.22 852.15 4420.77   |
| 568  | so 0 100 300 500 1000 3000   |
| 200  | 5Q 0 100 300 500 1000 3000 _   |
|      |  |
| 569  | KK 29aR SUB-WATER SHED   |
| 570  | KM Compute hydrograph for 29aR   |
| 571  | BA 4.84  |
| 572  | LS 4.007 60  |
| 573  | UD 21.9  |
| • -  | * *********  |
| 574  | KK Com21A  |
| 575  | KM Combine two hydrographs at Node 21  |
| 576  | HC 2 HOUSE TWO INVESTIGATION ACT NOTES IN THE TOTAL TO |
| 3.0  | nc 2   |
|      |  |

```
ID.....1....2.....3.....4.....5.....6.....7.....8.....9.....10
LINE
577
                   29R SUB-WATER SHED
             KK
                  Compute hydrograph for 29R
578
             KM
579
             BA
                  18.03
                  4.517
                             60
580
             LS
              UD 31.2
581
             UD
582
             KK Com21B
                 Combine two hydrographs at Node 21
583
             KM
584
             HC 2
585
             KK
                    22R
586
              KM
                  Route hydrograph to
               1 STOR -1
7 0 40.43 87.14 124.86 203.76 953.84
9 0 100 300 500 1000 3000
587
             RS
588
              sv
589
              SQ
                  28aR SUB-WATER SHED
590
             KK
                 Compute hydrograph for 28aR
591
             KM
592
             BA
                   2.35
                            60
593
              LS
                 5.536
             UD 12.0
594
595
             \begin{array}{lll} \mbox{KK} & \mbox{Com22} \\ \mbox{KM} & \mbox{Combine two hydrographs at Node 22} \end{array}
596
              HC 2
597
598
             KK
                   Rt23
                  Route hydrograph to Node 23
599
             KM
                   1
600
             KO
                            1
                           STOR
                      1 STOR -1 0 1061.6 3882.31 6218.63 8069.57 10221.7 14071.8 18286.4
 601
              RS
 602
              sν
              SQ 0 1000 2000
                                         3000 4000
                                                        5000 7500 10000
 603
                  24R SUB-WATER SHED
 604
              KK
                  Compute hydrograph for 24R
 605
              KM
 606
              BA
                  22.22
                             60
 607
              LS
                  4.088
 608
              UD
              609
              KK Com23A
              KM Combine two hydrographs at Node 23
 610
              HC 2
 611
```

| LINE        | ID12345678910                                 |
|-------------|---|
| 612         | KK 28R SUB-WATER SHED                         |
| 613         | KM Compute hydrograph for 28R                 |
| 614         | BA 4.68                                       |
|             |   |
| 615         | LS 7.319 60                                   |
| 616         | UD 15.7 * *********************************** |
|             |   |
|             | * Rt24  |
|             | * Route hydrograph to Node 24                 |
|             | * 25000 0.0004 0.1 TRAP 40 2                  |
|             | * *************************************       |
| 617         | KK 25R SUB-WATER SHED                         |
| 618         | KM Compute hydrograph for 25R                 |
|             |   |
| 619         | ва 8.99                                       |
| 620         | LS 4.347 60                                   |
| 621         | UD 22.3                                       |
|             | * ************                                |
| 622         | KK 27R SUB-WATER SHED                         |
| 623         | KM Compute hydrograph for 27R                 |
| 62 <b>4</b> | BA 23.93                                      |
| 625         | LS 3.830 60                                   |
| 626         |   |
| 020         | UD 34.1                                       |
|             |   |
| 627         | KK Com24                                      |
| 628         | KM Combine three hydrographs                  |
| 629         | HC 3  |
|             | * ************                                |
| 620         |   |
| 630         | KK Rt25                                       |
| 631         | KM Route hydrograph to Node 25                |
| 632         | RD 37000 0.0004 0.1 TRAP 40 2                 |
|             | * *************                               |
| (22         | KK 22R SUB-WATER SHED                         |
| 633         |   |
| 634         | KM Compute hydrograph for 22R                 |
| 635         | BA 18.04                                      |
| 636         | LS 2.632 61.9                                 |
| 637         | UD 31.1 * ********************************    |
|             | 4.45  |
| 638         | KK Com25                                      |
| 639         | KM Combine two hydrographs at Node 25         |
| 640         | HC 2  |
|             |   |
| 641         | KK 19R SUB-WATER SHED                         |
| 642         | KM Compute hydrograph for 19R                 |
| 643         | BA 11.18                                      |
| 644         | LS 4.714 60                                   |
| 645         | UD 24.8                                       |
|             |   |

```
\mathtt{ID}.\dots.1\dots.2\dots.3\dots.4\dots.5\dots..6\dots..7\dots..8\dots..9\dots..10
LINE
646
             KK Com23B
             KM Combine three hydrographs at Node 23
647
             HC 3
648
649
             KK
                 Rt26A
                 Route hydrograph to La Sal Viejo diversion
650
             KM
             KO
                           1
651
                    1
                         STOR
652
             RS
                    1
                        31.13
                               45.65
                                      55.71 440.39 728.35 1179.82 1531.01
             sv
                    0
653
              7 0 31.13 45.65
2 0 1000 2000
                                      3000
                                            4000
                                                    5000 7500 10000
             SQ
654
             KK
                  DIV3
655
                 Diversion to La Sal Viejo
656
             KM
657
                 DIV3
             DQ 0 5 114
DQ 0 0 33
                                        397
                                                     2280
                                                            3859
                                              1231
                                        210
                                               712
                                                     1218
                                                            1792
660
             KK
                 Rt26B
                 Route hydrograph to Node 26
661
             KM
                           1
 662
             KO
                  1
                         STOR
             RS
                    1
 663
                     0 196.89 297.78 546.45 982.63 1367.28 2212.32 2871.48
             sv
 664
                        1000
                              2000
                                      3000 4000 5000 7500 10000
                     0
 665
             SQ
 666
             KK
                 20R SUB-WATER SHED
                 Compute hydrograph for 20R
 667
             KM
                 18.78
 668
             BA
                2.990
                        62.13
 669
             UD 20.6
 670
 671
             KK
                Com26
 672
             KM
                Combine two hydrographs
 673
             HC 2
             * DIV4
             * Diversion to southern tributary of main Raymondville channel
                DIV4
                0
                       8000 10000
             * 0 50 50
 674
                 Rt27A
             KK
                 Route hydrograph to Node 27
 675
             KM
 676
             KO
                                  -1
                     0 1348.58 4980.12 8035.27 10783.8 14313.8 21699.7 25397.7
               0 1000 2000 3000 4000 5000 7500 10000
```

```
LINE
              ID......1.....2......3......4.....5......6......7......8......9.....10
680
                   13R SUB-WATER SHED
              KK
681
              ĸм
                  Compute hydrograph for 13R
682
              BA
                  11.50
683
                  3.032
              LS
                             60
684
              tΠ
                   16.3
685
              KK Com27A
686
              KM
                 Combine two hydrographs at Node 27
687
              HC
              HC 2
              * DIV4
              * Diversion from main Raymondville channel
              * ***
688
                  14R SUB-WATER SHED
689
              KM
                  Compute hydrograph for 14R
690
              BA
                   9.24
691
              LS
                  3.521
                          64.37
692
              UD 22.6
                 Com
                Combine two hydrographs
693
                  Rt27B
                  Route hydrograph to Node 27
694
              KM
                   1
695
696
             RS
                           STOR
                                    -1
               7 0 118.49 170.85 226.03 273.73 485.95 500.0
2 0 48.6 83.88 129.49 173.38 228.78 20000.0
697
              sv
698
             SQ
699
             KK Com27B
700
             KM
                 Combine two hydrographs at Node 27
701
             HC 2
702
             ĸĸ
                   R+28
703
             KM
                  Route hydrograph to Node 28
704
             KO
                           1
705
                      1
             RS
                          STOR
                                    -1
               7 0 312.83 999.33 1918.42 2687.59 3301.82 4973.7 6268.16
2 0 1000 2000 3000 4000 5000 7500 10000
706
             sv
707
             SQ
708
                  11R SUB-WATER SHED
709
             KM
                  Compute hydrograph for 11R
710
             BA
                  10.09
711
             LS
                  3.768
                         61.13
712
             UD 11.0
             UD
```

```
ID.....1....2.....3....4....5....6.....7....8......9.....10
LINE
713
             KK Com28A
                Combine two hydrographs at Node 28
             HC 2
                 8R SUB-WATER SHED
716
             KK
                Compute hydrograph for 8R
717
             KM
718
             BA
                 11.62
719
             LS
                5.671
                        61.49
             720
             Œ
             KK Com28B
721
                Combine two hydrographs at Node 28
722
             KM
             HC
              2
 723
 724
             KK
             KM
                 Route hydrograph to Node 29
 725
 726
                         STOR
 727
             RS
             SV 0 449.95 1513.48 2080.16 2620.81 3076.31 4216.6 5147.07 SQ 0 1000 2000 3000 4000 5000 7500 10000
                    1
                                  -1
 728
 729
                  10R SUB-WATER SHED
 730
             KK
                 Compute hydrograph for 10R
 731
             KM
 732
             BA
                 21.47
                 2.724
 733
             LS
              D 19.2
             UD
 734
 735
                 Com29
                Combine two hydrographs at Node 29
 736
 737
 738
                  Rt30
                 Route hydrograph to Node 30
 739
             KM
                    1
 740
             КO
                           1
                         STOR
                                  - 1
 741
             RS
                     0 208.42 1163.8 1980.35 2627.06 3136.14 4076.55 4891.57
 742
             SV
                 0 1000 2000
                                      3000 4000 5000 7500 10000
             SQ
 743
                      SUB-WATER SHED
 744
             КK
                 6R
                 Compute hydrograph for 6R
 745
             KM
 746
                 16.37
             BA
             LS 3.175 60
UD 28.0
 747
             LS
 748
```

```
ID.....1.....2.....3.....4.....5.....6.....7.....8......9......10
LINE
749
             KK Com30A
 750
             KM
                 Combine two hydrographs at Node 30
751
             HC
               C 2
*********
752
             KK
                   4R SUB-WATER SHED
753
             KM
                 Compute hydrograph for 4R
                  4.73
             BA
 755
             LS
                 2.992
                            60
             UD 15.9
             UD
757
             KK Com30B
758
             KM Combine two hydrographs at Node 30
             HC 2
759
760
             KK
                  Rt31
761
             KM
                 Route hydrograph to Node 31
762
             RS 1 STOR -1
SV 0 555.09 2027.13 2913.81 3589.64 4070.74 5120.11 6031.24
SQ 0 1000 2000 3000 4000 5000 7500 10000
             KO
                   1
1
763
764
765
766
                  2R SUB-WATER SHED
767
             ΚM
                 Compute hydrograph for 2R
768
             BA
                  5.58
769
                 1.806
                            60
770
             UD
                  11.4
771
             KK Com31A
772
             KM
                 Combine two hydrographs at Node 31
773
                 2
             HC
774
                  3R SUB-WATER SHED
775
                 Compute hydrograph for 3R
             KM
             BA
                  4.47
                 2.472
13.8
777
             LS
778
             UD
             * *************
779
             KK Com31B
780
             KM Combine two hydrographs at Node 31
781
             HC 2
```

.

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| LINE | ID.   | 12345678910  |
|------|-------|--|
|      |       |  |
| 782  | KK    | Rt32   |
| 783  | KM    | Route hydrograph to Node 32                              |
| 784  | KO    | 1 1  |
| 785  | RS    | 1 STOR -1  |
| 786  | sv    | 0 1067.13 3337.1 4908.7 6270.41 7335.83 9532.02 11388.6  |
| 787  | SO    | 0 1000 2000 3000 4000 5000 7500 10000                    |
|      |       | ******   |
| 700  |       | 19 (77) 11 27)   |
| 788  | KK    | 1R SUB-WATER SHED  |
| 789  | KM    | Compute hydrograph for 1R                                |
| 790  | BA    | 16.89  |
| 791  | LS    | 1.395 60   |
| 792  | an an | 19.6   |
|      | 2 *   | ~ 4 · ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~                  |
| 793  | KK    | Com32  |
| 794  | KM    | Combine two hydrographs at Node 32                       |
| 795  | HC    | 2  |
|      | * *   | *********  |
| 796  | KK    | DIV3   |
| 797  | KM    | Diversion from Raymondville main channel to La Sal Viejo |
| 798  | DR    | DIV3   |
| ,,,, |       | *********  |
|      |       |  |
| 799  | KK    | 17R SUB-WATER SHED                                       |
| 800  | KM    | Compute hydrograph for 17R                               |
| 801  | BA    | 6 . 47   |
| 802  | LS    | 2.955 60   |
| 803  | UD    | 19.1   |
|      | * *   | *******  |
| 804  | ĸĸ    | Com33A   |
| 805  | KM    | Combine two hydrographs at La Sal Viejo                  |
| 806  | HC    | 2  |
| 000  |       | *******  |
|      |       |  |
| 807  | KX    | 23R SUB-WATER SHED                                       |
| 808  | KM    | Compute hydrograph for 23R                               |
| 809  | BA    | 94.54  |
| 810  | LS    | 2.901 60   |
| 811  | UD    | 68.9   |
|      | * *-  | **********   |
| 812  | KK    | Com33B   |
| 813  | км    | Combine two hydrographs at La Sal Viejo                  |
| 814  | HС    | 2 and injure graphic at the first training               |
|      |       | *********  |

```
1
```

## SCHEMATIC DIAGRAM OF STREAM NETWORK

|               | SCHEMATIC DIAGRAM OF STREAM NETWORK   |                                       |
|---------------|---------------------------------------|---------------------------------------|
| INPUT<br>LINE | (V) ROUTING                           | (>) DIVERSION OR PUMP PLOW            |
| NO.           | (.) CONNECTOR                         | (<) RETURN OF DIVERTED OR PUMPED FLOW |
| 5             | SC-7A<br>V                            |                                       |
| 11            | V<br>1R                               |                                       |
| 17            | . SC-7B                               |                                       |
| 22            | 1C<br>V                               |                                       |
| 25            | V<br>2R                               |                                       |
| 31            | SC-7C                                 |                                       |
| 36            |                                       | SC-6A                                 |
| 41            | 2C<br>V                               |                                       |
| 44            | V<br>3R                               |                                       |
| 50            | . SC-6B                               |                                       |
| 55            |                                       | SC-7D<br>V                            |
| 60            |                                       | V<br>3R                               |
| 66            | 3C<br>V                               | ·<br>······                           |
| 69            | V<br>4R                               |                                       |
| 74            | . SC5A                                |                                       |
| 79            | . V<br>. SACANA<br>. V                |                                       |
| 88            | . V<br>. SAROUT<br>                   |                                       |
| 94            |                                       | SC5A1                                 |
| 99            |                                       |                                       |
| 102           | . 5A1CAN<br>. V                       |                                       |
| 109           | . V<br>. 5A1RT<br>                    |                                       |
| 115           |                                       | SC5B                                  |
| 120           | 4C1.                                  |                                       |
| 123           |                                       | SC-4A<br>V                            |
| 128           | · · · · · · · · · · · · · · · · · · · | V<br>4ACANA<br>V                      |

| HEC-1 INPUT PA |         |         |            |         |        |       |       |              |      | PAGE 25 |
|----------------|---------|---------|------------|---------|--------|-------|-------|--------------|------|---------|
| LINE           | ID.     | 1.      | 2          | 3       | 4      | 5 .   | 6     | 7            | 8910 |         |
| 815            | KK      | LSV     |            |         |        |       |       |              |      |         |
| 816            | KM      | Route 1 | nydrograph | through | La Sal | Viejo |       |              |      |         |
| 817            | KÖ      | 1       | 1          |         |        |       |       |              |      |         |
| 818            | RS      | 1       | STOR       | -1      |        |       |       |              |      |         |
| 819            | sv      | 0       | 1690       | 4532    | 9730   | 17040 | 18480 | 19000        |      |         |
| 820            | sQ<br>* | 0       | 163        | 465     | 825    | 1230  | 1490  | 155 <b>0</b> |      |         |
| 821            | 22      |         |            |         |        |       |       |              |      |         |

|            | :         |         | V<br>4AROUT |        |
|------------|-----------|---------|-------------|--------|
|            |           |         |             |        |
| 143        |           |         |             | SC-4A1 |
|            |           | ٠       | ,           |        |
| 148        |           | :       | SC4AA1      |        |
|            | •         | •       | V           |        |
| 151        | ·         |         | V<br>4A1CAN |        |
|            |           | •       | V           |        |
| 160        |           |         | 4A1ROU      |        |
|            |           | •       |             |        |
| 166        |           |         | :           | SC-4B  |
|            | <i>.</i>  |         |             |        |
| 171        |           |         | SC4AAB      |        |
|            | •         |         | v<br>v      |        |
| 174        | •         |         | 4BCANA      |        |
|            | •         |         | v<br>v      |        |
| 183        |           |         | 4AABRT      |        |
|            | :         |         |             |        |
| 189        |           |         |             | SC-4B1 |
|            |           |         |             |        |
| 194        |           |         | SC-4        |        |
|            |           |         |             |        |
| 197        | 4C2       |         |             |        |
|            | v         |         |             |        |
| 200        | 5R        |         |             |        |
|            |           |         |             |        |
|            |           | C-3     |             |        |
|            |           | •       |             |        |
| 210        | 5C        | • • •   |             |        |
|            | •         |         |             |        |
| 215<br>213 | ><br>DIV1 | DIV1    |             |        |
|            | V         |         |             |        |
| 218        | V<br>6R   |         |             |        |
|            |           |         |             |        |
| 223        | . SC.     | -3B     |             |        |
|            | . 50      |         |             |        |
| 228        | 6C        | •       |             |        |
|            | V         | • •     |             |        |
| 231        | V<br>7R   |         |             |        |
|            |           |         |             |        |
| 236        | . sc      | :-2     |             |        |
|            |           |         |             |        |
| 241        | 7C        |         |             |        |
|            | v         |         |             |        |
| 244        | V<br>8R   |         |             |        |
|            |           |         |             |        |
| 249        | . sc      | -1      |             |        |
|            |           |         |             |        |
| 254        | 8C1       |         |             |        |
|            | •         | -       |             |        |
| 257        | . SC      | -8      |             |        |
|            |           | V       |             |        |
| ۷۰2        | . 11      | V<br>BR |             |        |
|            |           | •       |             |        |

| 268        |        |          | SM-18   |
|------------|--------|----------|---------|
|            | •      |          |         |
| 273        |        | 1BC1     |         |
|            | •      | •        |         |
| 276        |        | :        | SM-17   |
|            |        |          |         |
| 281        | •      | 1BC2     |         |
| 201        | :      | ٧        |         |
| 224        |        | V<br>200 |         |
| 284        | :      | 2BR      |         |
|            |        |          |         |
| 290        | •      | •        | SM-16   |
|            |        |          |         |
| 295        | •      | 2BC      |         |
|            |        | V<br>V   |         |
| 298        |        | 3BR      |         |
|            | •      |          |         |
| 304        |        | :        | SM-15   |
|            | •      | •        |         |
| 309        | •      | 3BC      | <i></i> |
| 302        |        | V        |         |
| 74.0       |        | V<br>ADD |         |
| 312        | •      | 4BR      |         |
|            |        |          |         |
| 318        |        |          | SM-14   |
|            |        |          | :       |
| 323        |        | 4BC      |         |
|            |        | Ā        |         |
| 326        |        | V<br>SBR |         |
|            |        |          |         |
| 222        |        |          | SM-13   |
| 332        |        |          |         |
|            |        |          |         |
| 337        | •      | 8C2      |         |
|            | •      |          |         |
| 340        | 8C3    |          |         |
|            | V<br>V |          |         |
| 343        | 9R     |          |         |
|            |        |          |         |
| 349        |        | 29S      |         |
| 232        |        |          |         |
| 254        |        |          |         |
| 354        | Com9A  |          |         |
|            |        |          |         |
| 357        |        | 285      |         |
|            |        |          |         |
| 362        | Com9B  |          |         |
|            | v<br>v |          |         |
| 365        | Rt10   |          |         |
|            | •      |          |         |
| 277        | * _    | > D1     | rv2     |
| 372<br>370 | DIAS   |          |         |
|            |        |          |         |
| 275        | •      | 27S      |         |
| 375        |        |          |         |
|            |        |          |         |
| 380        | Com10A |          |         |

| י    |           | 26S   |
|------|-----------|-------|
|      | •         |       |
| 388  | :         | . 245 |
|      |           |       |
| 393  | Com10B.   |       |
|      | V         |       |
| 396  | Rt11      |       |
|      |           |       |
| 401  | :         | 228   |
|      |           | •     |
| 406  | Coml1A.   |       |
|      |           |       |
| 409  | :         | 205   |
|      |           | •     |
| 414  | ComliB.   |       |
|      | v<br>v    |       |
| 417  |           |       |
|      |           |       |
| 422  | :         | 18S   |
|      |           |       |
| 427  | Com12.    |       |
|      | v<br>v    |       |
| 430  | Rt13      |       |
|      | :         |       |
| 435  |           | 16S   |
|      |           |       |
|      |           |       |
|      |           |       |
| 443  |           | 15S   |
|      |           |       |
| 448  | Com13B.   |       |
|      | v         |       |
| 451  | Rt14      |       |
|      | :         |       |
| 456  | -         | 135   |
|      |           |       |
| 461  | Com14A.   |       |
|      |           |       |
| 464  |           | 145   |
| 460  | Co=14B    |       |
| 469  | V V       |       |
| 472  | V<br>Rt15 |       |
| 412  | KCI5      |       |
| 477  |           | 115   |
| 4,,, | :         |       |
| 482  | Com15.    |       |
|      | v         |       |
| 485  | V<br>Rt16 |       |
|      | ,         |       |
| 490  |           | 7\$   |
|      |           |       |
|      | Com16.    |       |
|      | v         |       |

| 498        | Rt17        |                                       |       |
|------------|-------------|---------------------------------------|-------|
| 503        | :           | 6S                                    |       |
| 508        | Com17.      | · · · · · · · · · · · · · · · · · · · |       |
| 511        | V<br>Rt18   |                                       |       |
| 516        |             | <b>4</b> s                            |       |
| 521        | Com18A.     |                                       |       |
| 524        | •           | 3s                                    |       |
| 529        | V           |                                       |       |
| 532        | V<br>Rt19   |                                       |       |
| 537        | :           | 28                                    |       |
| 542        | Com19A      |                                       |       |
| 545        |             | 1s                                    |       |
| 550        | Com19B      |                                       |       |
| 555<br>553 | ·<br>·      | .<<br>DIV1                            | DIV1  |
| 556        | ·<br>·      | •                                     | SC-3A |
| 561        | :           | V                                     |       |
| 564        | •           | V<br>21R                              |       |
| 569        | :           | •                                     | 29aR  |
| 574        | :           | Com21A                                |       |
| 577        | :           |                                       | 29R   |
| 582        | :           | Com21B<br>V<br>V                      | ••••• |
| 585        |             | 22R                                   |       |
| 590        | ·<br>·      |                                       | 28aR  |
| 595<br>598 | ·<br>-<br>· | Com22<br>V<br>V                       |       |
| 598<br>604 | ·<br>·      | Rt23<br>-                             | 245   |
| 609        | •           |                                       | 24R   |
| 003        |             | Com23A                                |       |

| •          | :      |                  | 28R            |                         |   |
|------------|--------|------------------|----------------|-------------------------|---|
| 617        |        | :                |                | 25R                     |   |
| 622        | :      | :                | •              |                         | . 27R                                   |
| 627        |        | :                |                |                         | •                                       |
| 630        |        | :                | V<br>V<br>Rt25 |                         | • |
|            | :      | :                |                |                         |   |
| 633        | :      | •                | :              | 22R                     |   |
| 638        | :      | :                | Com25.         | • • • • • • • • • • • • |   |
| 641        |        | :                | :              | 19R                     |   |
| 646        | :      | v                |                |                         |   |
| 649        |        | V<br>Rt26A       |                |                         |   |
| 657<br>655 |        | DIV3             | נס <           | CV3                     |   |
| 660        | :      | V<br>V<br>Rt26B  |                |                         |   |
|            | :      |                  |                |                         |   |
| <b>666</b> | :      |                  | 20R            |                         |   |
| J/1        | •      | Com26<br>V<br>V  |                |                         |   |
| 674        | :      | Rt27A            |                |                         |   |
| 680        |        | :                | 13R            |                         |   |
| 685        |        |                  |                |                         |   |
| 688        |        | •                | 14R<br>V       |                         |   |
| 693        |        | :                | V<br>Rt27B     |                         |   |
| 699        |        |                  |                |                         |   |
| 702        |        | V<br>V<br>Rt28   |                |                         |   |
| 708        |        | :                | 11R            |                         |   |
| 713        | :      |                  | :              |                         |   |
|            | :      |                  |                |                         |   |
| 716        | ·<br>- | ·<br>·           | 8R             |                         |   |
| 721        | :      | Com28B<br>V<br>V |                |                         |   |
| 724        | :      | Rt29             |                |                         |   |
| 0 د ،      | ÷      | :                | 10R            |                         |   |

|      | • | •       |        |     |      |
|------|---|---------|--------|-----|------|
| 735  | - |         | •      | •   |      |
| 733  | - |         |        |     |      |
|      | • | v<br>v  |        |     |      |
| 738  | • | Rt30    |        |     |      |
|      | • | ACJO    |        |     |      |
|      |   | •       |        |     |      |
| 744  |   | •       | 6R     |     |      |
|      |   | -       | OK     |     |      |
|      |   | •       | •      |     |      |
| 749  |   | Сот30А  |        |     |      |
|      |   |         |        |     |      |
|      |   |         |        |     |      |
| 752  |   |         | 4R     |     |      |
|      |   |         | ē      |     |      |
|      |   | •       |        |     |      |
| 757  | • |         |        |     |      |
|      | • | Λ       |        |     |      |
| 760  | • | v       |        |     |      |
| 760  | • | Rt31    |        |     |      |
|      | • | •       |        |     |      |
| 766  | • | •       | an.    |     |      |
| , 00 | • | •       | 2R     |     |      |
|      | • | •       | •      |     |      |
| 771  |   | Com31A. |        |     |      |
|      |   | ,       |        |     |      |
|      |   |         |        |     |      |
| 774  |   |         | 3R     |     |      |
|      |   |         |        |     |      |
|      | • |         |        |     |      |
| 779  |   |         |        |     |      |
|      | - | v       |        |     |      |
| 700  | • | v       |        |     |      |
| 782  | • | Rt32    |        |     |      |
|      | • | •       |        |     |      |
| 788  | • | •       | 1-     |     |      |
| 700  | • | •       | 1R     |     |      |
|      | • | •       | •      |     |      |
| 793  | • | Com32   | •      |     |      |
|      |   |         |        |     |      |
|      |   |         |        |     |      |
| 798  |   |         | .<     |     | DIV3 |
| 796  |   | •       | DIV3   |     |      |
|      |   |         |        |     |      |
|      | • |         |        |     |      |
| 799  | - | •       |        | 17R |      |
|      | • |         |        |     |      |
| 004  | • | •       |        |     |      |
| 804  | - | •       | Com33A |     | •    |
|      | • | •       | •      |     |      |
| 807  | • | •       | •      | 225 |      |
|      |   | •       | •      | 23R |      |
|      |   | -       | •      |     | •    |
| 812  |   |         |        |     | •    |
|      |   |         | v v    |     | •    |
|      |   | •       | v      |     |      |
| 815  |   |         | LSV    |     |      |
|      |   |         |        |     |      |
|      |   |         |        |     |      |

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

|   | OPERATION               | NOITATE    | PEAK<br>FLOW | TIME OF<br>PEAK | AVERAGE F | LOW FOR MAXIM | NUM PERIOD | BASIN<br>AREA | MAXIMUM | TIME OF   |
|---|-------------------------|------------|--------------|-----------------|-----------|---------------|------------|---------------|---------|-----------|
| + | OT EMALI TON            | SIAZION    | LDON         | FEAR            | 6-HOUR    | 24-HOUR       | 72-HOUR    | ACCEM         | STAGE   | MAX STAGE |
| + | HYDROGRAPH AT           | SC-7A      | 13.          | 72.00           | , 13.     | 12.           | 10.        | 18.40         |         |           |
| + | ROUTED TO               | 1R         | 12.          | 81.00           | 12.       | 12.           | 10.        | 18.40         |         |           |
| + | HYDROGRAPH AT           | SC-7B      | 44.          | 37.00           | 44.       | 36.           | 17.        | 9.82          |         |           |
| + | 2 COMBINED AT           | 1 <b>c</b> | 45.          | 38.00           | 44.       | 38.           | 24.        | 28.22         |         |           |
| + | ROUTED TO               | 2R         | 42.          | 46.00           | 42.       | 36.           | 23.        | 28.22         |         |           |
| + | HYDROGRAPH AT           | SC-7C      | 97.          | 44.00           | 97.       | 87.           | 49.        | 23.00         |         |           |
| + | HYDROGRAPH AT           | SC-6A      | 159.         | 67.00           | 159.      | 154.          | 119.       | 41.66         |         |           |
| ٠ | 3 COMBINED AT           | 2C         | 256.         | 53.00           | 255.      | 243.          | 186.       | 92.88         |         |           |
| + | ROUTED TO               | 3R         | 255.         | 55.00           | 254.      | 243.          | 185.       | 92.88         |         | ,         |
| + | HYDROGRAPH AT           | SC-6B      | 271.         | 37.00           | 268.      | 231.          | 116.       | 6.58          |         |           |
| 7 | HYDROGRAPH AT           | SC-7D      | 40.          | 42.00           | 40.       | 35.           | 19.        | 6.15          |         |           |
| + | ROUTED TO               | 3R         | 39.          | 45.00           | 38.       | 34.           | 19.        | 6.15          |         |           |
| + | 3 COMBINED AT           | 30         | 482.         | 44.00           | 478.      | 437.          | 305.       | 105.61        |         | ·         |
| + | ROUTED TO HYDROGRAPH AT | 4R         | 477.         | 46.00           | 473.      | 434.          | 305.       | 105.61        |         |           |
| + | ROUTED TO               | SC5A       | 491.         | 66.00           | 491.      | 476.          | 369.       | 38.43         |         |           |
| ÷ |                         | 5ACANA     | 418.         | 82.00           | 415.      | 374.          | 233.       | 38.43         | 140.85  | 82.00     |
| • | ROUTED TO               | SAROUT     | 417.         | 86.00           | 414.      | 373.          | 230.       | 38.43         |         |           |
| + | HYDROGRAPH AT           | SC5A1      | 329.         | 29.00           | 320.      | 238.          | 98.        | 5.64          |         |           |
| + | 2 COMBINED AT           | 5AA1       | 418.         | 86.00           | 415.      | 373.          | 231.       | 44.07         |         |           |
| ÷ | ROUTED TO               | 5A1CAN     | 340.         | 98.00           | 334.      | 279.          | 171.       | 44.07         | 116.96  | 98.00     |
| + | ROUTED TO               | 5A1RT      | 338.         | 106.00          | 330.      | 273.          | 169.       | 44.07         |         |           |
| + | HYDROGRAPH AT           | SC5B       | 459.         | 27.00           | 445.      | 314.          | 123.       | 9.02          |         |           |
|   | 2 COMBINED AT           | 4C1        | 459.         | 27.00           | 445.      | 314.          | 169.       | 53.09         |         |           |
|   | HYDROGRAPH AT           |            |              |                 |           |               |            |               |         |           |

J

| +             |               | SC~4A  | 557.  | 52.00  | 556.  | 524.  | 350. | 30.73  |        |        |
|---------------|---------------|--------|-------|--------|-------|-------|------|--------|--------|--------|
| +             | ROUTED TO     | 4ACANA | 42.   | 121.00 | 42.   | 39.   | 27.  | 30.73  | 171.84 | 121.00 |
| <b>.</b>      | ROUTED TO     | 4AROUT | 42.   | 126.00 | 42.   | 39.   | 27.  | 30.73  |        |        |
| +             | HYDROGRAPH AT | SC-4A1 | 502.  | 25.00  | 483.  | 311.  | 115. | 7.34   |        |        |
| +             | 2 COMBINED AT | SC4AA1 | 502.  | 25.00  | 483.  | 311.  | 115. | 38.07  |        |        |
| <b>+</b><br>+ | ROUTED TO     | 4A1CAN | 205.  | 35.00  | 179.  | 89.   | 32.  | 38.07  | 141.07 | 35.00  |
| +             | ROUTED TO     | 4A1ROU | 201.  | 38.00  | 175.  | 89.   | 32.  | 38.07  |        |        |
| +             | HYDROGRAPH AT | SC-4B  | 368.  | 21.00  | 340.  | 173.  | 59.  | 5.44   |        |        |
| +             | 2 COMBINED AT | SC4AAB | 368.  | 21.00  | 340.  | 194.  | 91.  | 43.51  |        |        |
| <b>+</b><br>+ | ROUTED TO     | 4BCANA | 196.  | 40.00  | 174.  | 94.   | 35.  | 43.51  | 113.75 | 40.00  |
| +             | ROUTED TO     | 4AABRT | 192.  | 44.00  | 169.  | 93.   | 35.  | 43.51  |        |        |
| +             | HYDROGRAPH AT | SC-4B1 | 338.  | 26.00  | 326.  | 223.  | 86.  | 6.07   |        |        |
| +             | 2 COMBINED AT | SC-4   | 338.  | 26.00  | 326.  | 230.  | 120. | 49.58  |        |        |
| •             | 3 COMBINED AT | 4C2    | 962.  | 29.00  | 947.  | 826.  | 531. | 208.28 |        |        |
| +             | ROUTED TO     | 5R     | 935.  | 31.00  | 919.  | 815.  | 529. | 208.28 |        |        |
| +             | HYDROGRAPH AT | SC-3   | 663.  | 77.00  | 662.  | 650.  | 547. | 56.44  |        |        |
| +             | 2 COMBINED AT | 5C     | 1120. | 48.00  | 1113. | 1064. | 967. | 264.72 |        |        |
| +             | DIVERSION TO  | DIVI   | 335.  | 48.00  | 333.  | 318.  | 289. | 264.72 |        |        |
| +             | HYDROGRAPH AT | DIVI   | 785.  | 48.00  | 780.  | 746.  | 678. | 264.72 |        |        |
| +             | ROUTED TO     | 6R     | 772.  | 53.00  | 769.  | 744.  | 675. | 264.72 |        |        |
| +             | HYDROGRAPH AT | SC-3B  | 110.  | 50.00  | 110.  | 103.  | 66.  | 6.71   |        |        |
| +             | 2 COMBINED AT | 6C     | 880.  | 52.00  | 876.  | 840.  | 740. | 271.43 |        |        |
| +             | ROUTED TO     | 7R     | 879.  | 53.00  | 875.  | 840.  | 739. | 271.43 |        |        |
| +             | HYDROGRAPH AT | SC-2   | 23.   | 74.00  | 23.   | 22.   | 18.  | 11.48  |        |        |
| +             | 2 COMBINED AT | 7C     | 896.  | 53.00  | 892.  | 858.  | 756. | 282.91 |        |        |
| +             | ROUTED TO     | 8R     | 891.  | 56.00  | 888.  | 857.  | 754. | 282.91 |        |        |
|               | HYDROGRAPH AT |        |       |        |       |       |      |        |        |        |

| + |               | SC-1  | 197.  | 53.00 | 196.          | 186.  | 127.          | 7.07   |
|---|---------------|-------|-------|-------|---------------|-------|---------------|--------|
| + | 2 COMBINED AT | 8C1   | 1085. | 56.00 | 1081.         | 1040. | 879.          | 289.98 |
| + | HYDROGRAPH AT | SC-8  | 410.  | 67.00 | 410.          | 399.  | 316.          | 19.99  |
| + | ROUTED TO     | 1BR   | 410.  | 71.00 | 409.          | 398.  | 315.          | 19.99  |
| + | HYDROGRAPH AT | SM-18 | 160.  | 72.00 | 160.          | 156.  | 125.          | 27.11  |
| + | 2 COMBINED AT | 1BC1  | 569.  | 71.00 | 5 <b>69</b> . | 553.  | 440.          | 47.10  |
| + | HYDROGRAPH AT | SM-17 | 303.  | 50.00 | . 302-        | 285.  | 187.          | 7.03   |
| + | 2 COMBINED AT | 1BC2  | 799.  | 62.00 | 7 <b>97</b> . | 768.  | 608.          | 54.13  |
| + | ROUTED TO     | 2BR   | 799.  | 63.00 | 797.          | 768.  | 608.          | 54.13  |
| + | HYDROGRAPH AT | SM-16 | 263.  | 76.00 | 262 -         | 257.  | 215.          | 25.18  |
|   | 2 COMBINED AT | 2BC   | 1044. |       |               |       | 818.          |        |
| + | ROUTED TO     |       |       | 65.00 | 1041.         | 1008. |               | 79.31  |
| + | HYDROGRAPH AT | 3BR   | 1043. | 66.00 | 1041.         | 1008. | 817.          | 79.31  |
| + | 2 COMBINED AT | SM-15 | 291.  | 54.00 | 290.          | 277.  | 193.          | 11.10  |
| + | ROUTED TO     | 3BC   | 1306. | 63.00 | 1303.         | 1259. | 1000.         | 90.41  |
| + | HYDROGRAPH AT | 4BR   | 1304. | 64.00 | 1301.         | 1258. | 1000.         | 90.41  |
| + |               | SM-14 | 300.  | 82.00 | 300.          | 295.  | 25 <b>5</b> . | 21.60  |
| + | 2 COMBINED AT | 4BC   | 1565. | 66.00 | 1561.         | 1515. | 1240.         | 112.01 |
| + | ROUTED TO     | 8BR   | 1564. | 67.00 | 1561.         | 1515. | 1240.         | 112.01 |
| + | HYDROGRAPH AT | SM-13 | 80.   | 90.00 | 80.           | 79.   | 70.           | 22.25  |
| • | 2 COMBINED AT | 8C2   | 1630. | 68.00 | 1627.         | 1580. | 1304.         | 134.26 |
| + | 2 COMBINED AT | 8C3   | 2640. | 63.00 | 2636.         | 2569. | 2154.         | 424.24 |
| + | ROUTED TO     | 9R    | 2638. | 66.00 | 2633.         | 2566. | 2153.         | 424.24 |
| + | HYDROGRAPH AT | 295   | 266.  | 41.00 | 263.          | 235.  | 128.          | 12.28  |
| + | 2 COMBINED AT | Com9A | 2722. | 64.00 | 2718.         | 2651. | 2235.         | 436.52 |
| + | HYDROGRAPH AT | 28S   | 394.  | 54.00 | 393.          | 372.  | 253.          | 25.91  |
| + | 2 COMBINED AT | Com9B | 3074. | 62.00 | 3068.         | 2981. | 2470.         | 462.43 |
| + | ROUTED TO     | Rt10  | 2970. | 70.00 | 2965          | 2893. | 2447.         | 462.43 |
|   | DIVERSION TO  |       |       |       |               |       |               |        |

| + |               | DIV2   | 849.  | 70.00 | 847.  | 827.  | 699.  | 462.43 |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|
| + | HYDROGRAPH AT | DIV2   | 2122. | 70.00 | 2118. | 2066. | 1748. | 462.43 |
| + | HYDROGRAPH AT | 275    | 472.  | 29.00 | 460.  | 343.  | 141.  | 12.15  |
| + | 2 COMBINED AT | Com10A | 2131. | 70.00 | 2128. | 2078. | 1774. | 474.58 |
| + | HYDROGRAPH AT | 265    | 448.  | 28.00 | 436.  | 314.  | 125.  | 10.55  |
| + | HYDROGRAPH AT | 24S    | 157.  | 29.00 | 153.  | 114.  | 47.   | 3.83   |
| + | 3 COMBINED AT | Com10B | 2140. | 69.00 | 2137. | 2089. | 1806. | 488.96 |
| + | ROUTED TO     | Rt11   | 2106. | 75.00 | 2103. | 2073. | 1805. | 488.96 |
| + | HYDROGRAPH AT | 228    | 227.  | 35.00 | 224.  | 187.  | 89.   | 7.55   |
| + | 2 COMBINED AT | Com11A | 2121. | 74.00 | 2119. | 2092. | 1852. | 496.51 |
| + | HYDROGRAPH AT | 20\$   | 268.  | 39.00 | 265.  | 232.  | 121.  | 10.57  |
| + | 2 COMBINED AT | Com11B | 2160. | 72.00 | 2159. | 2144. | 1951. | 507.08 |
| + | ROUTED TO     | Rt12   | 2157. | 75.00 | 2155. | 2139. | 1950. | 507.08 |
| + | HYDROGRAPH AT | 18S    | 168.  | 31.00 | 165.  | 128.  | 55.   | 4.69   |
| + | 2 COMBINED AT | Com12  | 2160. | 74.00 | 2159. | 2146. | 1983. | 511.77 |
| + | ROUTED TO     | Rt13   | 2159. | 76.00 | 2158. | 2144. | 1983. | 511.77 |
| + | HYDROGRAPH AT | 168    | 159.  | 39.00 | 158.  | 138.  | 71.   | 9.60   |
| + | 2 COMBINED AT | Com13A | 2180. | 73.00 | 2179. | 2171. | 2044. | 521.37 |
| + | HYDROGRAPH AT | 15\$   | 289.  | 52.00 | 287.  | 270.  | 178.  | 25.08  |
| + | 2 COMBINED AT | Com13B | 2447. | 50.00 | 2443. | 2420. | 2221. | 546.45 |
| + | ROUTED TO     | Rt14   | 2386. | 68.00 | 2385. | 2370. | 2210. | 546.45 |
| + | HYDROGRAPH AT | 13s    | 216.  | 48.00 | 215.  | 199.  | 124.  | 19.76  |
| + | 2 COMBINED AT | Com14A | 2536. | 60.00 | 2534. | 2510. | 2326. | 566.21 |
| + | HYDROGRAPH AT | 14s    | 230.  | 38.00 | 227.  | 196.  | 100.  | 9.53   |
| + | 2 COMBINED AT | Com14B | 2623. | 55.00 | 2621. | 2594. | 2406. | 575.74 |
| + | ROUTED TO     | Rt15   | 2572. | 65.00 | 2570. | 2551. | 2395. | 575.74 |
| + | HYDROGRAPH AT | 115    | 376.  | 26.00 | 364.  | 250.  | 96.   | 8.20   |
|   | 2 COMBINED AT |        |       |       |       |       |       |        |

| +        |               | Com15      | 2576. | 65.00 | 2575. | 2556. | 2421. | 583.94 |
|----------|---------------|------------|-------|-------|-------|-------|-------|--------|
| +        | ROUTED TO     | Rt16       | 2546. | 74.00 | 2545. | 2529. | 2399. | 583.94 |
| +        | HYDROGRAPH AT | 7s         | 390.  | 54.00 | 389.  | 368.  | 249.  | 29.41  |
| +        | 2 COMBINED AT | Com16      | 2850. | 65.00 | 2848. | 2819. | 2636. | 613.35 |
| +        | ROUTED TO     | Rt17       | 2848. | 67.00 | 2846. | 2817. | 2630. | 613.35 |
| +        | HYDROGRAPH AT | 6S         | 537.  | 27.00 | 521.  | 365.  | 142.  | 9.21   |
| +        | 2 COMBINED AT | Com17      | 2856. | 66.00 | 2854. | 2827. | 2657. | 622.56 |
| +        | ROUTED TO     | Rt18       | 2854. | 67.00 | 2852. | 2826. | 2653. | 622.56 |
| +        | HYDROGRAPH AT | 45         | 796.  | 34.00 | 783.  | 647.  | 303.  | 22.35  |
| +        | 2 COMBINED AT | Com18A     | 3102. | 43.00 | 3083. | 3016. | 2809. | 644.91 |
| +        | HYDROGRAPH AT | 3 <b>s</b> | 310.  | 30.00 | 302.  | 231.  | 98.   | 4.49   |
| +        | 2 COMBINED AT | Com18B     | 3241. | 42.00 | 3214. | 3094. | 2849. | 649.40 |
| <b>+</b> | ROUTED TO     | Rt19       | 3235. | 43.00 | 3210. | 3092. | 2848. | 649.40 |
| +        | HYDROGRAPH AT | 2\$        | 577.  | 23.00 | 552.  | 338.  | 122.  | 5.35   |
| +        | 2 COMBINED AT | Com19A     | 3291. | 42.00 | 3261. | 3120. | 2865. | 654.75 |
| +        | HYDROGRAPH AT | 15         | 350.  | 35.00 | 345.  | 289.  | 137.  | 7.47   |
| +        | 2 COMBINED AT | Com19B     | 3575. | 41.00 | 3538. | 3309. | 2961. | 662.22 |
| +        | HYDROGRAPH AT | DIV1       | 335.  | 48.00 | 333.  | 318.  |       | 0.00   |
| +        | HYDROGRAPH AT | SC-3A      | 91.   | 72.00 | 91.   | 89.   | 73.   | 5.87   |
| +        | 2 COMBINED AT | 20c        | 395.  | 51.00 | 395.  |       | 354.  |        |
| +        | ROUTED TO     | 21R        | 391.  | 64.00 | 391.  |       |       |        |
| +        | HYDROGRAPH AT | 29aR       | 73.   | 37.00 | 72.   | 61.   |       | 4.84   |
| +        | 2 COMBINED AT | Com21A     | 414.  | 54.00 | 413.  | 408.  | 374.  | 10.71  |
| ·<br>•   | HYDROGRAPH AT | 29R        | 121.  | 47.00 | 120.  | 111.  |       | 18.03  |
|          | 2 COMBINED AT | Com21B     | 530.  | 51.00 | 528.  |       |       |        |
| +        | ROUTED TO     | 22R        |       | 53.00 | 526.  |       |       |        |
| +        | HYDROGRAPH AT |            | 12.   | 30.00 | 12.   |       |       | 2.35   |
| +        | 2 COMBINED AT | 28aR       | 14.   | 50.00 | 14.   | 6.    | 3.    | 2.33   |

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| +   |               | Com22        | 529.  | 53.00 | 527.  | 512.         | 439. | 31.09  |  |
|-----|---------------|--------------|-------|-------|-------|--------------|------|--------|--|
| +   | ROUTED TO     | Rt23         | 475.  | 68.00 | 475.  | <b>4</b> 67. | 413. | 31.09  |  |
| +   | HYDROGRAPH AT | 24R          | 188.  | 50.00 | 187.  | 175.         | 112. | 22.22  |  |
| +   | 2 COMBINED AT | Com23A       | 624.  | 60.00 | 623.  | 604.         | 508. | 53.31  |  |
| +   | HYDROGRAPH AT | 28R          | 0.    | 1.00  | 0.    | 0.           | 0.   | 4.68   |  |
| +   | HYDROGRAPH AT | 25R          | 101.  | 38.00 | 100.  | 86.          | 43.  | 8.99   |  |
| +   | HYDROGRAPH AT | 27R          | 243.  | 50.00 | 241.  | 225.         | 144. | 23.93  |  |
| +   | 3 COMBINED AT | Com24        | 322.  | 45.00 | 320.  | 295.         | 186. | 37.60  |  |
| +   | ROUTED TO     | Rt25         | 314.  | 53.00 | 312.  | 289.         | 183. | 37.60  |  |
| + . | HYDROGRAPH AT | 22R          | 403.  | 46.00 | 401.  | 369.         | 223. | 18.04  |  |
| +   | 2 COMBINED AT | Com25        | 699.  | 49.00 | 695.  | 638.         | 397. | 55.64  |  |
| +   | HYDROGRAPH AT | 19R          | 81.   | 41.00 | 80.   | 71.          | 38.  | 11.18  |  |
| +   | 3 COMBINED AT | Com23B       | 1342. | 51.00 | 1336. | 1262.        | 922. | 120.13 |  |
| +   | ROUTED TO     | Rt26A        | 1341. | 52.00 | 1336. | 1262.        | 922. | 120.13 |  |
| +   | DIVERSION TO  | DIV3         | 765.  | 52.00 | 763.  | 724.         | 524. | 120.13 |  |
| +   | HYDROGRAPH AT | DIV3         | 576.  | 52.00 | 573.  | 537.         | 398. | 120.13 |  |
| +   | ROUTED TO     | Rt26B        | 571.  | 54.00 | 568.  | 533.         | 397. | 120.13 |  |
| +   | HYDROGRAPH AT | 20R          | 529.  | 35.00 | 521.  | 438.         | 211. | 18.78  |  |
| +   | 2 COMBINED AT | Com26        | 876.  | 43.00 | 869.  | 811.         | 580. | 138.91 |  |
| +   | ROUTED TO     | Rt27A        | 682.  | 59.00 | 680.  | 659.         | 531. | 138.91 |  |
| +   | HYDROGRAPH AT | 13R          | 378.  | 31.00 | 371.  | 288.         | 124. | 11.50  |  |
| +   | 2 COMBINED AT | Com27A       | 732.  | 53.00 | 731.  | 719.         | 613. | 150.41 |  |
| +   | HYDROGRAPH AT | 14R          | 201.  | 37.00 | 198.  | 171.         | 87.  | 9.24   |  |
| +   | ROUTED TO     | Rt27B        | 128.  | 50.00 | 127.  | 115.         | 74.  | 9.24   |  |
| +   | 2 COMBINED AT | Com27B       | 859.  | 51.00 | 857.  | 834.         | 687. | 159.65 |  |
| +   | ROUTED TO     | Rt28         | 851.  | 55.00 | 849.  | 827.         | 682. | 159.65 |  |
| +   | HYDROGRAPH AT | 1 <b>1</b> R | 318.  | 26.00 | 307.  | 203.         | 76.  | 10.09  |  |
|     | 2 COMBINED AT |              |       |       |       |              |      |        |  |

| + |               | Com28A | 861.  | 54.00  | 859.  | 843.  | 726.  | 169.74 |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|
| + | HYDROGRAPH AT | 8R     | 43.   | 30.00  | 41.   | 28.   | 11.   | 11.62  |
| + | 2 COMBINED AT | Com28B | 864.  | 53.00  | 863.  | 848.  | 736.  | 181.36 |
| + | ROUTED TO     | Rt29   | 855.  | 58.00  | 854.  | 839.  | 724.  | 181.36 |
| + | HYDROGRAPH AT | 10R    | 682.  | 34.00  | 671.  | 551.  | 256.  | 21.47  |
| + | 2 COMBINED AT | Com29  | 1373. | 37.00  | 1364. | 1244. | 952.  | 202.83 |
| + | ROUTED TO     | Rt30   | 1224. | 45.00  | 1220. | 1178. | 947.  | 202.83 |
| + | HYDROGRAPH AT | 6R     | 301.  | 43.00  | 298.  | 270.  | 154.  | 16.37  |
| + | 2 COMBINED AT | Com30A | 1523. | 44.00  | 1516. | 1445. | 1098. | 219.20 |
| + | HYDROGRAPH AT | 4R     | 167.  | 30.00  | 163.  | 125.  | 53.   | 4.73   |
| + | 2 COMBINED AT | Com30B | 1595. | 42.00  | 1590. | 1520. | 1144. | 223.93 |
| + | ROUTED TO     | Rt31   | 1364. | 56.00  | 1362. | 1334. | 1116. | 223.93 |
| + | HYDROGRAPH AT | 2R     | 420.  | 25.00  | 403.  | 265.  | 99.   | 5.58   |
| + | 2 COMBINED AT | Com31A | 1374. | 55.00  | 1372. | 1348. | 1166. | 229.51 |
| + | HYDROGRAPH AT | 3R     | 223.  | 28.00  | 217.  | 157.  | 63.   | 4.47   |
| + | 2 COMBINED AT | Com31B | 1392. | 53.00  | 1390. | 1372. | 1216. | 233.98 |
| + | ROUTED TO     | Rt32   | 1234. | 73.00  | 1233. | 1221. | 1119. | 233.98 |
| + | HYDROGRAPH AT | 1R     | 873.  | 34.00  | 858.  | 710.  | 331.  | 16.89  |
| + | 2 COMBINED AT | Com32  | 1714. | 39.00  | 1704. | 1566. | 1356. | 250.87 |
| + | HYDROGRAPH AT | DIV3   | 765.  | 52.00  | 763.  | 724.  | 524.  | 0.00   |
| + | HYDROGRAPH AT | 17R    | 195.  | 34.00  | 192.  | 158.  | 73.   | 6.47   |
| + | 2 COMBINED AT | Com33A | 843.  | 48.00  | 841.  | 800.  | 580.  | 6.47   |
| + | HYDROGRAPH AT | 23R    | 706.  | 84.00  | 705.  | 695.  | 601.  | 94.54  |
| + | 2 COMBINED AT | Com33B | 1285. | 61.00  | 1280. | 1254. | 1104. | 101.01 |
| + | ROUTED TO     | LSV    | 527.  | 129.00 | 527.  | 525.  | 512.  | 101.01 |

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAQ ELEMENT PEAK TIME TO VOLUME DT PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (TN) 60.00 4860.00 0.08 60.00 12.46 4860.00 0.08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7543E+02 EXCESS=0.0000E+00 OUTFLOW=0.7512E+02 BASIN STORAGE=0.7456E-02 PERCENT ERROR= 0.4 2R MANE 60.00 42.29 2760.00 0.12 60.00 42.29 2760.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1795E+03 EXCESS=0.0000E+00 OUTFLOW=0.1788E+03 BASIN STORAGE=0.2367E-01 PERCENT ERROR= 0.3 255.31 3300.00 3R MANE 60.00 60.00 0.28 255.31 3300.00 0.28 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1385E+04 EXCESS=0.0000E+00 OUTFLOW=0.1385E+04 BASIN STORAGE=0.1986E-01 PERCENT ERROR= 0.0 60.00 2700.00 3R MANE 38.55 0.36 60.00 0.36 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1179E+03 EXCESS=0.0000E+00 OUTFLOW=0.1173E+03 BASIN STORAGE=0.5410E-02 PERCENT ERROR= 0.5 5AROUT MANE 39.00 417.48 5148.00 0.78 60.00 417.39 5160.00 0.78 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1606E+04 EXCESS=0.0000E+00 OUTFLOW=0.1606E+04 BASIN STORAGE=0.3599E+00 PERCENT ERROR= 0.0 5A1RT MANE 24.00 338.08 6384.00 0.51 60.00 337.86 6360.00 0.51 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1207E+04 EXCESS=0.0000E+00 OUTFLOW=0.1196E+04 BASIN STORAGE=0.1447E+01 PERCENT ERROR= 0.8 7560.00 4AROUT MANE 60.00 42.18 0.12 60.00 42.18 7560.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1900E+03 EXCESS=0.0000E+00 OUTFLOW=0.1897E+03 BASIN STORAGE=0.1295E+00 PERCENT ERROR= 0.1 4A1ROU MANE 12.00 202.04 2292.00 0.19 60.00 201.49 2280.00 0.19 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3809E+03 EXCESS=0.0000E+00 OUTFLOW=0.3792E+03 BASIN STORAGE=0.1776E+00 PERCENT ERROR= 0.4 192.22 2640.00 0.17 60.00 192.22 4AABRT MANE 24.00 2640.00 0.17 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4037E+03 EXCESS=0.0000E+00 OUTFLOW=0.4036E+03 BASIN STORAGE=0.7820E+00 PERCENT ERROR= -0.260.00 409.64 4260.00 2.30 60.00 409.64 4260.00 1BR MANE 2.30 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2456E+04 EXCESS=0.0000E+00 OUTFLOW=0.2456E+04 BASIN STORAGE=0.7541E-02 PERCENT ERROR= 2BR MANE 60.00 798.74 3780.00 1.63 60.00 798.74 3780 00 1.63 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4694E+04 EXCESS=0.0000E+00 OUTFLOW=0.4695E+04 BASIN STORAGE=0.7389E-02 PERCENT ERROR= 0.0 1.54 1043.19 3919.96 60.00 1043.17 3960.00 1.54 3BR MANE 49.62 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6502E+04 EXCESS=0.0000E+00 OUTFLOW=0.6502E+04 BASIN STORAGE=0.1632E+00 PERCENT ERROR= 0.0

|              | 4BR     | MANE    | 58.58       | 1304.45    | 3808.01       | 1.62       | 60.00      | 1304.41     | 3840.00     | 1.62                     |       |
|--------------|---------|---------|-------------|------------|---------------|------------|------------|-------------|-------------|--------------------------|-------|
| CONTINUITY S | UMMARY  | (AC~FT) | - INFLOW=0. | 7831E+04 1 | EXCESS=0.0000 | E+00 OUTFL | ow=0.7831  | E+04 BASIN  | STORAGE=0   | .2376E+00 PERCENT ERROR= | 0.0   |
|              | 8BR     | MANE    | 60.00       | 1564.32    | 4020.00       | 1.70       | 60.00      | 1564.32     | 4020.00     | 1.70                     |       |
| CONTINUITY S | UMMARY  | (AC-FT) | - INFLOW=0. | 1013E+05   | EXCESS≃0.0000 | E+00 OUTFL | OW=0.1013  | BE+05 BASIN | STORAGE=0   | .7430E+00 PERCENT ERROR= | 0.0   |
|              | 9R      | MANE    | 60.00       | 2637.66    | 3960.00       | 0.84       | 60.00      | 2637.66     | 3960.00     | 0.84                     |       |
| CONTINUITY S | UMMARY  | (AC-FT) | - INFLOW≈0  | .1907E+05  | EXCESS=0.0000 | E+00 OUTFL | ,O₩=0.190° | 7E+05 BASIN | storage=0   | .8702E+01 PERCENT ERROR= | 0.0   |
|              | Rt25    | ENAM    | 60.00       | 314.22     | 3180.00       | 0.59       | 60.00      | 314.22      | 3180.00     | 0.59                     |       |
| CONTINUITY S | SUMMARY | (AC-FT) | - INFLOW≈0  | .1199E+04  | EXCESS=0.0000 | E+00 OUTFL | OW=0.119   | 3E+04 BASIN | I STORAGE≍C | .4836E+00 PERCENT ERROR= | = 0.4 |

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## SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

| PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>135               | • VALUE<br>• 00<br>0.<br>0. | SPILLWAY CRI<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|------|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|      | 1.00               |                                  |                              |                             | 418.<br>EACH ANALYSIS<br>STEP USED I  |                               |                                    | 0.00                        |
| PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|      | 1.00               |                                  |                              |                             | 340.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
| PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               |                             | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|      | 1.00               |                                  |                              |                             | 42.<br>EACH ANALYSIS<br>STEP USED D   |                               |                                    | 0.00                        |
| PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               |                             | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS .  | TIME OF<br>FAILURE<br>HOURS |
|      | 1.00               |                                  |                              |                             | 205.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
| PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               |                             | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|      | 1.00               | 113.75                           | 0.10                         | 355.                        | 196.                                  | 10.00                         | 40.00                              | 0.00                        |

#### **HEC-1 MODEL**

## PROPOSED CONDITIONS 25% DIVERSION

100-YEAR MODEL

\* LOOD HYDROGRAPH PACKAGE (HEC-1)

\* MAY 1991

\* VERSION 4.0.1E

\* Lahey F77L-EM/32 version 5.01

\* Dodson & Associates, Inc.

\* RUN DATE 11/07/01 TIME 15:29:56

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| Х    | х   | XXXXXXX | XXXXX |   |       | x   |
|------|-----|---------|-------|---|-------|-----|
| X    | X   | X       | x     | х |       | XX  |
| х    | x   | x       | x     |   |       | X.  |
| XXXX | XXX | XXXX    | x     |   | XXXXX | х   |
| х    | Х   | x       | X     |   |       | Х   |
| Х    | Х   | х       | х     | Х |       | х   |
| х    | Х   | XXXXXXX | XXXXX |   |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBERAK OUTFLOW SUMMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

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LINE
              ID.....1....2.....3.....4.....5.....6.....7......8.....9.....10
                   Hidalgo County Flood Insurance Study
                   Job No. 11-00389-002
                   File Name: Deten100.DAT
                                             Proposed with Detention Conditions
                   100-year Rain-fall
                                             Future Development
              * HEC-1 model for the North-West main drain area
              * Model sequence is as follows:
              * **********
              * revised rainfall from USGS report 98-4044
              * REVISED CN TYPE I ANTECEDANT
              * REVISED LAG BASED ON REVISED CN I
              * IA LOSSES CALCULATED BASED ON 3 * HEAVY CROP, 1 " RURAL, 0 " URBAN
              * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
              * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
              * ROUTED 5&4 BASINS THROUGH STORAGE
              * MODIFIED PULS ROUTING REACHES 5R-9R
              * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
              *DIAGRAM
  1
2
              ID
                   West Main drain area
                    100-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
              ID
  3
                                     0
                                          300
              IΤ
                      60 1JAN01
              IO
              * Start calculating hydrograph for the sub water sheds
                 that drain to the West Main drain.
  5
                   SC-7A SUBWATER SHED
                   Compute hydrograph for sub-water shed SC-7A
  7
              BA
                   18.4
  8
              PΗ
                                                   4.68
                                                         5.65
                                                                   6.29
                                                                          7.51
                                                                                  8.61
                                                                                          9.19
                   5.721
                              60
  10
              UD
                    53.5
  11
              KΚ
  12
              KM
                   Route hydrograph from head water to node 1 using Muskingum-Cunge Method
  13
              RD
  14
              RC
                    0.08
                            0.03
                                   0.08
                                          19200 0.0002
                                                            217
  15
              RX
                    1000
                           2500
                                   2917
                                           2994
                                                   3005
                                                           3061
                                                                   4500
                                                                           5000
  16
              RY
                   203.5
                           202.0 204.4 191.53 191.53
                                                          204.5
                                                                  199.9
                                                                         199.0
  17
              KK
                   SC-7B SUBWATER SHED
  18
              KM
                   Compute hydrograph for sub-water shed SC-7B
  19
              BA
                    9.82
  20
              LS
                   5.282
                              60
  21
              IID
                    20.1
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

|               |               |         |              | TIME IN         | HOURS, AREA | IN SQUARE N    | MILES      |         |         |           |
|---------------|---------------|---------|--------------|-----------------|-------------|----------------|------------|---------|---------|-----------|
|               | OPERATION     | STATION | PEAK<br>FLOW | TIME OF<br>PEAK | AVERAGE FI  | OW FOR MAXIM   | NUM PERIOD | BASIN   | MAXIMUM | TIME OF   |
| +             |               |         |              |                 | 6-HOUR      | 24-HOUR        | 72-HOUR    | AREA    | STAGE   | MAX STAGE |
| +             | HYDROGRAPH AT | SC-7A   | 176.         | 69.00           | 176.        | 171.           | 136.       | 18.40   |         |           |
|               | ROUTED TO     |         |              |                 |             |                | 2-4.       | 3.01.20 |         |           |
| +             |               | 1R      | 176.         | 73.00           | 175.        | 170.           | 135.       | 18.40   |         |           |
| +             | HYDROGRAPH AT | SC-7B   | 306.         | 35.00           | 302.        | 252.           | 120.       | 9.82    |         |           |
| +             | 2 COMBINED AT | 1C      | 336.         | 37.00           | 333.        | 298.           | 228.       | 28.22   |         |           |
| +             | ROUTED TO     | 2R      | 328.         | 41.00           | 325.        | 293.           | 226.       | 28.22   |         |           |
| +             | HYDROGRAPH AT | SC-7C   | 568.         | 43.00           | 563.        | 508.           | 286.       | 23.00   |         |           |
| +             | HYDROGRAPH AT | SC-6A   | 667.         | 66.00           | 666.        | 645.           | 499.       | 41.66   |         |           |
| +             | 3 COMBINED AT | 2C      | 1333.        | 48.00           | 1328.       | 1269.          | 985.       | 92.88   |         |           |
| +             | ROUTED TO     | 3R      | 1329.        | 52.00           | 1326.       | 1268.          | 984.       | 92.88   |         |           |
| +             | HYDROGRAPH AT | SC-6B   | 521.         | 37.00           | 515.        | 444.           | 223.       | 6.58    |         |           |
| +             | HYDROGRAPH AT | SC-7D   | 188.         | 41.00           | 186.        | 165.           | 89.        | 6.75    |         |           |
| +             | ROUTED TO     | 3R      | 183.         | 42.00           | 182.        | 162.           | 89.        | 6.15    |         |           |
| +             | 3 COMBINED AT | 3C      | 1858.        | 45.00           | 1850.       | 1744.          | 1267.      | 105.61  |         |           |
| +             | ROUTED TO     | 4R      | 1688.        | 54.00           | 1683.       | 1624.          | 1261.      | 105.61  |         |           |
| +             | HYDROGRAPH AT | SC5A    | 1085.        | 65.00           | 1084.       | 1 <b>0</b> 51. | 816.       | 38.43   |         |           |
| +             | ROUTED TO     | 5ACANA  | 1081.        | 68.00           | 1079.       | 1030.          | 715.       | 38.43   | 141.00  | 68.00     |
| +             | ROUTED TO     | 5AROUT  | 1081.        | 71.00           | 1078.       | 1029.          | 713.       | 38.43   |         |           |
| +             | HYDROGRAPH AT | SC5A1   | 643.         | 29.00           | 627.        | 464.           | 190.       | 5.64    |         |           |
| +             | 2 COMBINED AT | 5AA1    | 1092.        | 71.00           | 1089.       | 1039.          | 718.       | 44.07   |         |           |
| <b>+</b><br>+ | ROUTED TO     | 5A1CAN  | 1088.        | 73.00           | 1085.       | 1031.          | 712.       | 44.07   | 117.15  | 73.00     |
| +             | ROUTED TO     | 5Alrt   | 1087.        | 78.00           | 1084.       | 1031.          | 707.       | 44.07   |         |           |
| +             | HYDROGRAPH AT | SC5B    | 995.         | 27.00           | 964.        | 675.           | 264.       | 9.02    |         |           |
| +             | 2 COMBINED AT | 4C1     | 1089.        | 78.00           | 1086.       | 1034.          | 708.       | 53.09   |         |           |

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| +   | HYDROGRAPH AT | SC-4A      | 1213.         | 52.00          | 1209.         | 1142. | 762.  | 30.73  |        |       |
|-----|---------------|------------|---------------|----------------|---------------|-------|-------|--------|--------|-------|
| ++  | ROUTED TO     | 4ACANA     | 1012.         | 64.00          | 998.          | 835.  | 454.  | 30.73  | 172.32 | 64.00 |
| +   | ROUTED TO     | 4AROUT     | 1011.         | 66.00          | 997.          | 832.  | 452.  | 30.73  | 1,2.32 | 54.55 |
| +   | HYDROGRAPH AT | SC-4A1     | 1024.         | 25.00          | 986.          | 632.  | 233.  | 7.34   |        |       |
| +   | 2 COMBINED AT | SC4AA1     | 1024.         | 25.00          | 1000.         | 833.  | 541.  | 38.07  |        |       |
| + + | ROUTED TO     | 4A1CAN     | 1010.         | 67.00          | 996.          | 826.  | 499.  | 38.07  | 141.19 | 67.00 |
| +   | ROUTED TO     | 4A1ROU     | 1009.         | 69.00          | 9 <b>94</b> . | 821.  | 495.  | 38.07  |        |       |
| +   | HYDROGRAPH AT | SC-4B      | 913.          | 20.00          | 830.          | 414.  | 141.  | 5.44   |        |       |
| +   | 2 COMBINED AT | SC4AAB     | 1193.         | 29.00          | 1002.         | 821.  | 558.  | 43.51  |        |       |
| ++  | ROUTED TO     | 4BCANA     | 1180.         | 30.00          | 994.          | 818.  | 537.  | 43.51  | 114.19 | 30.00 |
| +   | RÖUTED TO     | 4AABRT     | 1145.         | 32.00          | 991.          | 811.  | 535.  | 43.51  |        |       |
| +   | HYDROGRAPH AT | SC-4B1     | 725.          | 26.00          | 699.          | 475.  | 181.  | 6.07   |        |       |
| +   | 2 COMBINED AT | SC-4       | 1667.         | 32.00          | 1428.         | 1024. | 672.  | 49.58  |        |       |
| +   | 3 COMBINED AT | 4C2        | 3435.         | 73.00          | 3386.         | 2967. | 2510. | 208.28 |        |       |
| +   | ROUTED TO     | 5R         | 2814.         | 84.00          | 2808.         | 2710. | 2418. | 208.28 |        | •     |
| +   | HYDROGRAPH AT | SC-3       | 1380.         | 76.00          | 1379.         | 1353. | 1138. | 56.44  |        |       |
| +   | 2 COMBINED AT | 5 <b>c</b> | 4175.         | 82.00          | 4165.         | 4026. | 3491. | 264.72 |        |       |
| +   | DIVERSION TO  | DIV1       | 1475.         | 82.00          | 1471.         | 1418. | 1212. | 264.72 |        |       |
| +   | HYDROGRAPH AT | DIV1       | 2700.         | 82.00          | 2694.         | 2608. | 2279. | 264.72 |        |       |
| +   | ROUTED TO     | 6R         | 2509.         | 99.00          | 2505.         | 2459. | 2201. | 264.72 |        |       |
| +   | HYDROGRAPH AT | SC-3B      | 264.          | 49.00          | 263.          | 246.  | 157.  | 6.71   |        |       |
| +   | 2 COMBINED AT | 6C         | <b>2546</b> . | 98.00          | 2543.         | 2499. | 2292. | 271.43 |        |       |
| +   | ROUTED TO     | 7R         | 2546.         | 99. <b>0</b> 0 | 2542.         | 2498. | 2292. | 271.43 |        |       |
| +   | HYDROGRAPH AT | SC-2       | 139.          | 72.00          | 139.          | 136.  | 110.  | 11.48  |        |       |
| +   | 2 COMBINED AT | 7C         | 2645.         | 98.00          | 2642.         | 2597. | 2399. | 282.91 |        |       |
| +   | ROUTED TO     | 8R         | 2622.         | 104.00         | 2619.         | 2578. | 2387. | 282.91 |        |       |

| + | HYDROGRAPH AT           | SC-1         | 360.          | 52.00          | 359.          | 340.          | 231.          | 7.07            |  |
|---|-------------------------|--------------|---------------|----------------|---------------|---------------|---------------|-----------------|--|
| + | 2 COMBINED AT           | 8C1          | 2685.         | 103.00         | 2682.         | 2646.         | 2532.         | 289.98          |  |
| + | HYDROGRAPH AT           | SC-8         | 770.          | 67.00          | 769.          | 748.          | 592.          | 19.99           |  |
| + | ROUTED TO               | 1BR          | 769.          | 70.00          | 768.          | 747.          | 591.          | 19.99           |  |
| + | HYDROGRAPH AT           | SM-18        | 529.          | 70.00          | 529.          | 515.          | <b>4</b> 15.  | 27.11           |  |
| + | 2 COMBINED AT           | 1BC1         | 1298.         | 70.00          | 1296.         | 1262.         | 1007.         | 47.10           |  |
| + | HYDROGRAPH AT           | SM-17        | 503.          | 50.00          | 502.          | 472.          | 310.          | 7.03            |  |
| + | 2 COMBINED AT           | 1BC2         | 1675.         | 63.00          | 1670.         | 1614.         | 1285.         | 54.13           |  |
| + | ROUTED TO               | 2BR          | 1674.         | 64.00          | 1669.         | 1613.         | 1284.         | 54.13           |  |
| + | HYDROGRAPH AT           | SM-16        | 589.          | 75.00          | 588.          | 577.          | 482.          | 25.18           |  |
| + | 2 COMBINED AT           | 2BC          | 2228.         | 66.00          | 2224.         | 2160.         | 1755.         | 79.31           |  |
| + | ROUTED TO HYDROGRAPH AT | 3BR          | 2228.         | 66.00          | 2223.         | 2159.         | <b>17</b> 55. | 79.31           |  |
| + | 2 COMBINED AT           | SM-15        | 534.          | 54.00          | 532.          | 507.          | 353.          | 11.10           |  |
| + | ROUTED TO               | 3BC          | 2703.         | 64.00          | 2696.         | 2610.         | 2090.         | 90.41           |  |
| + | HYDROGRAPH AT           | 4BR          | 2700.         | 65.00          | 2694.         | 2608.         | 2088.         | 90.41           |  |
| + | 2 COMBINED AT           | SM-14        | 571.          | 82.00          | 570.          | 562.          | 486.          | 21.60           |  |
| + | ROUTED TO               | 4BC          | 3206.         | 67.00          | 3199.         | 3106.         | 2547.         | 112.01          |  |
| + | HYDROGRAPH AT           | 8BR          | 3205.         | 68.00          | 3198.         | 3106.         | 2547.         | 112.01          |  |
| + | 2 COMBINED AT           | SM-13        | 282.          | 89.00          | 282.          | 278.          | 246.          | 22.25           |  |
| + | 2 COMBINED AT           | 8C2          | 3444.         | 69.00          | 3436.         | 3343.         | 2773.         | 134.26          |  |
| + | ROUTED TO               | 8C3          | 5978.         | 69.00          | 5967.         | 5847.         | 5269.         | 424.24          |  |
| + | HYDROGRAPH AT           | 9R           | 5966.         | 74.00          | 5956.         | 5841.         | 5266.         | 424.24          |  |
| + | 2 COMBINED AT           | 298          | 634.          | 41.00          | 628.          | 560.          | 304.          | 12.28           |  |
| + | HYDROGRAPH AT           | Com9A        | 6086.         |                | 6077.         | 5967.         | 5408.         | 436.52          |  |
| + | 2 COMBINED AT           | 28S<br>Com9B | 916.<br>6747. | 53.00<br>69.00 | 914.<br>6738. | 866.<br>6614. | 588.<br>5910. | 25.91<br>462.43 |  |
| + | ROUTED TO               | Rt10         | 6149.         | 84.00          | 6144.         | 6076.         | 5638.         | 462.43          |  |
| + |                         | KLIU         | 0147.         | 04.00          | O.E.          | 0070.         | 2020-         | 402.43          |  |

| via   | ERSION TO   |        |       |        |       |       |       |        |
|-------|-------------|--------|-------|--------|-------|-------|-------|--------|
|       |             | DIV2   | 1757. | 84.00  | 1755. | 1736. | 1611. | 462.43 |
| HYL   | ROGRAPH AT  | DIV2   | 4392. | 84.00  | 4388. | 4340. | 4027. | 462.43 |
| HYE   | ROGRAPH AT  | 27S    | 1110. | 29.00  | 1082. | 803.  | 329.  | 12.15  |
| 2 0   | TA CHILBMO  | Com10A | 4396. | 84.00  | 4393. | 4345. | 4041. | 474.58 |
| нуг   | ROGRAPH AT  | 26S    | 1048. | 28.00  | 1021. | 732.  | 291.  | 10.55  |
| HYD   | ROGRAPH AT  | 248    | 363.  | 29.00  | 354.  | 262.  | 107.  | 3.83   |
| 3 0   | OMBINED AT  |        | 4398. | 84.00  |       |       |       |        |
| ROU   | TED TO      | Com10B | 4396. | 54.00  | 4395. | 4348. | 4056. | 488.96 |
| uvr   | anoceant am | Rt11   | 4292. | 95.00  | 4290. | 4263. | 4028. | 488.96 |
| ÷     | ROGRAPH AT  | 225    | 529.  | 35.00  | 520.  | 436,  | 207.  | 7.55   |
| 2 0   | OMBINED AT  | Com11A | 4299. | 95.00  | 4297. | 4271. | 4049. | 496.51 |
| нур   | ROGRAPH AT  | 205    | 615.  | 39.00  | 609.  | 533.  | 277.  | 10.57  |
| 2 0   | OMBINED AT  | Com11B | 4321. | 93.00  | 4319. | 4294. | 4111. | 507.08 |
| ROU   | TED TO      | Rt12   | 4273. | 103.00 | 4271. | 4252. | 4103. | 507.08 |
| HYD   | ROGRAPH AT  | 185    | 388.  | 31.00  | 380.  | 295.  | 127.  | 4.69   |
| 2 C   | OMBINED AT  | Com12  | 4273. | 103.00 | 4271. | 4252. | 4111. | 511.77 |
| ROU   | TED TO      |        |       |        |       |       |       |        |
| нуп   | ROGRAPH AT  | Rt13   | 4268. | 106.00 | 4267. | 4248. | 4109. | 511.77 |
| . 2 0 | OMBINED AT  | 165    | 454.  | 38.00  | 449.  | 391.  | 202.  | 9.60   |
| •     |             | Com13A | 4459. | 43.00  | 4449. | 4302. | 4191. | 521.37 |
| HYD   | ROGRAPH AT  | 15S    | 789.  | 52.00  | 787.  | 740.  | 488.  | 25.08  |
| 2 C   | OMBINED AT  | Com13B | 5205. | 45.00  | 5191. | 5026. | 4650. | 546.45 |
| ROU   | TED TO      | Rt14   | 4741. | 60.00  | 4737. | 4691. | 4536. | 546.45 |
| нур   | ROGRAPH AT  | 135    | 644.  | 48.00  | 641.  | 595.  | 369.  | 19.76  |
| 2 0   | OMBINED AT  | Coml4A | 5288. | 56.00  | 5280. | 5171. | 4810. | 566.21 |
| HYD   | ROGRAPH AT  | 145    | 551.  | 37.00  | .545. | 471.  | 239.  | 9.53   |
| 2 0   | OMBINED AT  | Com14B | 5536. | 53.00  | 5528. | 5412. | 4946. | 575.74 |
| ROU   | TED TO      |        |       |        |       |       |       |        |
| HYD   | ROGRAPH AT  | Rt15   | 5320. | 63.00  | 5313. | 5224. | 4869. | 575.74 |
|       |             | 115    | 887.  | 26.00  | 855.  | 584.  | 223.  | 8.20   |

| + | 2 COMBINED AT | Com15  | 5333. | 62.00 | 5327. | 5239. | 4881. | 583.94 |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|
| + | ROUTED TO     | Rt16   | 5100. | 76.00 | 5096. | 5048. | 4810. | 583.94 |
| + | HYDROGRAPH AT | 7s     | 968.  | 53.00 | 965.  | 914.  | 619.  | 29.41  |
| + | 2 COMBINED AT | Com16  | 5778. | 68.00 | 5771. | 5675. | 5249. | 613.35 |
| + | ROUTED TO     | Rt17   | 5758. | 71.00 | 5751. | 5659. | 5242. | 613.35 |
| + | HYDROGRAPH AT | 6S     | 1101. | 27.00 | 1068. | 744.  | 290.  | 9.21   |
| + | 2 COMBINED AT | Com17  | 5767. | 71.00 | 5760. | 5669. | 5255. | 622.56 |
| + | ROUTED TO     | Rt18   | 5713. | 76.00 | 5707. | 5628. | 5240. | 622.56 |
| + | HYDROGRAPH AT | 45     | 1698. | 34.00 | 1669. | 1379. | 644.  | 22.35  |
| + | 2 COMBINED AT | Com18A | 5805. | 74.00 | 5799. | 5726. | 5429. | 644.91 |
| + | HYDROGRAPH AT | 3\$    | 553.  | 30.00 | 540.  | 413.  | 175.  | 4.49   |
| + | 2 COMBINED AT | Com18B | 5816. | 73.00 | 5810. | 5739. | 5521. | 649.40 |
| + | ROUTED TO     | Rt19   | 5813. | 75.00 | 5807. | 5736. | 5516. | 649.40 |
| + | HYDROGRAPH AT | 25     | 1018. | 23.00 | 971.  | 594.  | 214.  | 5.35   |
| + | 2 COMBINED AT | Com19A | 5868. | 36.00 | 5831. | 5736. | 5560. | 654.75 |
| + | HYDROGRAPH AT | 1s     | 664.  | 35.00 | 654.  | 547.  | 260.  | 7.47   |
| + | 2 COMBINED AT | Com19B | 6522. | 36.00 | 6466. | 6020. | 5762. | 662.22 |
| + | HYDROGRAPH AT | DIV1   | 1475. | 82.00 | 1471. | 1418. | 1212. | 0.00   |
| + | HYDROGRAPH AT | SC-3A  | 178.  | 72.00 | 177.  | 174.  | 143.  | 5.87   |
| + | 2 COMBINED AT | 20C    | 1645. | 82.00 | 1641. | 1582. | 1353. | 5.87   |
| + | ROUTED TO     | 21R    | 1443. | 97.00 | 1441. | 1416. | 1258. | 5.87   |
| + | HYDROGRAPH AT | 29aR   | 227.  | 37.00 | 224.  | 192.  | 95.   | 4.84   |
| + | 2 COMBINED AT | Com21A | 1447. | 96.00 | 1445. | 1421. | 1278. | 10.71  |
| + | HYDROGRAPH AT | 29R    | 488-  | 47.00 | 485.  | 447.  | 271.  | 18.03  |
| + | 2 COMBINED AT | Com21B | 1552. | 51.00 | 1550. | 1512. | 1468. | 28.74  |
| + | ROUTED TO     | 22R    | 1532. | 56.00 | 1529. | 1494. | 1460. | 28.74  |
| + | HYDROGRAPH AT | 28aR   | 106.  | 27.00 | 102.  | 70.   | 27.   | 2.35   |
|   |               |        |       |       |       |       |       |        |

|   | 2 COMBINED AT | Com22  | 1536. | 55.00  | 1533. | 1499.          | 1463.          | 31.09  |
|---|---------------|--------|-------|--------|-------|----------------|----------------|--------|
|   | ROUTED TO     | Rt23   |       | 112.00 | 1395. |                | 1329.          |        |
|   | HYDROGRAPH AT | 24R    | 625.  | 50.00  | 623.  | 582.           | 372.           | 22.22  |
|   | 2 COMBINED AT | Com23A | 1705. | 57.00  | 1703. | 1671.          | 15 <b>45</b> . | 53.31  |
|   | HYDROGRAPH AT | 28R    | 51.   | 33.00  | 50.   | 38.            | 16.            | 4.68   |
| · | ROUTED TO     | Rt24   | 47.   | 44.00  | 46.   | 35.            | 16.            | 4.68   |
|   | HYDROGRAPH AT | 25R    | 366.  | 37.00  | 362.  | 311.           | 156.           | 8.99   |
|   | HYDROGRAPH AT | 27R    | 733.  | 50.00  | 730.  | 682.           | 434.           | 23.93  |
|   | 3 COMBINED AT | Com24  | 1071. | 44.00  | 1063. | 970.           | 602.           | 37.60  |
|   | ROUTED TO     | Rt25   | 1050. | 49.00  | 1043. | 956.           | 596.           | 37.60  |
|   | HYDROGRAPH AT | 22R    | 882.  | 46.00  | 878.  | 809.           | 488.           | 18.04  |
|   | 2 COMBINED AT | Com25  | 1924. | 47.00  | 1908. | 1748.          | 1073.          | 55.64  |
|   | HYDROGRAPH AT | 19R    | 359.  | 40.00  | 355.  | 314.           | 167.           | 11.18  |
|   | 3 COMBINED AT | Com23B | 3863. | 48.00  | 3839. | 3593.          | 2678.          | 120.13 |
| • | ROUTED TO     | Rt26A  | 3742. | 53.00  | 3728. | 35 <b>4</b> 6. | 2678.          | 120.13 |
|   | DIVERSION TO  | DIV3   | 1750. | 53.00  | 1744. | 1678.          | 1345.          | 120.13 |
|   | HYDROGRAPH AT | DIV3   | 1993. | 53.00  | 1983. | 1868.          | 1333.          | 120.13 |
|   | ROUTED TO     | Rt26B  | 1988. | 54.00  | 1979. | 1865.          | 1329.          | 120.13 |
|   | HYDROGRAPH AT | 20R    | 1248. | 35.00  | 1229. | 1032.          | 494.           | 18.78  |
| • | 2 COMBINED AT | Com26  | 2637. | 40.00  | 2625. | 2488.          | 1740.          | 138.91 |
|   | ROUTED TO     | Rt27A  | 1666. | 69.00  | 1663. | 1630.          | 1461.          | 138.91 |
|   | HYDROGRAPH AT | 13R    | 907.  | 30.00  | 888.  | 688.           | 294.           | 11.50  |
| - | 2 COMBINED AT | Com27A | 1728. | 37.00  | 1701. | 1679.          | 1589.          | 150.41 |
|   | HYDROGRAPH AT | 14R    | 528.  | 37.00  | 521.  | 449.           | 226.           | 9.24   |
|   | ROUTED TO     | Rt27B  | 638.  | 42.00  | 450.  | 308.           | 203.           | 9.24   |
|   | 2 COMBINED AT | Com27B | 2271. | 42.00  | 2071. | 1956.          | 1792.          | 159.65 |
|   | ROUTED TO     | Rt28   | 1907. | 68.00  | 1906. | 1900.          | 1758.          | 159.65 |

| + | HYDROGRAPH AT | 11R         | 934.  | 25.00  | 898.  | 587.  | 218.  | 10.09  |  |
|---|---------------|-------------|-------|--------|-------|-------|-------|--------|--|
| + | 2 COMBINED AT | r<br>Com28A | 1940. | 49.00  | 1937. | 1919. | 1828. | 169.74 |  |
| + | HYDROGRAPH AT | r<br>8r     | 490.  | 27.00  | 474.  | 325.  | 124.  | 11.62  |  |
| + | 2 COMBINED AT | r<br>Com28B | 2280. | 29.00  | 2208. | 2053. | 1924. | 181.36 |  |
| + | ROUTED TO     | Rt29        | 1913. | 68.00  | 1913. | 1910. | 1833. | 181.36 |  |
| + | HYDROGRAPH AT | r<br>10r    | 1540. | 34.00  | 1516. | 1246. | 575.  | 21.47  |  |
| + | 2 COMBINED AT | r<br>Com29  | 3161. | 35.00  | 3139. | 2863. | 2311. | 202.83 |  |
| + | ROUTED TO     | Rt30        | 2670. | 46.00  | 2661. | 2555. | 2223. | 202.83 |  |
| + | HYDROGRAPH AT | c<br>6R     | 746.  | 43.00  | 740.  | 670.  | 381.  | 16.37  |  |
| + | 2 COMBINED AT | r<br>Com30A | 3400. | 45.00  | 3385. | 3195. | 2573. | 219.20 |  |
| + | HYDROGRAPH AT | r<br>4R     | 395.  | 30.00  | 385.  | 295.  | 125.  | 4.73   |  |
| + | 2 COMBINED AT | r<br>Com30B | 3554. | 43.00  | 3535. | 3341. | 2663. | 223.93 |  |
| + | ROUTED TO     | Rt31        | 3058. | 56.00  | 3047. | 2935. | 2498. | 223.93 |  |
| + | HYDROGRAPH AT | r<br>2R     | 815.  | 25.00  | 782.  | 512.  | 192.  | 5.58   |  |
| + | 2 COMBINED AT | Com31A      | 3078. | 56.00  | 3067. | 2957. | 2523. | 229.51 |  |
| + | HYDROGRAPH AT | r<br>3R     | 478.  | 28.00  | 465.  | 335.  | 133.  | 4.47   |  |
| + | 2 COMBINED AT | Com31B      | 3109. | 55.00  | 3099. | 2992. | 2593. | 233.98 |  |
| + | ROUTED TO     | Rt32        | 2584. | 76.00  | 2581. | 2549. | 2348. | 233.98 |  |
| + | HYDROGRAPH AT | r<br>1R     | 1608. | 34.00  | 1582. | 1307. | 608.  | 16.89  |  |
| + | 2 COMBINED AT | Com32       | 2856. | 36.00  | 2840. | 2666. | 2600. | 250.87 |  |
| + | HYDROGRAPH AT | DIA3        | 1750. | 53.00  | 1744. | 1678. | 1345. | 0.00   |  |
| + | HYDROGRAPH AT | 17R         | 458.  | 33.00  | 451.  | 369.  | 170.  | 6.47   |  |
| + | 2 COMBINED AT | Com33A      | 1909. | 48.00  | 1905. | 1872. | 1474. | 6.47   |  |
| + | HYDROGRAPH AT | 23R         | 1709. | 83.00  | 1707. | 1681. | 1454. | 94.54  |  |
| + | 2 COMBINED AT | Com33B      | 3103. | 67.00  | 3099. | 3020. | 2747. | 101.01 |  |
| + | ROUTED TO     | LSV         | 1158. | 149.00 | 1158. | 1155. | 1132. | 101.01 |  |

### SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAQ ELEMENT PEAK TIME TO **WILTOV** יזיכו PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MTN) (CFS) (MIN) (IN) 60.00 175.66 4380.00 1.08 60.00 175.66 4380 00 1.08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1056E+04 EXCESS=0.0000E+00 OUTFLOW=0.1056E+04 BASIN STORAGE=0.1018E-01 PERCENT ERROR= 2R MANE 60.00 327.51 2460.00 1.18 60.00 327.51 2460.00 1 18 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1777E+04 EXCESS=0.0000E+00 OUTFLOW=0.1776E+04 BASIN STORAGE=0.3912E-01 PERCENT ERROR= 0.0 3R MANE 60.00 1329.41 3120.00 1.48 60.00 1329.41 3120.00 1.48 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7334E+04 EXCESS=0.0000E+00 OUTFLOW=0.7333E+04 BASIN STORAGE=0.3812E-01 PERCENT ERROR= 0.0 3R MANE 60.00 183.40 2520.00 1.68 60.00 183.40 2520.00 1.68 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5506E+03 EXCESS=0.0000E+00 OUTFLOW=0.5498E+03 BASIN STORAGE=0.5648E-02 PERCENT ERROR= 0.1 SAROUT MANE 48.00 1081.04 4272.00 60.00 1080.84 4260.00 2.44 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5000E+04 EXCESS=0.0000E+00 OUTFLOW=0.5004E+04 BASIN STORAGE=0.4968E+00 PERCENT ERROR= -0.15**A1RT** MANE 60.00 1087.03 4680.00 2.20 60.00 1087.03 4680.00 2.20 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5164E+04 EXCESS=0.0000E+00 OUTFLOW=0.5163E+04 BASIN STORAGE=0.2022E+01 PERCENT ERROR= 0.0 4 AROUT MANE 33.00 1011.01 3960.00 1.80 60.00 1011.01 3960.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2946E+04 EXCESS=0.0000E+00 OUTFLOW=0.2946E+04 BASIN STORAGE=0.1572E+00 PERCENT ERROR= 4A1ROU MANE 18.00 1009.21 4140.00 1.89 60.00 1009.21 4140.00 1.89 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3835E+04 EXCESS=0.0000E+00 OUTFLOW=0.3834E+04 BASIN STORAGE=0.2044E+00 PERCENT ERROR= 0.0 4AABRT MANE 12.00 1147.06 1932.00 1.88 60.00 1144.65 1920.00 1.88 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4351E+04 EXCESS=0.0000E+00 OUTFLOW=0.4354E+04 BASIN STORAGE=0.8935E+00 PERCENT ERROR= ~0.1 1 RR MANE 60.00 768.80 4200.00 4.32 60.00 768.80 4200.00 4.32 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4607E+04 EXCESS=0.0000E+00 OUTFLOW=0.4607E+04 BASIN STORAGE=0.7847E-02 PERCENT ERROR= 53.32 1674.43 3838.77 3.45 60.00 2BR MANE 1674 37 3840 00 3.45 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.9971E+04 EXCESS=0.0000E+00 OUTFLOW=0.9972E+04 BASIN STORAGE=0.1659E-01 PERCENT ERROR= 0.0 3BR MANE 38.36 2228.20 3989.46 3.31 60.00 2228.00 3960.00 3.31

INUITY SUMMARY (AC-FT) - INFLOW=0.1402E+05 EXCESS=0.0000E+00 OUTFLOW=0.1402E+05 BASIN STORAGE=0.3455E+00 PERCENT ERROR=

0.0

|              | 4BR     | MANE    | 46.65      | 2700.01     | 3872.27       | 3.41       | 60.00     | 2699.99     | 3900.00    | 3.41                    |     |
|--------------|---------|---------|------------|-------------|---------------|------------|-----------|-------------|------------|-------------------------|-----|
| CONTINUITY S | UMMARY  | (AC-FT) | - INFLOW=0 | 1646E+05 E  | EXCESS=0.0000 | E+00 OUTFL | OW=0.1646 | E+05 BASIN  | STORAGE=0. | 4912E+00 PERCENT ERROR= | 0.0 |
|              | 8BR     | MANE    | 60.00      | 3204.94     | 4080.00       | 3.49       | 60.00     | 3204.94     | 4080.00    | 3.49                    |     |
| CONTINUITY S | SUMMARY | (AC-FT) | ~ INFLOW=0 | 2084E+05 E  | EXCESS=0.0000 | E+00 OUTFL | ow=0.2084 | LE+05 BASIN | STORAGE=0. | 1453E+01 PERCENT ERROR= | 0.0 |
|              | 9R      | MANE    | 60.00      | 5965.77     | 4440.00       | 2.09       | 60.00     | 5965.77     | 4440.00    | 2.09                    |     |
| CONTINUITY S | SUMMARY | (AC-FT) | - INFLOW=0 | .4731E+05 E | EXCESS=0.0000 | E+00 OUTFL | OW=0.4731 | LE+05 BASIN | STORAGE=0. | 1721E+02 PERCENT ERROR= | 0.0 |
|              | Rt24    | MANE    | 60.00      | 46.61       | 2640.00       | 0.38       | 60.00     | 46.61       | 2640.00    | 0.38                    |     |
| CONTINUITY S | SUMMARY | (AC-FT) | - INFLOW=0 | 9694E+02 E  | EXCESS=0.0000 | E+00 OUTFL | OW=0.9480 | E+02 BASIN  | STORAGE=0. | 3377E+00 PERCENT ERROR= | 1.9 |
|              | Rt25    | MANE    | 60.00      | 1050.06     | 2940.00       | 1.93       | 60.00     | 1050.06     | 2940.00    | 1.93                    |     |
| CONTINUITY S | SUMMARY | (AC-FT) | - INFLOW=0 | .3869E+04 E | EXCESS=0.0000 | E+00 OUTFL | ow≃0.3861 | LE+04 BASIN | STORAGE=0. | 5026E+00 PERCENT ERROR≃ | 0.2 |

|   | PLAN | AN 1 ELEVATION STORAGE OUTFLOW |                                  | INITIAL VALUE<br>135.00<br>0.<br>0. |                             | SPILLWAY CRE:<br>140.67<br>1200.<br>0.   | 1                             | OF DAM<br>40.82<br>1348.<br>325.  |                             |
|---|------|--------------------------------|----------------------------------|-------------------------------------|-----------------------------|--|-------------------------------|-----------------------------------|-----------------------------|
|   |      | RATIO<br>OF<br>PMF             | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM        | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS                | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00                           |                                  |                                     |                             | 1081.<br>EACH ANALYSIS<br>STEP USED D    |                               |                                   | 0.00                        |
|   | PLAN | 1                              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115                      |                             | SPILLWAY CRE<br>116.80<br>974.<br>0.     | 1                             | OF DAM<br>17.20<br>1190.<br>1346. |                             |
|   |      | RATIO<br>OF<br>PMF             | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM        | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS                | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00                           |                                  |                                     |                             | 1088.<br>EACH ANALYSIS<br>STEP USED D    |                               |                                   | 0.00                        |
|   | PLAN | 1                              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160                      |                             | SPILLWAY CRE<br>171.74<br>2155.<br>0.    | 1                             | OF DAM<br>71.83<br>2217.<br>38.   |                             |
|   |      | RATIO<br>OF<br>PMF             | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM        | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS                | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00                           |                                  |                                     |                             | 1012.<br>EACH ANALYSIS<br>STEP USED D    |                               |                                   | 0.00                        |
|   | PLAN | 1                              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140                      | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRE<br>141.00<br>495.<br>0.     |                               | OF DAM<br>41.11<br>549.<br>439.   |                             |
|   |      | RATIO<br>OF<br>PMF             | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM        | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS                | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00                           |                                  |                                     |                             | 1010.<br>REACH ANALYSIS<br>E STEP USED D |                               |                                   | 0.00                        |
|   | PLAN | 1                              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110                      | .00<br>0.<br>0.             | SPILLWAY CRE<br>113.48<br>330.<br>0.     |                               | OF DAM<br>13.65<br>346.<br>98.    |                             |
|   |      | RATIO<br>OF<br>PMF             | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM        | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS                | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |

0.00

30.00

1.00

114.19

0.54

397.

1180.

106.00

### **HEC-1 MODEL**

# PROPOSED CONDITIONS 25% DIVERSION

**500-YEAR MODEL** 

| * | LOOD HYDROGRAPH PACKAGE (HEC-1) | * |
|---|---------------------------------|---|
| * | MAY 1991                        | * |
| * | VERSION 4.0.1E                  | 4 |
| * | Lahey F77L-EM/32 version 5.01   | * |
| * | Dodson & Associates, Inc.       | * |
| * | RUN DATE 11/12/01 TIME 13:29:38 | 4 |
|   |                                 |   |

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

\*\*\*\*\*\*\*\*\*

| x   | х    | XXXXXXX | XX | XXX |       | х   |
|-----|------|---------|----|-----|-------|-----|
| х   | x    | х       | x  | х   |       | XX  |
| х   | x    | x       | x  |     |       | Х   |
| XXX | XXXX | XXXX    | x  |     | XXXXX | х   |
| х   | х    | x       | x  |     |       | X   |
| Х   | X    | x       | х  | х   |       | X   |
| x   | x    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRANT? VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
             ID......1.....2.....3......4.....5.....6......7....8......9.....10
                  Hidalgo County Flood Insurance Study
                  Job No. 11-00389-002
                  File Name: Deten500.DAT
                                          Proposed with Detention Conditions
             * 500-year Rain-fall Future
                                          Future Development
             * HEC-1 model for the North-West main drain area
               Model sequence is as follows:
              * revised rainfall from USGS report 98-4044
               REVISED ON TYPE I ANTECEDANT
               REVISED LAG BASED ON REVISED CN I
               IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
             * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
             ID
                  West Main drain area
  2
             ΙD
                   500-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  3
             IT
                    60 1JAN01
                                  0 300
             IO
                     5
             * Start calculating hydrograph for the sub water sheds
             * that drain to the West Main drain.
             KK
                  SC-7A SUBWATER SHED
                  Compute hydrograph for sub-water shed SC-7A
             KM
             BA
  8
                   0.2
                                                6.21 7.66
                                                              8.83 10.75 12.35 13.23
             PH
                  5.721
                            60
 10
             W
                   53.5
             * **********
 11
             KK
                   1R
 12
             KM
                  Route hydrograph from head water to node 1 using Muskingum-Cunge Method
 13
             RD
                                        19200 0.0002
 14
             RC
                   0.08
                          0.03
                                 0.08
                                                         217
                                 2917
                                                               4500
                                                3005
                                                                       5000
 15
             ЯX
                  1000
                          2500
                                         2994
                                                        3061
                         202.0 204.4 191.53 191.53
 16
             RY
                  203.5
                                                       204.5
                                                              199.9
                                                                      199.0
 17
                  SC-7B SUBWATER SHED
             ĸк
                 Compute hydrograph for sub-water shed SC-7B
 18
             KM
 19
             BA
                   9.82
                  5.282
 20
             LS
             UD
                  20.1
               ***********
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

|   |               | TIME IN HOURS, AREA IN SQUARE MILES |              |                 |            |              |            |               |                  |                      |
|---|---------------|-------------------------------------|--------------|-----------------|------------|--------------|------------|---------------|------------------|----------------------|
|   | OPERATION     | STATION                             | PEAK<br>FLOW | TIME OF<br>PEAK | AVERAGE FL | OW FOR MAXIM | NUM PERIOD | BASIN<br>AREA | MAXIMUM<br>STAGE | TIME OF<br>MAX STAGE |
| + |               |                                     |              |                 | 6-HOUR     | 24-HOUR      | 72-HOUR    | лша           | JIAGE            | MAN SINGE            |
| + | HYDROGRAPH AT | SC-7A                               | 615.         | 68.00           | 614.       | 598.         | 473.       | 18.40         |                  |                      |
|   | ROUTED TO     |                                     |              |                 |            |              |            |               |                  |                      |
| + |               | 1R                                  | 614.         | 71.00           | 613.       | 596.         | 473.       | 18.40         |                  |                      |
| + | HYDROGRAPH AT | SC-7B                               | 939.         | 35.00           | 925.       | 771.         | 365.       | 9.82          |                  |                      |
| + | 2 COMBINED AT | 10                                  | 1090         | 36.00           | 1072       | 070          | 260        | 20.00         |                  |                      |
| T | ROUTED TO     | 1C                                  | 1080.        | 36.00           | 1072.      | 970.         | 760.       | 28.22         |                  |                      |
| + | NOOTED TO     | 2R                                  | 1059.        | 43.00           | 1053.      | 963.         | 756.       | 28.22         |                  |                      |
| + | HYDROGRAPH AT | SC-7C                               | 1667.        | 42.00           | 1654.      | 1492.        | 838.       | 23.00         |                  |                      |
|   | HYDROGRAPH AT |                                     |              |                 |            |              |            |               |                  |                      |
| + |               | SC-6A                               | 1773.        | 65.00           | 1771.      | 1717.        | 1327.      | 41.66         |                  |                      |
| + | 3 COMBINED AT | 20                                  | 3910.        | 47.00           | 3889.      | 3680.        | 2849.      | 92.88         |                  |                      |
| + | ROUTED TO     | 3R                                  | 3859.        | 53.00           | 3843.      | 3654.        | 2841.      | 92.88         |                  |                      |
| • | HYDROGRAPH AT | JR                                  | 3629.        | 33.00           | 3043.      | 3034.        | 2041.      | 92.00         |                  |                      |
| + |               | SC-6B                               | 967.         | 37.00           | 956.       | 824.         | 414.       | 6.58          |                  |                      |
| + | HYDROGRAPH AT | SC-7D                               | 515.         | 40.00           | 511.       | 454.         | 245.       | 6.15          |                  |                      |
|   | ROUTED TO     |                                     |              |                 |            |              |            | ~             |                  |                      |
| + |               | 3R                                  | 507.         | 41.00           | 502.       | 447.         | 244.       | 6.15          |                  |                      |
| + | 3 COMBINED AT | 3C                                  | 4804.        | 48.00           | 4783.      | 4517.        | 3425.      | 105.61        |                  |                      |
| + | ROUTED TO     | 4R                                  | 4288.        | 59.00           | 4276.      | 4123.        | 3315.      | 105.61        |                  |                      |
| • | HYDROGRAPH AT | 4A                                  | 4200.        | 39.00           | 4270.      | 4123.        | 3313.      | 103.61        |                  |                      |
| + |               | SC5A                                | 2193.        | 65.00           | 2190.      | 2125.        | 1649.      | 38.43         |                  |                      |
| + | ROUTED TO     | 5ACANA                              | 2190.        | 67.00           | 2187.      | 2121.        | 1587.      | 38.43         |                  |                      |
| + |               |                                     |              |                 |            |              |            |               | 141.13           | 67.00                |
| + | ROUTED TO     | 5AROUT                              | 2191.        | 69.00           | 2187.      | 2121.        | 1585.      | 38.43         |                  |                      |
|   | HYDROGRAPH AT | SC5A1                               | 1206.        | 29.00           | 1176.      | 871.         | 357.       | 5.64          |                  |                      |
| + | 2 COMBINED AT | SCJAI                               | 1200.        | 29.00           | 11/0.      | 0/1.         | 337.       | 3.04          |                  |                      |
| + | 5 664.54.125  | 5AA1                                | 2218.        | 67.00           | 2215.      | 2155.        | 1612.      | 44.07         |                  |                      |
| + | ROUTED TO     | 5A1CAN                              | 2217.        | 68.00           | 2214.      | 2154.        | 1606.      | 44.07         |                  |                      |
| + |               |                                     |              |                 |            |              |            |               | 117.30           | 68.00                |
| + | ROUTED TO     | 5A1RT                               | 2217.        | 72.00           | 2213.      | 2153.        | 1602.      | 44.07         |                  |                      |
|   | HYDROGRAPH AT | COED                                | 1004         | 27 00           | 1000       | 1340         | E24        | 0.00          |                  |                      |
| + | 2 COMBINED AT | SC5B                                | 1984.        | 27.00           | 1923.      | 1342.        | 524.       | 9.02          |                  |                      |
| + | Z COMBINED AT | 4C1                                 | 2231.        | 71.00           | 2228.      | 2169.        | 1655.      | 53.09         |                  |                      |
|   | HYDROGRAPH AT |                                     |              |                 |            |              |            |               |                  |                      |

| + |               | SC-4A      | 2429.  | 51.00  | 2422.  | 2287.   | 1525. | 30.73  |        |       |
|---|---------------|------------|--------|--------|--------|---------|-------|--------|--------|-------|
| ÷ | ROUTED TO     | 4ACANA     | 2399,  | 55.00  | 2382.  | 2168.   | 1250. | 30.73  | 172.70 | 55.00 |
| + | ROUTED TO     | 4AROUT     | 2399.  | 56.00  | 2381.  | 2164.   | 1248. | 30.73  |        |       |
| + | HYDROGRAPH AT | SC-4A1     | 1978.  | 24.00  | 1899.  | 1215.   | 448.  | 7.34   |        |       |
| + | 2 COMBINED AT | SC4AA1     | 2435.  | 56.00  | 2418.  | 2194.   | 1470. | 38.07  |        |       |
| ÷ | ROUTED TO     | 4A1CAN     | 2431.  | 56.00  | 2414.  | 2190.   | 1437. | 38.07  | 141.34 | 56.00 |
| + | ROUTED TO     | 4A1ROU     | 2429.  | 58.00  | 2413.  | 2187.   | 1432. | 38.07  |        |       |
| + | HYDROGRAPH AT | SC-4B      | 1961.  | 20.00  | 1782.  | 870.    | 296.  | 5.44   |        |       |
| + | 2 COMBINED AT | SC4AAB     | 3037.  | 25.00  | 2585.  | 2187.   | 1617. | 43.51  |        |       |
| ÷ | ROUTED TO     | 4BCANA     | 3043.  | 26.00  | 2558.  | 2185.   | 1599. | 43.51  | 114.67 | 26.00 |
| + | ROUTED TO     | 4AABRT     | 2873.  | 28.00  | 2545.  | 2177.   | 1594. | 43.51  |        |       |
| + | HYDROGRAPH AT | SC-4B1     | 1436.  | 26.00  | 1385.  | 937.    | 358.  | 6.07   |        |       |
| + | 2 COMBINED AT | SC-4       | 4249.  | 27.00  | 3822.  | 2510.   | 1911. | 49.58  |        |       |
| + | 3 COMBINED AT | 4C2        | 8788.  | 61.00  | 8750.  | 8195.   | 6657. | 208.28 |        |       |
| + | ROUTED TO     | 5R         | 7553.  | 77.00  | 7541.  | 7374.   | 6208. | 208.28 |        | •     |
| • | HYDROGRAPH AT | SC-3       | 2698.  | 76.00  | 2695.  | . 2645. | 2224. | 56.44  |        |       |
| + | 2 COMBINED AT | 5 <i>C</i> | 10250. | 76.00  | 10236. | 10019.  | 8414. | 264.72 |        |       |
| + | DIVERSION TO  | DIV1       | 4650.  | 76.00  | 4644.  | 4555.   | 3845. | 264.72 |        |       |
| + | HYDROGRAPH AT | DIV1       | 5600.  | 76.00  | 5591.  | 5464.   | 4568. | 264.72 |        |       |
| + | ROUTED TO     | 6R         | 4790.  | 104.00 | 4785.  | 4722.   | 4298. | 264.72 |        |       |
| + | HYDROGRAPH AT | SC-3B      | 556.   | 49.00  | 554.   | 518.    | 330.  | 6.71   |        |       |
| + | 2 COMBINED AT | 6C         | 4853.  | 102.00 | 4849.  | 4788.   | 4392. | 271.43 |        |       |
| + | ROUTED TO     | 7R         | 4756.  | 111.00 | 4752.  | 4701.   | 4350. | 271.43 |        |       |
| + | HYDROGRAPH AT | SC-2       | 412.   | 71.00  | 412.   | 402.    | 326.  | 11.48  |        |       |
| + | 2 COMBINED AT | 7C         | 4959.  | 108.00 | 4955.  | 4909.   | 4582. | 282.91 |        |       |
| 4 | ROUTED TO     | 8R         | 4843.  | 123.00 | 4840.  | 4801.   | 4518. | 282.91 |        |       |
|   | HYDROGRAPH AT |            |        |        |        |         |       |        |        |       |

| +        |               | SC-1       | 648.   | 52.00  | 647.   | 613.   | 417.   | 7.07   |
|----------|---------------|------------|--------|--------|--------|--------|--------|--------|
| +        | 2 COMBINED AT | 8C1        | 4893.  | 122.00 | 4891.  | 4854.  | 4601.  | 289.98 |
| +        | HYDROGRAPH AT | SC-8       | 1392.  | 67.00  | 1390.  | 1352.  | 1071.  | 19.99  |
| +        | ROUTED TO     | 1BR        | 1390.  | 70.00  | 1388.  | 1350.  | 1070.  | 19.99  |
| +        | HYDROGRAPH AT | SM-18      | 1262.  | 70.00  | 1261.  | 1230.  | 990.   | 27.11  |
| +        | 2 COMBINED AT | 1BC1       | 2652.  | 70.00  | 2649.  | 2580.  | 2060.  | 47.10  |
| +        | HYDROGRAPH AT | SM-17      | 839.   | 50.00  | 836.   | 787.   | 517.   | 7.03   |
| +        | 2 COMBINED AT | 1BC2       | 3271.  | 63.00  | 3260.  | 3158.  | 2523.  | 54.13  |
| +        | ROUTED TO     | 2BR        | 3269.  | 64.00  | 3259.  | 3158.  | 2522.  | 54.13  |
| +        | HYDROGRAPH AT | SM-16      | 1199.  | 75.00  | 1198.  | 1174.  | 980.   | 25.18  |
| +        | 2 COMBINED AT | 2BC        | 4412.  | 67.00  | 4403.  | 4281.  | 3483.  | 79.31  |
| +        | ROUTED TO     | 3BR        | 4410.  | 68.00  | 4401.  | 4278.  | 3482.  | 79.31  |
| +        | HYDROGRAPH AT | SM-15      | 963.   | 54.00  | 961.   | 915.   | 638.   | 11.10  |
| +        | 2 COMBINED AT | 3BC        | 5237.  | 65.00  | 5224.  | 5068.  | 4084.  | 90.41  |
| +        | ROUTED TO     | 4BR        | 5173.  | 69.00  | 5162.  | 5016.  | 4069.  | 90.41  |
| +        | HYDROGRAPH AT | SM-14      | 1056.  | 82.00  | 1055.  | 1039.  | 900.   | 21.60  |
| +        | 2 COMBINED AT | 4BC        | 6165.  | 71.00  | 6154.  | 5991.  | 4919.  | 112.01 |
| +        | ROUTED TO     | RE8        | 6163.  | 71.00  | 6151.  | 5989.  | 4917.  | 112.01 |
| +        | HYDROGRAPH AT | SM-13      | 704.   | 88.00  | 703.   | 694.   | 613.   | 22.25  |
| +        | 2 COMBINED AT | 8C2        | 6802.  | 73.00  | 6790.  | 6619.  | 5484.  | 134.26 |
| +        | 2 COMBINED AT | 8C3        | 10858. | 73.00  | 10848. | 10692. | 9655.  | 424.24 |
| +        | ROUTED TO     | 9 <b>R</b> | 10798. | 82.00  | 10787. | 10636. | 9626.  | 424.24 |
| <b>+</b> | HYDROGRAPH AT | 295        | 1331.  | 41.00  | 1320.  | 1176.  | 638.   | 12.28  |
| +        | 2 COMBINED AT | Com9A      | 10949. | 81.00  | 10939. | 10790. | 9811.  | 436.52 |
| +        | HYDROGRAPH AT | 285        | 1901.  | 53.00  | 1897.  | 1797.  | 1220.  | 25.91  |
| +        | 2 COMBINED AT | Com9B      | 11949. | 74.00  | 11937. | 11770. | 10721. | 462.43 |
| +        | ROUTED TO     | Rt10       | 11514. | 87.00  | 11503. | 11344. | 10289. | 462.43 |
|          | DIVERSION TO  |            |        |        |        |        |        |        |

| + |               | DIV2         | 2000.  | 87.00  | 2000.  | 2000. | 2000. | 462.43 |  |
|---|---------------|--------------|--------|--------|--------|-------|-------|--------|--|
| + | HYDROGRAPH AT | DIA3         | 9514.  | 87.00  | 9503.  | 9344. | 8289. | 462.43 |  |
| + | HYDROGRAPH AT | 275          | 2303.  | 29.00  | 2247.  | 1662. | 679.  | 12.15  |  |
| + | 2 COMBINED AT | Com10A       | 9519.  | 86.00  | 9507   | 9350. | 8302. | 474.58 |  |
| + | HYDROGRAPH AT | 26S          | 2171.  | 27.00  | 2110.  | 1509. | 598.  | 10.55  |  |
| + | HYDROGRAPH AT | 2 <b>4</b> S | 746.   | 29.00  | 728.   | 538.  | 220.  | 3.83   |  |
| + | 3 COMBINED AT | Com10B       | 9521.  | 86.00  | 9509.  | 9354. | 8315. | 488.96 |  |
| + | ROUTED TO     | Rt11         | 9215.  | 97.00  | 9205.  | 9072. | 8186. | 488.96 |  |
| + | HYDROGRAPH AT | 22 <b>S</b>  | 1089.  | 35.00  | 1074.  | 898.  | 427.  | 7.55   |  |
| + | 2 COMBINED AT | Com11A       | 9227.  | 97.00  | 9218.  | 9086. | 8205. | 496.51 |  |
| + | HYDROGRAPH AT | 205          | 1266.  | 38.00  | 1254.  | 1098. | 570.  | 10.57  |  |
| + | 2 COMBINED AT | Com11B       | 9267.  | 96.00  | 9257.  | 9127. | 8258. | 507.08 |  |
| + | ROUTED TO     | Rt12         | 9223.  | 100.00 | 9214.  | 9084. | 8232. | 507.08 |  |
| + | HYDROGRAPH AT | 18S          | 800.   | 30.00  | 785.   | 608.  | 261.  | 4.69   |  |
| + | 2 COMBINED AT | Com12        | 9224.  | 100.00 | 9214.  | 9085. | 8235. | 511.77 |  |
| + | ROUTED TO     | Rt13         | 9205.  | 102.00 | 9196.  | 9067. | 8227. | 511.77 |  |
| + | HYDROGRAPH AT | 16S          | 1039.  | 38.00  | 1027.  | 895.  | 460.  | 9.60   |  |
| + | 2 COMBINED AT | Com13A       | 9225.  | 102.00 | 9216.  | 9087. | 8254. | 521.37 |  |
| + | HYDROGRAPH AT | 15 <b>s</b>  | 1774.  | 51.00  | 1769.  | 1665. | 1096. | 25.08  |  |
| + | 2 COMBINED AT | Com13B       | 9503.  | 100.00 | 9495.  | 9368. | 8815. | 546.45 |  |
| + | ROUTED TO     | Rt14         | 9319.  | 109.00 | 9312.  | 9210. | 8677. | 546.45 |  |
| + | HYDROGRAPH AT | 138          | 1504.  | 47.00  | 1497.  | 1389. | 861.  | 19.76  |  |
| + | 2 COMBINED AT | Com14A       | 9904.  | 55.00  | 9875.  | 9502. | 9154. | 566.21 |  |
| + | HYDROGRAPH AT | 1 <b>4</b> S | 1161.  | 37.00  | 1148.  | 993.  | 503.  | 9.53   |  |
| + | 2 COMBINED AT | Coml4B       | 10405. | 54.00  | 10375. | 9984. | 9341. | 575.74 |  |
| + | ROUTED TO     | Rt15         | 10085. | 60.00  | 10056. | 9711. | 9265. | 575.74 |  |
| 4 | HYDROGRAPH AT | 115          | 1846.  |        |        |       |       | 8.20   |  |
|   | 2 COMBINED AT |              |        |        |        |       |       |        |  |

| + |               | Com15      | 10123. | 60.00 | 10095. | 9753.  | 9278. | 583.94 |
|---|---------------|------------|--------|-------|--------|--------|-------|--------|
| + | ROUTED TO     | Rt16       | 9694.  | 68.00 | 9673.  | 9414.  | 9177. | 583.94 |
| + | HYDROGRAPH AT | 7 <b>s</b> | 2078.  | 53.00 | 2072.  | 1962.  | 1327. | 29.41  |
| + | 2 COMBINED AT | Com16      | 11383. | 65.00 | 11351. | 10934. | 9982. | 613.35 |
| + | ROUTED TO     | Rt17       | 10828. | 73.00 | 10810. | 10600. | 9915. | 613.35 |
| + | HYDROGRAPH AT | 6S         | 2125.  | 27.00 | 2061.  | 1435.  | 558.  | 9.21   |
| + | 2 COMBINED AT | Com17      | 10840. | 73.00 | 10823. | 10612. | 9923. | 622.56 |
| + | ROUTED TO     | Rt18       | 10615. | 80.00 | 10594. | 10352. | 9803. | 622.56 |
| + | HYDROGRAPH AT | 45         | 3358.  | 34.00 | 3304.  | 2730.  | 1272. | 22.35  |
| + | 2 COMBINED AT | Com18A     | 10731. | 79.00 | 10712. | 10460. | 9863. | 644.91 |
| + | HYDROGRAPH AT | 3s         | 979.   | 30.00 | 958.   | 733.   | 310.  | 4.49   |
| + | 2 COMBINED AT | Com18B     | 10743. | 79.00 | 10723. | 10471. | 9869. | 649.40 |
| + | ROUTED TO     | Rt19       | 10712. | 82.00 | 10692. | 10446. | 9859. | 649.40 |
| + | HYDROGRAPH AT | 28         | 1786.  | 23.00 | 1702.  | 1041.  | 376.  | 5.35   |
| + | 2 COMBINED AT | Com19A     | 10712. | 82.00 | 10692. | 10446. | 9859. | 654.75 |
| + | HYDROGRAPH AT | 1s         | 1221.  | 34.00 | 1206.  | 1007.  | 479.  | 7.47   |
| + | 2 COMBINED AT | Com19B     | 10850. | 36.00 | 10788. | 10486. | 9883. | 662.22 |
| + | HYDROGRAPH AT | DIV1       | 4650.  | 76.00 | 4644.  | 4555.  | 3845. | 0.00   |
| + | HYDROGRAPH AT | SC-3A      | 334.   | 72.00 | 334.   | 326.   | 268,  | 5.87   |
| + | 2 COMBINED AT | 20C        | 4983.  | 76.00 | 4976.  | 4878.  | 4114. | 5.87   |
| + | ROUTED TO     | 21R        | 4512.  | 92.00 | 4506.  | 4424.  | 3775. | 5.87   |
| + | HYDROGRAPH AT | 29aR       | 540.   | 36.00 | 534.   | 456.   | 225.  | 4.84   |
| + | 2 COMBINED AT | Com21A     | 4526.  | 92.00 | 4520.  | 4439.  | 3803. | 10.71  |
| + | HYDROGRAPH AT | 29R        | 1279.  | 46.00 | 1272.  | 1173.  | 709.  | 18.03  |
| + | 2 COMBINED AT | Com21B     | 4711.  | 89.00 | 4707.  | 4633.  | 4129. | 28.74  |
| + | ROUTED TO     | 22R        | 4675.  | 94.00 | 4670.  | 4599.  | 4112. | 28.74  |
| + | HYDROGRAPH AT | 28aR       | 345.   | 26.00 | 333.   | 226.   | 86.   | 2.35   |
|   | 2 COMBINED AT |            |        |       |        |        |       |        |
|   |               |            |        |       |        |        |       |        |

|               | Com22   | 4675.  | 94.00  | 4670.  | 4599.   | 4114.   | 31.09  |  |
|---------------|---|--|--|--|---|---|--|--|
| ROUTED TO     | Rt23  | 4145.  | 113.00   | 4142.  | 4095.   | 3713.   | 31.09  |  |
| HYDROGRAPH AT | 24R   | 1527.  | 49.00  | 1521.  | 1422.   | 908.  | 22.22  |  |
| 2 COMBINED AT | Com23A  | 4264.  | 110.00   | 4262.  | 4222.   | 3911.   | 53.31  |  |
| HYDROGRAPH AT | 28R   | 359.   | 31.00  | 352.   | 270.  | 114.  | 4.68   |  |
| ROUTED TO     | Rt24  | 340.   | 36.00  | 333.   | 257.  | 113.  | 4.68   |  |
| HYDROGRAPH AT | 25R   | 925.   | 37.00  | 913.   | 785.  | 392.  | 8.99   |  |
| HYDROGRAPH AT | 27 <b>R</b>   | 1722.  | 49.00  | 1716.  | 1602.   | 1018.   | 23.93  |  |
| 3 COMBINED AT | Com24   | 2734.  | 41.00  | 2717.  | 2481.   | 1515.   | 37.60  |  |
| ROUTED TO     | Rt25  | 2703.  | 45.00  | 2684.  | 2452.   | 1506.   | 37.60  |  |
| HYDROGRAPH AT | 22R   | 1763.  | 45.00  | 1755.  | 1617.   | 975.  | 18.04  |  |
| 2 COMBINED AT | Com25   | 4466.  | 45.00  | 4439.  | 4066.   | 2469.   | 55.64  |  |
| HYDROGRAPH AT | 19R   | 971.   | 40.00  | 962.   | 8 <b>49</b> .   | 450.  | 11.18  |  |
| 3 COMBINED AT | Com23B  | 8322.  | 47.00  | 8281.  | 7810.   | 6131.   | 120.13   |  |
| ROUTED TO     | Rt26A   | 8280.  | 48.00  | 8240.  | 7753.   | 6094.   | ~  |  |
| DIVERSION TO  | DIV3  | 349.   | 48.00  | 348.   |   |   |  |  |
| HYDROGRAPH AT | DIV3  | 7931.  |  |  |   |   |  |  |
| ROUTED TO     | Rt26B   |  |  |  |   |   |  |  |
| HYDROGRAPH AT |   |  |  |  |   |   |  |  |
| 2 COMBINED AT |   |  |  |  |   |   |  |  |
| ROUTED TO     |   |  |  |  |   |   |  |  |
| HYDROGRAPH AT |   |  |  |  |   |   |  |  |
| 2 COMBINED AT |   |  |  |  |   |   |  |  |
| HYDROGRAPH AT |   |  |  |  |   |   |  |  |
| ROUTED TO     |   |  |  |  |   |   |  |  |
| 2 COMBINED AT |   |  |  |  |   |   |  |  |
| ROUTED TO     |   |  |  |  |   |   |  |  |
| HYDROGRAPH AT | Rt28  | 5581.  | 85.00  | 5578.  | 5533.   | 5277.   | 159.65   |  |
|               | HYDROGRAPH AT  2 COMBINED AT  HYDROGRAPH AT  ROUTED TO  HYDROGRAPH AT  3 COMBINED AT  ROUTED TO  HYDROGRAPH AT  2 COMBINED AT  ROUTED TO  DIVERSION TO  HYDROGRAPH AT  2 COMBINED AT  ROUTED TO  HYDROGRAPH AT  ROUTED TO  HYDROGRAPH AT  ROUTED TO  HYDROGRAPH AT  ROUTED TO  12 COMBINED AT  ROUTED TO  2 COMBINED AT  ROUTED TO | HYDROGRAPH AT  24R  2 COMBINED AT Com23A  HYDROGRAPH AT 28R  ROUTED TO Rt24  HYDROGRAPH AT 25R  HYDROGRAPH AT Com24  ROUTED TO Rt25  HYDROGRAPH AT 22R  2 COMBINED AT Com25  HYDROGRAPH AT 19R  3 COMBINED AT Com23B  ROUTED TO Rt26A  DIVERSION TO DIV3  HYDROGRAPH AT DIV3  ROUTED TO Rt26B  HYDROGRAPH AT 20R  2 COMBINED AT Com26  ROUTED TO Rt26B  HYDROGRAPH AT 13R  2 COMBINED AT Com27A  HYDROGRAPH AT 14R  ROUTED TO Rt27B  ROUTED TO Rt27B | ROUTED TO  RE23 4145.  HYDROGRAPH AT 24R 1527.  2 COMBINED AT Com23A 4264.  HYDROGRAPH AT 28R 359.  ROUTED TO RE24 340.  HYDROGRAPH AT 25R 925.  HYDROGRAPH AT 27R 1722.  3 COMBINED AT Com24 2734.  ROUTED TO RE25 2703.  HYDROGRAPH AT 22R 1763.  2 COMBINED AT Com25 4466.  HYDROGRAPH AT 19R 971.  3 COMBINED AT Com23B 8322.  ROUTED TO RE26A 8280.  DIVERSION TO DIV3 349.  HYDROGRAPH AT DIV3 7931.  ROUTED TO RE26B 7719.  HYDROGRAPH AT 20R 2594.  2 COMBINED AT Com26 8759.  ROUTED TO RE27A 5426.  HYDROGRAPH AT 13R 1915.  2 COMBINED AT Com27A 5455.  HYDROGRAPH AT 14R 1148.  ROUTED TO RE27B 1361.  ROUTED TO RE27B 1361.  ROUTED TO RE27B 5667.  ROUTED TO RE27B 5667. | ROUTED TO RE23 4145. 113.00 HYDROGRAPH AT 24R 1527. 49.00 2 COMBINED AT Com23A 4264. 110.00 HYDROGRAPH AT 28R 359. 31.00 ROUTED TO RL24 340. 36.00 HYDROGRAPH AT 25R 925. 37.00 HYDROGRAPH AT 27R 1722. 49.00 3 COMBINED AT Com24 2734. 41.00 ROUTED TO RL25 2703. 45.00 HYDROGRAPH AT 22R 1763. 45.00 2 COMBINED AT Com25 4466. 45.00 HYDROGRAPH AT 19R 971. 40.00 3 COMBINED AT Com23B 8322. 47.00 ROUTED TO RL26A 8280. 48.00 DIVERSION TO DIV3 349. 48.00 HYDROGRAPH AT DIV3 7931. 48.00 ROUTED TO RL26B 7719. 53.00 HYDROGRAPH AT 20R 2594. 35.00 ROUTED TO RL26B 7719. 53.00 HYDROGRAPH AT 20R 2594. 35.00 ROUTED TO RL27A 5426. 78.00 ROUTED TO RL27A 5426. 78.00 HYDROGRAPH AT 13R 1915. 30.00 ROUTED TO RL27A 5455. 77.00 HYDROGRAPH AT 14R 1148. 37.00 ROUTED TO RL27B 1361. 36.00 2 COMBINED AT Com27B 5667. 76.00 ROUTED TO RL27B 1361. 36.00 2 COMBINED AT Com27B 5667. 76.00 | ROUTED TO  RE23 4145. 113.00 4142.  HYDROGRAPH AT 24R 1527. 49.00 1521.  2 COMBINED AT Com23A 4264. 110.00 4262.  HYDROGRAPH AT 26R 359. 31.00 352.  ROUTED TO RE24 340. 36.00 333.  HYDROGRAPH AT 25R 925. 37.00 913.  HYDROGRAPH AT 27R 1722. 49.00 1716.  3 COMBINED AT Com24 2734. 41.00 2717.  ROUTED TO RE25 2703. 45.00 2684.  HYDROGRAPH AT 12R 1763. 45.00 1755.  2 COMBINED AT Com25 4466. 45.00 4439.  HYDROGRAPH AT 19R 971. 40.00 962.  3 COMBINED AT Com23B 8322. 47.00 8281.  ROUTED TO RE26A 8280. 48.00 3240.  DIVERSION TO DIV3 349. 48.00 3240.  DIVERSION TO DIV3 7931. 48.00 7892.  ROUTED TO RE26B 7719. 53.00 7675.  HYDROGRAPH AT 20R 2594. 35.00 2555.  2 COMBINED AT Com26 8759. 50.00 8724.  ROUTED TO RE27A 5426. 78.00 5421.  HYDROGRAPH AT 13R 1915. 30.00 1875.  2 COMBINED AT Com27A 5455. 77.00 5451.  HYDROGRAPH AT 14R 1148. 37.00 1134.  ROUTED TO RE27B 1361. 36.00 1134.  ROUTED TO RE27B 1361. 36.00 1134. | ROUTED TO  RE23 4145. 113.00 4142. 4095.  HYDROGRAPH AT 24R 1527. 49.00 1521. 1422.  2 COMBINED AT Com23A 4264. 110.00 4262. 4222.  HYDROGRAPH AT 28R 359. 31.00 352. 270.  ROUTED TO RL24 340. 36.00 333. 257.  HYDROGRAPH AT 25R 925. 37.00 913. 785.  HYDROGRAPH AT 27R 1722. 49.00 1716. 1602.  3 COMBINED AT Com24 2734. 41.00 2717. 2481.  ROUTED TO RL25 2703. 45.00 2684. 2452.  HYDROGRAPH AT 22R 1763. 45.00 1755. 1617.  2 COMBINED AT Com25 4466. 45.00 4439. 4066.  HYDROGRAPH AT 19R 971. 40.00 962. 849.  3 COMBINED AT Com23B 8322. 47.00 8281. 7810.  ROUTED TO RL26A 8280. 48.00 8240. 7753.  DIVERSION TO DIV3 349. 48.00 348. 337.  HYDROGRAPH AT DIV3 7931. 48.00 7892. 7416.  ROUTED TO RL26B 7719. 53.00 7675. 7243.  NYDROGRAPH AT 20R 2594. 35.00 2555. 2145.  2 COMBINED AT Com26 8759. 50.00 8724. 8251.  ROUTED TO RL27A 5426. 78.00 5421. 5368.  HYDROGRAPH AT 13R 1915. 30.00 1875. 1447.  2 COMBINED AT Com27A 5455. 77.00 5451. 5396.  HYDROGRAPH AT 13R 1915. 30.00 1134. 978.  ROUTED TO RL27B 1361. 36.00 1134. 978.  ROUTED TO RL27B 5667. 76.00 5662. 5601.  ROUTED TO RL27B 5667. 76.00 5662. 5601. | ROUTED TO  RE23 4145. 113.00 4142. 4095. 3713.  HYDROGRAPH AT 24R 1527. 49.00 1521. 1422. 908.  2 COMBINED AT Com23A 4264. 110.00 4262. 4222. 3911.  HYDROGRAPH AT 28R 359. 31.00 352. 270. 114.  ROUTED TO RL24 340. 36.00 333. 257. 113.  HYDROGRAPH AT 25R 925. 37.00 913. 785. 392.  HYDROGRAPH AT 27R 1722. 49.00 1716. 1602. 1018.  3 COMBINED AT Com24 2734. 41.00 2717. 2481. 1515.  ROUTED TO RL25 2703. 45.00 2684. 2452. 1506.  HYDROGRAPH AT 22R 1763. 45.00 1755. 1617. 975.  2 COMBINED AT COM25 4466. 45.00 4439. 4066. 2469.  HYDROGRAPH AT 19R 971. 40.00 962. 849. 450.  3 COMBINED AT Com23B 8322. 47.00 8281. 7810. 6131.  ROUTED TO RL26A 8280. 48.00 348. 337. 273.  HYDROGRAPH AT DIV3 7931. 48.00 7892. 7416. 5821.  ROUTED TO RL26B 7719. 53.00 7675. 7243. 5774.  HYDROGRAPH AT 20R 2594. 35.00 2555. 2145. 1026.  ROUTED TO RL26B 7719. 53.00 7675. 7243. 5774.  HYDROGRAPH AT 20R 2594. 35.00 2555. 2145. 1026.  ROUTED TO RL26B 7719. 53.00 7675. 7243. 5774.  HYDROGRAPH AT 13R 1915. 30.00 18724. 8251. 6442.  ROUTED TO RL26B 7719. 53.00 5421. 5368. 5116.  HYDROGRAPH AT 13R 1915. 30.00 1875. 1447. 618.  2 COMBINED AT Com27A 5455. 77.00 5451. 5396. 5143.  HYDROGRAPH AT 14R 1148. 37.00 1134. 978. 491.  ROUTED TO RL27B 1361. 36.00 1134. 978. 5501. | NOTED TO R23 4145 113.00 4142 4095 3713 11.09  HYDROGRAPH AT 24R 1527 49.00 1521 1422 908 22.22  2 COMBINED AT Com23A 4264 110.00 4262 4222 3911 53.31  HYDROGRAPH AT 28R 359 31.00 352 270 114 4.68  ROUTED TO RL24 340 36.00 333 257 113 4.66  HYDROGRAPH AT 25R 925 37.00 913 765 392 8.99  HYDROGRAPH AT 27R 1722 49.00 1716 1602 1018 23.99  3 COMBINED AT Com24 2734 41.00 2717 2481 1515 37.60  ROUTED TO R25 2703 45.00 1755 1617 975 18.04  2 COMBINED AT 22R 1763 45.00 1755 1617 975 18.04  2 COMBINED AT 19R 971 40.00 962 849 450 11.18  3 COMBINED AT 19R 971 40.00 962 849 450 11.18  3 COMBINED AT 19R 971 40.00 8281 7810 6131 120.13  ROUTED TO R26A 8280 48.00 8281 7810 6131 120.13  ROUTED TO R26A 8280 48.00 8281 7810 6531 120.13  RYDROGRAPH AT DIV3 349 48.00 348 337 273 120.13  RYDROGRAPH AT DIV3 349 48.00 348 337 273 120.13  RYDROGRAPH AT DIV3 349 48.00 348 337 273 120.13  RYDROGRAPH AT DIV3 349 48.00 7892 7416 5821 120.13  RYDROGRAPH AT DIV3 7931 43.00 7892 7416 5821 120.13  RYDROGRAPH AT DIV3 7931 43.00 7892 7416 642 13.91  RYDROGRAPH AT DIV3 7931 53.00 7675 7243 5774 120.13  RYDROGRAPH AT DIV3 7931 53.00 7675 7243 5774 120.13  RYDROGRAPH AT COm26 8759 50.00 8724 8251 6442 138.91  RYDROGRAPH AT COm26 8759 50.00 8724 8251 6442 138.91  RYDROGRAPH AT COm26 8759 50.00 8724 8251 6442 138.91  RYDROGRAPH AT COm278 5455 77.00 5451 5368 516 138 7894  RYDROGRAPH AT COm278 5455 77.00 5451 5368 5163 130 150.41  HYDROGRAPH AT 19R 1915 30.00 1134 978 491 924  ROUTED TO R278 5455 77.00 5451 5396 5143 150.41  HYDROGRAPH AT 14R 1148 37.00 1134 978 491 924  ROUTED TO R278 5657 76.00 5662 5601 5308 159.65 |

| + |               | 11R    | 2168. | 25.00  | 2085. | 1348. | 499.  | 10.09  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|
| + | 2 COMBINED AT | Com28A | 5581. | 85.00  | 5578. | 5533. | 5280. | 169.74 |
| + | HYDROGRAPH AT | 8R     | 1676. | 26.00  | 1620. | 1094. | 415.  | 11.62  |
| + | 2 COMBINED AT | Com28B | 5581. | 85.00  | 5578. | 5533. | 5283. | 181.36 |
| + | ROUTED TO     | Rt29   | 5549. | 91.00  | 5547. | 5506. | 5272. | 181.36 |
| + | HYDROGRAPH AT | 10R    | 3150. | 33.00  | 3103. | 2545. | 1174. | 21.47  |
| + | 2 COMBINED AT | Com29  | 7345. | 35.00  | 7274. | 6549. | 5808. | 202.83 |
| + | ROUTED TO     | Rt30   | 6663. | 42.00  | 6607. | 6096. | 5667. | 202.83 |
| + | HYDROGRAPH AT | 6R     | 1597. | 43.00  | 1586. | 1436. | 815.  | 16.37  |
| + | 2 COMBINED AT | Com30A | 8259. | 42.00  | 8193. | 7501. | 6359. | 219.20 |
| + | HYDROGRAPH AT | 4R     | 825.  | 30.00  | 806.  | 615.  | 259.  | 4.73   |
| + | 2 COMBINED AT | Com30B | 8653. | 41.00  | 8585. | 7826. | 6499. | 223.93 |
| + | ROUTED TO     | Rt31   | 7950. | 48.00  | 7896. | 7340. | 6322. | 223.93 |
| + | HYDROGRAPH AT | 2R     | 1521. | 25.00  | 1461. | 955.  | 357.  | 5.58   |
| + | 2 COMBINED AT | Com31A | 8064. | 47.00  | 8005. | 7435. | 6364. | 229.51 |
| + | HYDROGRAPH AT | 3R     | 946.  | 28.00  | 921.  | 661.  | 263.  | 4.47   |
| + | 2 COMBINED AT | Com31B | 8227. | 47.00  | 8167. | 7573. | 6426. | 233.98 |
| + | ROUTED TO     | Rt32   | 6722. | 62.00  | 6707. | 6527. | 6049. | 233.98 |
| + | HYDROGRAPH AT | 1R     | 2905. | 34.00  | 2865. | 2365. | 1101. | 16.89  |
| + | 2 COMBINED AT | Com32  | 7234. | 58.00  | 7213. | 6981. | 6303. | 250.87 |
| + | HYDROGRAPH AT | DIV3   | 349.  | 48.00  | 348.  | 337.  | 273.  | 0.00   |
| + | HYDROGRAPH AT | 17R    | 954.  | 33.00  | 939.  | 768.  | 353.  | 6.47   |
| + | 2 COMBINED AT | Com33A | 1172. | 37.00  | 1149. | 994.  | 592.  | 6.47   |
| + | HYDROGRAPH AT | 23R    | 3628. | 82.00  | 3625. | 3570. | 3089. | 94.54  |
| + | 2 COMBINED AT | Com33B | 3878. | 81.00  | 3876. | 3833. | 3391. | 101.01 |
| + | ROUTED TO     | LSV    | 1554. | 139.00 | 1553. | 1545. | 1466. | 101.01 |
|   |               |        |       |        |       |       |       |        |

## SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL TIME TO ISTAO ELEMENT. רעד PEAK VOLUME DΤ PEAK TIME TO VOLUME PEAK PEAK (CFS) (MIN) (MTN) (IN) (MIN) (CFS) (MIN) (IN) 18 MANE 60.00 614.33 4260.00 3.76 60.00 614.33 4260.00 3.76 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3685E+04 EXCESS=0.0000E+00 OUTFLOW=0.3686E+04 BASIN STORAGE=0.8150E-02 PERCENT ERROR= 0.0 60.00 1059.05 2R MANE 2580.00 3.91 60.00 1059.05 2580.00 3.91 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5883E+04 EXCESS=0.0000E+00 OUTFLOW=0.5889E+04 BASIN STORAGE=0.2276E-01 PERCENT ERROR= 3R MANE 60.00 3859.20 3180.00 4.26 60.00 3859.20 3180.00 4.26 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2114E+05 EXCESS=0.0000E+00 OUTFLOW=0.2111E+05 BASIN STORAGE=0.1006E+00 PERCENT ERROR= 0 1 MANE 60.00 506.73 2460.00 60.00 506.73 2460.00 4.60 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1509E+04 EXCESS=0.0000E+00 OUTFLOW=0.1507E+04 BASIN STORAGE=0.5237E-02 PERCENT ERROR= 0.1 SAROUT MANE 60.00 2190.54 4140.00 5.53 60.00 2190.54 4140.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1132E+05 EXCESS=0.0000E+00 OUTFLOW=0.1133E+05 BASIN STORAGE=0.6137E+00 PERCENT ERROR= 60.00 2216.61 4320.00 SAIRT MANE 5.31 60.00 2216.61 4320.00 5.31 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1248E+05 EXCESS=0.0000E+00 OUTFLOW=0.1247E+05 BASIN STORAGE=0.2463E+01 PERCENT ERROR= 4AROUT MANE 39.00 2399.22 3354.00 4.92 60.00 2398.84 3360.00 4 92 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8063E+04 EXCESS=0.0000E+00 OUTFLOW=0.8066E+04 BASIN STORAGE=0.1845E+00 PERCENT ERROR= 0.0 4A1ROU MANE 33.00 2431.12 3465.00 5.04 60.00 2429.39 3480.00 5.05 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1024E+05 EXCESS=0.0000E+00 OUTFLOW=0.1024E+05 BASIN STORAGE=0.2400E+00 PERCENT ERROR= -0.1 15.00 2946.33 1650.00 5.04 60.00 2872.84 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1168E+05 EXCESS=0.0000E+00 OUTFLOW=0.1169E+05 BASIN STORAGE=0.1024E+01 PERCENT ERROR= 1 BR MANE 60.00 1389.67 4200.00 7.81 60.00 1389.67 4200.00 7.81 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8329E+04 EXCESS=0.0000E+00 OUTFLOW=0.8329E+04 BASIN STORAGE=0.1072E-01 PERCENT ERROR= 0.0 39.95 3269.23 3875.55 6.80 60.00 2BR MANE 3269 02 3840 00 6.80 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1964E+05 EXCESS=0.0000E+00 OUTFLOW=0.1964E+05 BASIN STORAGE=0.1748E-01 PERCENT ERROR= 0.0 4409.98 4081.26 6.59 60.00 4409.93 4080.00 41.65 6.59 3 BR MANE

INUITY SUMMARY (AC-FT) - INFLOW=0.2788E+05 EXCESS=0.0000E+00 OUTFLOW=0.2788E+05 BASIN STORAGE=0.7011E+00 PERCENT ERROR=

0.0

|                | 4BR   | MANE    | 56.09       | 5174.19    | 4151.03       | 6.68       | 60.00     | 5173.48     | 4140.00   | 6.68                  |          |
|----------------|-------|---------|-------------|------------|---------------|------------|-----------|-------------|-----------|-----------------------|----------|
| CONTINUITY SU  | MMARY | (AC-FT) | - INFLOW=0  | 3228E+05   | EXCESS=0.0000 | E+00 OUTFL | OW=0.322€ | DE+05 BASIN | STORAGE=0 | .1039E+01 PERCENT ERF | ROR= 0.2 |
|                | 8BR   | MANE    | 50.18       | 6163.49    | 4265.40       | 6.75       | 60.00     | 6162.93     | 4260.00   | 6.75                  |          |
| CONTINUITY SU  | MMARY | (AC-FT) | - INFLOW=0  | . 4031E+05 | EXCESS=0.0000 | E+00 OUTFL | OW=0.4031 | le+05 basin | STORAGE=0 | .2775E+01 PERCENT ERF | ROR= 0.0 |
|                | 9R    | MANE    | 60.00       | 10797.99   | 4920.00       | 4.23       | 60.00     | 10797.99    | 4920.00   | 4.23                  |          |
| CONTINUITY SUN | MMARY | (AC-FT) | - INFLOW=0  | .9587E+05  | EXCESS=0.0000 | E+00 OUTFL | O₩=0.957! | 5E+05 BASIN | STORAGE=0 | .3504E+02 PERCENT ERF | ROR= 0.1 |
|                | Rt24  | MANE    | 57.00       | 339.66     | 2166.00       | 2.69       | 60.00     | 339.55      | 2160.00   | 2.69                  |          |
| CONTINUITY SUN | MMARY | (AC-FT) | - INFLOW=0. | 6788E+03   | EXCESS=0.0000 | E+00 OUTFL | OW=0.6721 | le+03 basin | STORAGE=0 | .2698E+00 PERCENT ERF | ROR≃ 0.9 |
|                | Rt25  | MANE    | 60.00       | 2702.75    | 2700.00       | 4.83       | 60.00     | 2702.75     | 2700.00   | 4.83                  |          |
| CONTINUITY SUN | MMARY | (AC-FT) | - INFLOW=0. | 9688E+04 1 | EXCESS=0.0000 | E+00 OUTFL | ow≃0.9681 | LE+04 BASIN | STORAGE=0 | .5466E+00 PERCENT ERF | ROR= 0.1 |

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## SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION SACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

|   | PLAN | 1 | · • • • • • • • • • • • • • • • • • • • | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>135               |                             | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|---|------|---|---|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|   |      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00                                    |                                  |                              |                             | 2190.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               |                             | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
| , |      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00                                    |                                  |                              |                             | 2217.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
| _ | PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               |                             | SPILLWAY CRE<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|   |      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CPS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00                                    |                                  |                              |                             | 2399.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               |                             | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|   |      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00                                    |                                  |                              |                             | 2431.<br>EACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               |                             | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|   |      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      |   | 1.00                                    | 114.67                           | 1.02                         | 443.                        | 3043.                                 | 135.00                        | 26.00                              | 0.00                        |

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## **HEC-1 MODEL**

PROPOSED CONDITIONS 50% DIVERSION

25-YEAR MODEL

FLOOD HYDROGRAPH PACKAGE (HEC-1)

\* MAY 1991

\* VERSION 4.0.1E

\* Lahey F77L-EM/32 version 5.01

\* Dodson & Associates, Inc.

\* RUN DATE 05/23/01 TIME 17:30:09

\*\*\*\*\*\*\*\*\*\*\*\*

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| х   | Х    | XXXXXXX | XX | XXX |       | х   |
|-----|------|---------|----|-----|-------|-----|
| X   | Х    | Х       | x  | Х   |       | XX  |
| Х   | х    | x       | X  |     |       | Х   |
| XXX | XXXX | XXXX    | x  |     | XXXXX | Х   |
| X   | х    | x       | Х  |     |       | X   |
| X   | Х    | Х       | Х  | Х   |       | Х   |
| х   | х    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE
             ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                 Hidalgo County Flood Insurance Study
                 Job No. 11-00389-002
                 File Name: Deten025.DAT
                                          Proposed with Detention Conditions
                  25-year Rain-fall
                                          Future Development
             * *************
             * HEC-1 model for the North-West main drain area
                Model sequence is as follows:
             * revised rainfall from USGS report 98-4044
             * REVISED CN TYPE I ANTECEDANT
               REVISED LAG BASED ON REVISED CN I
             * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
             * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
               SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
             * ROUTED 5&4 BASINS THROUGH STORAGE
             * MODIFIED PULS ROUTING REACHES 5R-9R
             * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
             *DIAGRAM
             aı
                 West Main drain area
                   25-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
             ΙĎ
                                       300
  3
             IT
                    60 1JAN01
             * ***********
             \star Start calculating hydrograph for the sub water sheds
             * that drain to the West Main drain.
  5
                SC-7A SUBWATER SHED
             KK
  6
             KM
                 Compute hydrograph for sub-water shed SC-7A
             BA
                  10.4
  8
                                                3.61 4.29
                                                             4.65 5.45
             PH
                     4
                                                                             6.22
                                                                                    6.62
                 5.721
                            60
             LS
 10
             UD
                  53.5
 11
             KK
 12
             KM
                 Route hydrograph from head water to node I using Muskingum-Cunge Method
 13
             RD
             RC
                  0.08
                          0.03
                                 0.08
                                       19200 0.0002
                                                        217
                  1000
                          2500
                                 2917
                                        2994
                                               3005
                                                       3061
                                                              4500
                                                                      5000
             RX
 16
             RY
                 203.5
                         202.0 204.4 191.53 191.53
                                                      204.5
                                                             199.9
                                                                     199.0
 17
             KK
                 SC-7B SUBWATER SHED
 18
             KM
                 Compute hydrograph for sub-water shed SC-7B
 19
             BA
                  9.82
 20
             LS
                 5.282
                            60
 21
             UD
                  20.1
```

| LINE | ID.  | 123456789   |
|------|------|---|
| 22   | KK   | 10  |
| 23   | KM   | Combine hydrograph from SC-7A and SC-7B, at node 1  |
| 24   | HC   | 2   |
|      | * ** | *******   |
| 25   | KK   | 2R  |
| 26   | KM   | Route hydrograph from node 1 to node 2              |
| 27   | RD   |   |
| 28   | RC   | 0.08 0.03 0.08 32000 0.0002 187                     |
| 29   | RX   | 1000 2500 2977 2994 3005 3032 4500 5000             |
| 30   | RY   | 175 173 172 160.91 160.91 174.0 173.0 175.0         |
|      | • •  |   |
| 31   | KK   | SC-7C SUBWATER SHED                                 |
| 32   | KM   | Compute hydrograph for sub-water shed SC-7C         |
| 33   | ВA   | 23  |
| 34   | LS   | 5.028 60  |
| 35   | UD   | 27.4  |
|      | * *  | **********  |
| 36   | KK   | SC-6A   |
| 37   | KM   | Compute hydrograph for sub-water shed SC-6A         |
| 38   | BA   | 41.66   |
| 39   | LS   | 4.484 60  |
| 40   | UD   | 50.5  |
|      | * *: | **********  |
| 41   | KK   | 2C  |
| 42   | KM   | Combine hydrograph at node 2                        |
| 43   | HC   | 3   |
|      | * *  | ****  |
| 44   | KK   | 3R  |
| 45   | KM   | Route hydrograph from node 2 to node 3              |
| 46   | RD   |   |
| 47   | RC   | 0.08 0.03 0.08 20800 0.0005 106                     |
| 48   | RX   | 1000 1874.9 1960.8 1966.1 1992.5 2010.8 2037.1 3000 |
| 49   | RY   | 97 98 100 98 88 88 100 99.4                         |
|      | * *  | *********   |
| 50   | KK   | SC-6B   |
| 51   | KM   | Compute hydrograph for sub-water shed SC-6B         |
| 52   | BA   | 6.58  |
| 53   | LS   | 1.765 60  |
| 54   | UD   | 22.6  |
|      | * *  | **********  |
| 55   | KK   | SC-7D   |
| 56   | KM   | Compute hydrograph for sub-water shed SC-7D         |
| 57   | BA   | 6.15  |
| 58   | LS   | 4.829 60  |
| 59   | UD   | 25.6  |

| 1   |                | HEC-1 INPUT   |
|-----|----------------|---|
| LIN | IE ID          | 12345678910   |
| á   | 50 KK          | 3R  |
|     | 51 KM          | Route hydrograph from of SC-7D to node 3            |
|     | 52 RD          | nade Nyaragraph 126m 62 66 No co nada c             |
|     | 33 RC          | 0.08 0.03 0.08 8000 0.0001 106                      |
|     | 54 RX          | 1000 1967.5 1977.9 1985.8 2007 2017.3 2081 3000     |
|     | 55 RY          | 97.2 98 90 84 84 90 98 97                           |
| ·   | *              | *********   |
| •   | 56 KK          | 3C  |
| (   | 57 KM          | Combine three hydrograph at node 3                  |
| •   | 58 HC          | 3   |
|     | *              | *********   |
|     | 59 KK          |   |
|     | 70 KM          | Route hydrograph from node 3 to node 4              |
|     | 71 RS          | 1 STOR -1   |
|     | 72 SV          |   |
| •   | 73 SQ          | 0 680 1360 1700 2715 4240                           |
|     | *              | 0.08 0.03 0.08 14400 0.0006 103                     |
|     | *              | 1000 1818.2 1830.9 1843.6 1867 1878.8 1890.6 2855.2 |
|     | *              | 89 90 84 78 78 84 90 89                             |
|     | *              | **********  |
|     | 74 KK          | SC5A subwater-shed                                  |
| •   | 75 <b>KM</b>   | Compute hydrograph for subwater shed SC-5A          |
| •   | 76 BA          | 38.43   |
| •   | 7 <b>7 L</b> S | 2.575 60  |
| •   | 78 UD          |   |
|     | *              | **********  |
|     | 79 KK          | 5ACANA  |
|     | 90 KM          |   |
|     | 91 RS          |   |
|     | 82 SS          |   |
|     | 83 ST          |   |
|     | 84 SW          |   |
|     | 85 SE          |   |
|     | 86 SV          |   |
|     | 87 SE          | 135 140 145 150                                     |
|     | ^              |   |
|     | 88 KK          | 5AROUT  |
|     | 89 KM          | Route hydrograph TO DOWNSTREAM CANAL                |
|     | 90 RD          |   |
|     | 91 RC          |   |
|     | 92 RX          |   |
|     | 93 RY          | 140 135 130 125 122.5 125 130 135                   |

```
ID.....1.....2.....3.....4......5.....6......7.....8.....9.....10
LINE
                 SC5A1 subwater-shed
             KK
                 Compute hydrograph for subwater shed SC-5A1
 95
             ΚM
             BA
                  5.64
 97
             LS
                 1.889
                           60
 98
             99
             KK
                  5AA1
                 Combine two hydrographs
 100
             KM
             HC 2
 101
 102
             KK 5A1CAN
 103
             KM
                 CANAL CROSSING
                                  115
                                          a
 104
             RS
                    1
                         ELEV
 105
             SS
                 116.8
                          1900
                                  2.8
                                         1.5
                                  2.8
 106
             ST
                 117.2
                          4050
                                         1.5
 107
             sv
                    C
                          2705
                  115
                          120
 108
             SE
 109
             KK
                 5A1RT
                 Route hydrograph TO DOWNSTREAM CANAL
 110
             KM
 111
             RD
                           .06
                                  .06
                                       14900
                                              .0017
                                                       110
                   .06
 112
             RC
                          2580
                                 4000
                                        5000
                                               6000
                                                      9675
                                                             10400
                                                                    10450
                    0
 113
             RX
                                          94
                                                 95
                                                       100
                                                              105
                                                                     105
                          100
                                 95
                   100
 114
             RY
 115
             KK
                 SC5B subwater-shed
                  Compute hydrograph for subwater shed SC-5B
 116
             KM
 117
             BA
                  9.02
                  2.515
                            60
 118
             LS
             119
             UD
 120
             КK
                   4C1
 121
             KM
                  Combine two hydrographs
             HC 2
 123
             KK
                  SC-4A subwater-shed
                  Compute hydrograph for subwater shed SC-4A
 124
             KM
 125
             BA
                  30.73
                            60
 126
             LS
                 2.512
 127
             UD
                  37.3
             * ********
 128
             KK 4ACANA
                 CANAL CROSSING
 129
             KM
                          ELEV
                                  160
                                          0
 130
             RS
                     1
                 171.74
                           500
                                  2.8
                                         1.5
 131
             SS
             ST 171.83
                           500
                                  2.8
                                         1.5
                                                500
                                                        500
                                         500
 133
             SW
                   500
                           500
                                  500
```

| LINE | ID12345678910                                  |  |
|------|--|--|
| 45.  |  |  |
| 134  | SE 171.91 172 172.08 172.17 172.26 172.35      |  |
| 135  | SV 0 60 946.5 4419                             |  |
| 136  | SE 160 165 170 175                             |  |
|      | * ***********                                  |  |
| 137  | KK 4AROUT                                      |  |
| 138  | KM Route hydrograph TO DOWNSTREAM CANAL        |  |
| 139  | RD   |  |
| 140  | RC .06 .06 .06 11300 .003 165                  |  |
| 141  | RX 0 2500 3000 3500 4000 5000 6000 7650        |  |
| 142  | RY 155 155 150 150 155 155 155 155             |  |
|      | * ***************                              |  |
| ***  |  |  |
| 143  | KK SC-4Al subwater-shed                        |  |
| 144  | KM Compute hydrograph for subwater shed SC-4A1 |  |
| 145  | BA 7.34  |  |
| 146  | LS 2.158 60                                    |  |
| 147  | UD 10.85                                       |  |
|      | * ************                                 |  |
| 148  | KK SC4AA1                                      |  |
| 149  | KM Combine two hydrographs                     |  |
| 150  | HC 2   |  |
| 100  | * ************                                 |  |
|      |  |  |
| 151  | KK 4A1CAN                                      |  |
| 152  | KM CANAL CROSSING                              |  |
| 153  | RS 1 ELEV 140 0                                |  |
| 154  | SS 141 4300 2.8 1.5                            |  |
| 155  | ST 141.11 500 2.8 1.5                          |  |
| 156  | SW 500 500                                     |  |
| 157  | SE 141.33 141.55                               |  |
| 158  | SV 0 2475                                      |  |
| 159  | SE 140 145                                     |  |
|      | * ***********                                  |  |
| 1.00 | 474 43 4 DAY                                   |  |
| 160  | KK 4A1ROU                                      |  |
| 161  | KM Route hydrograph TO DOWNSTREAM CANAL        |  |
| 162  | RD   |  |
| 163  | RC .06 .06 .06 8000 .003 145                   |  |
| 164  | RX 0 700 1500 1800 2300 2400 2425 2500         |  |
| 165  | RY 130 127.5 126.5 130 135 135 135 135         |  |
|      | * ***********                                  |  |
| 166  | KK SC-4B subwater-shed                         |  |
| 167  | KM Compute hydrograph for subwater shed SC-4B  |  |
| 168  | BA 5.44  |  |
|      |  |  |
| 169  | LS 3.062 60                                    |  |
| 170  | UD 6.6   |  |
|      | * ************************************         |  |

<sup>\*</sup> COMBINE WATERSHEDS SC-4A,4A1,4B

```
ID.....1.....2......3.....4......5......6......7.....8......9.....10
LINE
               KK SC4AAB
               ΚM
                  Combine two hydrographs
                      2
               KK 4BCANA
 174
                   CANAL CROSSING
 175
               KM
                            ELEV
                                     110
                                               0
 176
               RS
                       1
                  113.48
                             500
                                     2.8
                                             1.5
 177
               SS
                             500
                                     2.8
                                             1.5
               ST
                  113.65
 178
                             500
                                             500
                                                     500
 179
                     500
                                     500
               SW
                  113.82
                          113.99
                                  114.15
                                          114.32 114.49 114.66
 180
               SE
                       0
                           473.8
                                    2460
               sv
 181
                     110
                             115
                                    120
               SE
 182
 183
               KK
                  4AABRT
                   Route hydrograph TO DOWNSTREAM CANAL
 184
 185
               RD
                      .06
                              -06
                                      .06
                                            10800
                                                    .0018
                                                             105
 186
               RC
                                                                    4000
                                                                            5000
                                                            3500
 187
               RX
                       0
                            1100
                                    2000
                                            2600
                                                    3000
                     110
                            105
                                     100
                                              98
                                                     100
                                                             105
                                                                     105
                                                                             105
 188
               RY
               KK SC-4B1 subwater-shed
 189
                   Compute hydrograph for subwater shed SC-4B1
 190
               KM
 191
               BA
                    6.07
               LS
                    2.451
 192
               UD
                    12.2
 193
 194
               KK
                    SC-4
 195
                    Combine two hydrographs
               HC 2
 196
 197
               KK
                      4C2
                    Combine three hydrographs at node 4
 198
               KM
 199
               HС
                      3
               KK
 200
                       5R
                    Route hydrograph from node 4 to node 5
               кМ
 201
                            STOR
                                     -1
 202
               ŔS
                        1
                                                             6496
               SV
                        0
                              204
                                      838
                                             1406
                                                     3840
 203
               SQ
                             1110
                                     2220
                                             2775
                                                     4440
                                                             6940
 204
                                         12800 0.0002
                                                            106
                   0.08
                           0.03
                                  0.08
                          1101 1113.3 1132.9 1153.4 1166.2
82 78 70 70 78
                                                                1178.9
                                                                           3000
                   1000
                                                                           86.5
```

| LINE | ID12345678910   |
|------|---|
| 205  | KK SC-3 SUB-WATER SHED                                  |
|      |   |
| 206  | KM Compute hydrograph for subwater shed SC-3            |
| 207  | BA 56.44  |
| 208  | LS 2.203 60   |
| 209  | UD 62.9   |
|      | * **********  |
| 210  | KK 5C   |
| 211  | KM Combine two hydrographs at node 5                    |
| 212  | HC 2  |
|      | * ***********   |
| 213  | KK DIAI   |
| 214  | KM Diversion to Raymondville Drain                      |
| 215  | DT DIV1   |
|      |   |
| 216  |   |
| 217  | DQ 0 9 114 265 570 1175 2200 4050 6250                  |
|      |   |
| 218  | KK 6R   |
| 219  | KM Route hydrograph from node 5 to node 6               |
| 220  | RS 2 STOR -1  |
| 221  | SV 0 428 2369 3646 8785 12983                           |
| 222  | SQ 0 1315 2630 3290 5260 8220                           |
|      | *   |
|      | * 0.08 0.03 0.08 7200 0.0002 103                        |
|      | * 1000 1891.2 1926.7 1980.9 2018.3 2105 2201.4 3000     |
|      | * 82 82 86 70 70 88 86 83                               |
|      | * *************   |
| 223  | W 00-20   |
|      | KK SC-3B  |
| 224  | KM Compute hydrograph from sub-water shed SC-3B         |
| 225  | BA 6.71   |
| 226  | LS 3.075 60   |
| 227  | UD 34.4   |
|      | * ************  |
| 228  | KK 6C   |
| 229  |   |
|      |   |
| 230  | HC 2<br>* ***************                               |
|      |   |
| 231  | KK 7R   |
| 232  | KM Route hydrograph from node 6 to node 7               |
| 233  | RS 1 STOR -1  |
| 234  | SV 0 86 166 392 1932 3564                               |
| 235  | SQ 0 1345 2690 3360 5380 8400                           |
|      | *   |
|      | * 0.08 0.03 0.08 25200 0.0004 103                       |
|      | * 1000 1856.6 1869.7 1896.8 1933.8 1960.1 2757.7 2915.9 |
|      | * 86 96 78 70 70 86 86 98                               |
|      | * ****************                                      |
|      |   |

| LINE | ID123456,78910   |
|------|--|
|      |  |
| 236  | KK SC-2  |
| 237  | ·  |
|      |  |
| 238  | BA 11.48   |
| 239  | LS 5.152 60  |
| 240  | UD 56.8  |
|      | * ***********  |
| 241  | KK 7C  |
| 242  | KM Combine hydrograph at node 7  |
| 243  | HC 2   |
| 2.0  | * ***********  |
| 244  | · · · · · · · · · · · · · · · · · · ·                                    |
| 244  | KK 8R  |
| 245  | KM Route hydrograph from node 7 to node 8                                |
| 246  | RS 2 STOR -1   |
| 247  | SV 0 314 1129 1807 4601 9248   |
| 248  | SQ 0 1390 2780 3475 5560 8690<br>*                                       |
|      | * 0.08 0.03 0.08 26400 0.0003 103  |
|      | * 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1                  |
|      | * 66 66 60 54 54 62 68 72  |
|      | * **********   |
| 249  | KK SC-1  |
|      |  |
| 250  | KM Compute hydrograph for SC-1   |
| 251  | BA 7.07  |
| 252  | LS 1.365 60  |
| 253  | UD 38.7  |
|      | * ***********  |
| 254  | KK 8C1   |
| 255  | KM Combine hydrograph at node 8  |
| 256  | HC 2   |
|      | * ********************   |
|      | <ul> <li>Start calculating hydrograph for the sub water sheds</li> </ul> |
| •    | * that drain to the South Main drain.                                    |
|      | * ********************************                                       |
| 257  | VV CC A  |
| 257  | KK SC-8  |
| 258  | KM Compute hydrograph for subwater shed SC-8                             |
| 259  | BA 19.99   |
| 260  | LS 1.861 68.50   |
| 261  | UD 53.5  |
|      | * **********   |
| 262  | KK 1BR   |
| 263  | KM Route hydrograph to node 1B   |
| 264  | RD   |
| 265  | RC 0.08 0.03 0.08 27200 0.0003 115                                       |
| 266  | RX 1000 1695.7 1973 2003 2010.5 2029.5 2075.5 3000                       |
| 267  | RY 103.1 110 100 90 90 100 108 107                                       |
| 201  | AT 105.1 170 100 50 50 100 100 107                                       |

```
ID.....1.....2.....3.....4.....5.....6.....7,.....8.....9.....10
LINE
 268
               KK
 269
                    Compute hydrograph for sub-water shed SM-18
 270
               ва
                    27.11
 271
                    4.165
 272
               UD
                    55.8
 273
               КK
                    1BC1
 274
               КM
                    Combine two hydrographs at node 1B
 275
276
               ΚK
                    SM-17
 277
               КМ
                    Compute hydrograph for sub-water shed SM-17
 278
               BA
                    7.03
 279
               LS
                    0.834
                           70.51
               UD 36.3
 280
               UD
 281
               КK
                    1BC2
 282
               км
                   Combine two hydrographs at node 1B
 283
               HC 2
 284
               кĸ
                     2BR
 285
               ĸм
                    Route hydrograph from node 1B to 2B
              RC 0.08 0.03 0.08 14400 0.0007 103
RX 1000 1335.2 1343 1354.8 1398.6 1411.9 1420.9 2375.6
RY 91 91 88 82 82 88 92 ^^
 286
 287
 288
 289
 290
               KK
                    SM-16
 291
               KM
                    Compute hydrograph for SM-16
 292
               BA
                    25.18
 293
               LS
                    2.689
                               60
               UD
                    61.6
 295
               KK
                     2BC
 296
               KM
                   Combine hydrograph at node 2B
               HC 2
 297
 298
               KK
 299
                    Route hydrograph from node 2B to node 3B
 300
 301
               RC
                     0.08
                             0.03
                                     0.08
                                           10400 0.0008
                                                             103
               RX 1000 1760.1 1781.2 1826.3 1883.8 1920.1 1946.7 2799.8 RY 79 84 72 72 84 92 82 82.4
 302
 303
               RY
```

| LINE | ID.       | 12345678910   |
|------|-----------|---|
| 304  | кк        | SM-15 SUB-WATER SHED                                |
| 305  | KM        | Compute hydrograph for SM-15                        |
| 306  | BA        | 11.1  |
| 307  | LS        |   |
|      |           |   |
| 308  | UD<br>* * | 40.6<br>************                                |
| 309  | KK        | 3BC   |
| 310  |           |   |
|      | KM        | Combine hydrograph at node 3B                       |
| 311  | HC        | 2   |
|      | * *       | **********  |
| 312  | KK        | 4BR   |
| 313  | KM        | Route hydrograph from node 3B to 4B                 |
| 314  | RD        |   |
| 315  | RC        | 0.08 0.03 0.08 10400 0.0003 103                     |
| 316  | RX        | 1000 1962.3 1989.1 2026.6 2053.7 2129 2176 3000     |
| 317  | RY        |   |
| 317  |           | 72.7 76 60 60 74 86 74 75.6 ****************        |
| 318  | KK        | SM-14 SUB-WATER SHED                                |
| 319  | KM        | Compute hydrograph for SM-14                        |
| 320  | BA        | 21.6  |
| 321  | LS        | 1.666 60  |
| 322  | UD        | 69.1  |
| 322  | * *       | **********  |
| 323  | KK        | 4BC   |
| 324  | KM        | Combine hydrograph at node 4B                       |
| 325  | HC        | 2 Hydrograph de hode is                             |
| 323  |           | **********  |
| 326  | KK        | 8BR   |
| 327  | KM        | Route hydrograph from node 4B to node 9             |
| 328  | RD        |   |
| 329  | RC        | 0.08 0.03 0.08 16000 0.0007 103                     |
| 330  | RX        | 1000 1885.8 1978.6 2036.9 2065.1 2149.5 2205 3000 - |
| 331  | RY        | 76 76 54 54 68 82 70 72                             |
|      |           | *********   |
| 332  | KK        | SM-13   |
| 333  | KM        | Compute hydrograph for SM-13                        |
| 334  | BA        | 22.25   |
| 335  | LS        | 4.220 60  |
| 336  | UD        | 74.5  |
| 220  |           | /4.0<br>\$}*************                            |
| 337  | KK        | 8C2   |
| 338  | KM        | Combine hydrograph at node 9                        |
| 339  | HC        | 2   |
|      | -10       | <del>-</del>  |

| 340   | LINE | ID.  | 12345678910   |
|---|------|------|---|
| 342   | 340  | кк   | 8C3   |
| 343   | 341  | KM   | Combine hydrographs from North-West and South drain |
| 343 KK 9R 344 NM Route hydrograph to the PANCHITA STRUCTURE 345 ND 346 RC 0.08 0.03 0.08 46724 0.0004 103 347 RX 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1 348 RY 66 66 66 60 54 54 62 68 72  349 KK 29S SUB-WATER SHED 350 KM Compute hydrograph for 29S 351 BA 12.28 352 LS 3.021 60 353 UD 25.9  354 KK Com9A 355 KM Combine two hydrographs at Node 9 356 HC 2  357 KK 28S SUB-WATER SHED 358 KM Combine two hydrograph for 28S 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  4 Compute hydrograph to Node 10 366 KM Combine two hydrographs at Node 9 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  370 KK DIV2 371 NM TO WATERSHED SOUTH OF NORTH MAIN 372 DT DIV2 373 DI 0 7000 65000 | 342  | HC   | 2   |
| 344   |      | * ** | *******   |
| 345 RD 346 RC 0.08 0.03 0.08 45724 0.0004 103 347 RX 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1 348 RY 66 66 60 54 54 62 68 72  349 KK 29S SUB-WATER SHED 350 KM Compute hydrograph for 29S 351 BA 12.28 352 LS 3.021 60 353 UD 25.9 356 KM Combine two hydrographs at Node 9 357 KK 28S SUB-WATER SHED 358 KM Combine two hydrograph for 28S 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  402 C  362 KK Com9B 363 KM Combine two hydrographs at Node 9 364 HC 2 365 KM Route hydrograph to Node 10 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  370 KK DIV2 371 KM TO WATERSHED SOUTH OF NORTH MAIN 372 DT DIV2 373 DI 0 7000 65000  | 343  | KK   | 9R  |
| 346   | 344  | KM   | Route hydrograph to the PANCHITA STRUCTURE          |
| 347 RX 1000 1927.4 1937.8 1947.9 2019.1 2035.6 2105.8 2948.1 348 RY 66 66 66 60 54 54 62 68 72  349 KK 29S SUB-WATER SHED 350 KM Compute hydrograph for 29S 351 BA 12.28 352 LS 3.021 60 353 UD 25.9  |      | RD   |   |
| 348 RY 66 66 66 60 54 54 62 68 72  349 KK 29S SUB-WATER SHED 350 KM Compute hydrograph for 29S 351 BA 12.28 352 LS 3.021 60 353 UD 25.9  354 KK Com9A 355 KM Combine two hydrographs at Node 9 356 HC 2  357 KK 28S SUB-WATER SHED 358 RM Compute hydrograph for 28S 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  ***********************************  |      |      |   |
| 349 KK 29S SUB-WATER SHED 350 KM Compute hydrograph for 29S 351 BA 12.28 352 LS 3.021 60 353 UD 25.9 354 KK Com9A 355 KM Combine two hydrographs at Node 9 356 HC 2 357 KK 28S SUB-WATER SHED 358 KM Compute hydrograph for 28S 358 KM Compute hydrograph for 28S 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  |      |      |   |
| 349 KK 29S SUB-WATER SHED 350 KM Compute hydrograph for 29S 351 BA 12.28 352 LS 3.021 60 353 UD 25.9  ***********************************   | 348  |      |   |
| 350 RM Compute hydrograph for 29S 331 BA 12.28 352 LS 3.021 60 353 UD 25.9 ************************************   |      | * *1 | *********   |
| 351 BA 12.28 352 LS 3.021 60 353 UD 25.9  ***********************************   |      | KK   | 29S SUB-WATER SHED                                  |
| 352   |      |      |   |
| 353 UD 25.9 ************************************  |      |      |   |
| 354 KK Com9A 355 KM Combine two hydrographs at Node 9 356 HC 2  ***********************************   |      |      |   |
| 355 KM Combine two hydrographs at Node 9 356 HC 2 ************************************  | 353  |      |   |
| 356  HC 2  ***********************************  | 354  | кк   | Com9A   |
| 357 KK 28S SUB-WATER SHED 358 KM Compute hydrograph for 28S 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  ***********************************   | 355  | KM   | Combine two hydrographs at Node 9                   |
| 357 KK 28S SUB-WATER SHED 358 KM Compute hydrograph for 28S 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  ***********************************   | 356  |      |   |
| 358   |      | * ** | *******   |
| 359 BA 25.91 360 LS 2.866 60 361 UD 38.6  ***********************************   | 357  | KK   | 28S SUB-WATER SHED                                  |
| 360   | 358  | KM   | Compute hydrograph for 28S                          |
| 361 UD 38.6  * **********************************   | 359  | BA   | 25.91   |
| 362 KK Com9B 363 KM Combine two hydrographs at Node 9 364 HC 2 ************************************   | 360  | LS   | 2.866 60  |
| 362 KK Com9B 363 KM Combine two hydrographs at Node 9 364 HC 2 ************************************   | 361  |      |   |
| 363 364  KM Combine two hydrographs at Node 9 365  KK Rt10 366  KM Route hydrograph to Node 10 367  RS 1 STOR -1 368  SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369  SQ 0 1000 2000 4000 6000 8000 10000  *****************************  |      | * ** | *********   |
| 364 HC 2  * *********************************   | 362  | KK   |   |
| 365 KK Rt10 366 KM Route hydrograph to Node 10 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  *****************************   |      | KM   | Combine two hydrographs at Node 9                   |
| 365 KK Rt10 366 KM Route hydrograph to Node 10 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  *****************************   | 364  |      |   |
| 366 KM Route hydrograph to Node 10 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  *****************************   |      | * ** | **********  |
| 366 KM Route hydrograph to Node 10 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  *****************************   | 365  | KK   | Rt10  |
| 367 RS 1 STOR -1 368 SV 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51 369 SQ 0 1000 2000 4000 6000 8000 10000  *****************************  |      |      |   |
| 369 SQ 0 1000 2000 4000 6000 8000 10000  *****************************  | 367  | RS   |   |
| 370 KK DIV2 371 KM TO WATERSHED SOUTH OF NORTH MAIN 372 DT DIV2 373 DI 0 7000 65000   | 368  | sv   | 0 527.17 816.18 2044.31 5147.32 7902.66 9972.51     |
| 370 KK DIV2 371 KM TO WATERSHED SOUTH OF NORTH MAIN 372 DT DIV2 373 DI 0 7000 65000   | 369  | SQ   | 0 1000 2000 4000 6000 8000 10000                    |
| 371 KM TO WATERSHED SOUTH OF NORTH MAIN 372 DT DIV2 373 DI 0 7000 65000   |      | * ** | *******   |
| 372 DT DIV2<br>373 DI 0 7000 65000  | 370  | KK   | DIV2  |
| 373 DI 0 7000 65000   | 371  | KM   | TO WATERSHED SOUTH OF NORTH MAIN                    |
|   |      |      |   |
| 374 DQ 0 2000 2000  |      | -    |   |
|   | 374  | DQ   | 0 2000 2000   |

| LINE | ID        | 12345678910                                    |
|------|-----------|--|
| 375  | KK        | 275 SUB-WATER SHED                             |
| 376  | KM        |  |
| 377  | BA        | •        |
| 378  | LS        |  |
| 379  | UD        | 2.977 61.92<br>14.7                            |
| 319  |           |  |
| 380  | KK        | Com10A   |
| 381  | KM        |  |
| 382  | HC        | Combine two hydrographs at Node 10             |
| 302  |           | _<br>\$**************                          |
| 383  | KK        | 26S SUB-WATER SHED                             |
| 384  | KM        | Compute hydrograph for 26S                     |
| 385  | BA        | 10.55  |
| 386  | LS        | 2.974 62.54                                    |
| 387  | UD        | 13.6   |
| 20.  |           | ***********                                    |
| 388  | KK        | 24S SUB-WATER SHED                             |
| 389  | KM        | Compute hydrograph for 24S                     |
| 390  | BA        | 3.83   |
| 391  | LS        | 2.940 62.11                                    |
| 392  | UD        | 14.7   |
|      |           | **********                                     |
| 393  | KK        | Com10B   |
| 394  | KM        | Combine three hydrographs at Node 10           |
| 395  | HC        | 3  |
|      | * *       | ***********                                    |
| 396  | KK        | Rt11   |
| 397  | KM        | Route hydrograph to Node 11                    |
| 398  | RS        | 1 STOR -1                                      |
| 399  | SV        | 0 249.3 385.44 1661.56 3718.66 5233.82 6730.05 |
| 400  | SQ<br>* * | 0 1000 2000 4000 6000 8000 10000               |
|      |           | ·  |
| 401  | KK        | 22S SUB-WATER SHED                             |
| 402  | KM        | Compute hydrograph for 22S                     |
| 403  | BA        | 7.55   |
| 404  | LS        | 3.000 62.90                                    |
| 405  | av        | 20.4   |
|      | * *       | ********                                       |
| 406  | ĸĸ        | Com11A   |
| 407  | KM        | Combine two hydrographs at Node 11             |
| 408  | НC        | 2  |
|      | * *       | *********                                      |

| LINE | ID. | 12345678910                                  |
|------|-----|--|
| 409  | кк  | 20S SUB-WATER SHED                           |
| 410  | KM  | Compute hydrograph for 20S                   |
| 411  | BA  | 10.57  |
| 412  | LS  | 2.847 60                                     |
| 413  | UD  | 24.0   |
|      |     | **********                                   |
| 414  | KK  | Com11B                                       |
| 415  | KM  | Combine two hydrographs at Node 11           |
| 416  | HC  | 2  |
|      | * * | **********                                   |
| 417  | KK  | Rt12   |
| 418  | KM  | Route hydrograph to Node 12                  |
| 419  | RS  | 1 STOR -1                                    |
| 420  | sv  | 0 202.5 312.74 870.9 2706.99 3523.96 4130.87 |
| 421  | SQ  | 0 1000 2000 4000 6000 8000 10000             |
|      | * * | **********                                   |
| 422  | KK  | 18S SUB-WATER SHED                           |
| 423  | KM  | Compute hydrograph for 18S                   |
| 424  | BA  | 4.69   |
| 425  | LS  | 2.885 60                                     |
| 426  | UD  | 16.5   |
|      | * * | ***********                                  |
| 427  | KK  | Com12  |
| 428  | KM  | Combine two hydrographs at Node 12           |
| 429  | HC  | 2  |
|      | * * | *******                                      |
| 430  | кк  | Rt13   |
| 431  | KM  | Route hydrograph to Node 13                  |
| 432  | RS  | 1 STOR -1                                    |
| 433  | sv  | 0 71.07 113.63 427.96 987.6 1443.8 1838.89   |
| 434  | SQ  | 0 1000 2000 4000 6000 8000 10000             |
|      | * * | **********                                   |
| 435  | KK  | 16S SUB-WATER SHED                           |
| 436  | KM  | Compute hydrograph for 16S                   |
| 437  | BA  | 9.60   |
| 438  | LS  | 3.705 60                                     |
| 439  | ŪD  | 23.5   |
|      | * * | *********                                    |
| 440  | KK  | Com13A                                       |
| 441  | KM  | Combine two hydrographs at Node 13           |
| 442  | HC  | 2  |
|      | * * | ******                                       |

| LINE | ID12345678910                                      | ı |
|------|--|---|
| 443  | KK 15S SUB-WATER SHED                              |   |
| 444  | KM Compute hydrograph for 15S                      |   |
| 445  | BA 25.08   |   |
| 446  | LS 3.517 60  |   |
| 447  | UD 36.4  |   |
|      | * ***********                                      |   |
| 448  | KK Com13B  |   |
| 449  | KM Combine two hydrographs at Node 13              |   |
| 450  | HC 2   |   |
|      | * ***********                                      |   |
| 451  | KK Rt14  |   |
| 452  | KM Route hydrograph to Node 14                     |   |
| 453  | RS 1 STOR -1                                       |   |
| 454  | SV 0 325.09 531.58 2194.95 4313.68 5830.17 7281.01 |   |
| 455  | SQ 0 1000 2000 4000 6000 8000 10000                |   |
|      | * **********                                       |   |
| 456  | KK 13S SUB-WATER SHED                              |   |
| 457  | KM Compute hydrograph for 13S                      |   |
| 458  | BA 19.76   |   |
| 459  | LS 3.807 60  |   |
| 460  | UD 32.6  |   |
|      | * *************                                    |   |
| 461  | KK Com14A  |   |
| 462  | KM Combine two hydrographs at Node 14              |   |
| 463  | HC 2   |   |
|      | * ***********                                      |   |
| 464  | KK 14S SUB-WATER SHED                              |   |
| 465  | KM Compute hydrograph for 14S                      |   |
| 466  | BA 9.53  |   |
| 467  | LS 3.060 60  |   |
| 468  | UD 22.9  |   |
|      | * **********                                       |   |
| 469  | KK Com14B  |   |
| 470  | KM Combine two hydrographs at Node 14              |   |
| 471  | HC 2   |   |
|      | * ***********                                      |   |
| 472  | KK Rt15  |   |
| 473  | KM Route hydrograph to Node 15                     |   |
| 474  | RS 1 STOR -1                                       |   |
| 475  | SV 0 208.71 319.05 1791.94 3107.58 4264.72 5131.9  |   |
| 476  | SQ 0 1000 2000 4000 6000 8000 10000                |   |
|      | 2 1223122222222222222                              |   |

```
LINE
              ID......1.....2......3......4......5......6........7.....8......9......10
477
              KK
                    11S SUB-WATER SHED
                 Compute hydrograph for 115
478
              KM
              BA
                   8.20
 479
 480
              LS
                  2.970
                          61.62
              UD
                   12.2
 481
 482
              KK
                  Com15
                  Combine two hydrographs at Node 15
 483
              КM
 485
              KK
                   Rt16
 486
              КM
                  Route hydrograph to Node 16
              RS 1 STOR -1
SV 0 197.28 298.23 1677.59 3541.79 4950.66 5984.55
SQ 0 1000 2000 4000 6000 8000 10000
 487
 488
 489
 490
              KK
                     7S SUB-WATER SHED
 491
                 Compute hydrograph for 7S
              KM
 492
              BA
                   29.41
 493
                   3.141
                              60
 494
              ŪĎ
                   38.3
 495
              KK
                  Com16
              KM
                  Combine two hydrographs at Node 16
 496
              HC 2
 497
 498
              KK
                    Rt17
 499
              KM
                   Route hydrograph to Node 17
                   1 STOR -1
0 432.95 639.58 954.67 1433.05 2543.25 3518.78
 500
 501
              sv
              SQ 0 1000 2000 4000 6000 8000 10000
 502
                     6S SUB-WATER SHED
 503
              KK
                   Compute hydrograph for S6
 504
              КМ
 505
              BA
                    9.21
              LS
                   2.183
                              60
 506
              ΩD
 507
                    12.9
              * ********
 508
                   Combine two hydrographs at Node 17
              HC 2
 510
```

|       |     | ·  |
|-------|-----|--|
| LINE  | ID. | 12345678910                                    |
|       |     |  |
|       |     | 2110   |
| 511   | KK  | Rt18   |
| 512   | KM  | Route hydrograph to Node 18                    |
| 513   | RS  | 1 STOR -1                                      |
| 514   | sv  | 0 388.62 558.69 807.92 1617.19 3723.86 4996.12 |
| 515   | so  | 0 1000 2000 4000 6000 8000 10000               |
| 313   |     | **********                                     |
|       |     |  |
| 516   | KK  | 4S SUB-WATER SHED                              |
| 517   | KM  | Compute hydrograph for 4S                      |
|       | BA  | 22.35  |
| 518   |     |  |
| 519   | LS  | 2.408 60                                       |
| 520   | ŪD  | 19.6   |
|       | * * | ********                                       |
|       |     |  |
| 521   | KK  | Com18A   |
| 522   | KM  | Combine two hydrographs at Node 18             |
| 523   | HC  | 2  |
|       | * * | *********                                      |
|       |     |  |
| 524   | KK  | 3S SUB-WATER SHED                              |
| 525   | KM  | Compute hydrograph for 3S                      |
| 526   | BA  | 4.49   |
| 527   | LS  | 1.153 60                                       |
| 528   | UD  | 16.0   |
| 926   |     | 1U-V   |
|       |     |  |
| 529   | KK  | Com16B   |
| 530   | KM  | Combine two hydrographs at Node 18             |
|       |     | 2  |
| 531   | HC  | _<br>++************                            |
|       | •   |  |
| 532   | KK  | Rt19   |
| 533   | KM  | Route hydrograph to                            |
|       |     | 1 STOR -1                                      |
| 534   | RS  |  |
| 535   | SV  | 0 130.79 184.8 301.29 542.75 727.63 1178.32    |
| 536   | SQ  | 0 1000 2000 4000 6000 8000 10000               |
|       | * * | ***************                                |
| F 0 = |     | OR ONE MATTER OUT                              |
| 537   | KK  | 2S SUB-WATER SHED                              |
| 538   | KM  | Compute hydrograph for S2                      |
| 539   | BA  | 5.35   |
| 540   | LS  | 0.992 60                                       |
| 541   | au  | 10.0   |
| 911   |     | **********                                     |
|       |     |  |
| 542   | KK  | Com19A   |
| 543   | KM  | Combine two hydrographs at Node 19             |
| 544   | HC  | 2  |
| 244   | n.c | •  |

| LINE        | ID12345678910  |
|-------------|--|
| 545         | KK 1S SUB-WATER SHED   |
| 546         | KM Compute hydrograph for 1S   |
| 547         | BA 7.47  |
| 548         | LS 1.659 60  |
| 549         | UD 20.4  |
| 349         | DD 20.4  |
| 550         | KK Com19B  |
| 551         | KM Combine two hydrographs at Node 19                                    |
| 552         | HC 2   |
|             | * *******************  |
|             | <ul> <li>Start calculating hydrograph for the sub water sheds</li> </ul> |
|             | * that drain to the Raymondville drain.                                  |
|             | * *****************  |
| 553         | KK DIVI  |
| 5 <b>54</b> | KM Diversion to Raymond∀ille Drain                                       |
| 555         | DR DIV1  |
|             | * **********   |
| 556         | KK SC-3A   |
| 557         | KM Compute hydrograph for subwater shed SC-3A                            |
| 558         | BA 5.87  |
| 559         | LS 1.917 60  |
| 560         | UD 59  |
|             | * *********  |
| 561         | KK 20C   |
| 562         | KM Combine two hydrographs at Node 20                                    |
| 563         | HC 2   |
| • • •       | * ***********  |
| 564         | KK 21R   |
| 565         | KM Route hydrograph to   |
| 566         | RS 1 STOR -1   |
| 567         | SV 0 61.09 135.31 196.91 329,32 1303.22                                  |
| 568         | SQ 0 100 300 500 1000 3000 -   |
|             | * ***********  |
| 569         | KK 29aR SUB-WATER SHED   |
| 570         | KM Compute hydrograph for 29aR   |
| 571         | BA 4.84  |
| 572         | LS 4.007 60  |
| 573         | UD 21.9  |
| J. J        | * ***********  |
| 574         | KK Com21A  |
| 575         | KM Combine two hydrographs at Node 21                                    |
| 576         | HC 2   |
| 3,0         | * *************  |

| LINE  | ID   | 12345678910   |
|-------|------|---|
| 570   | 107/ | JOB CHE MARIE CHEE  |
| 577   | KK   | 29R SUB-WATER SHED  |
| 578   | KM   | Compute hydrograph for 29R  |
| 579   | BA   | 18.03   |
| 580   | LS   | 4.517 60  |
| 581   | UD   | 31.2  |
|       | * ** | ***************************************                           |
| 582   | KK   | Com21B  |
| 583   | KM   | Combine two hydrographs at Node 21                                |
| 584   | HC   | 2   |
| 304   |      | _<br>************   |
|       |      |   |
| 585   | KK   | 22R   |
| 586   | KM   | Route hydrograph to   |
| 587   | RS   | 1 STOR -1   |
| 588   | sv   | 0 36.12 82.09 122.03 206.52 546.55                                |
| 589   | SQ   | 0 100 300 500 1000 3000   |
| 503   | * ** |   |
|       |      |   |
| 590   | KK   | 28aR SUB-WATER SHED   |
| 591   | KM   | Compute hydrograph for 28aR                                       |
| 592   | BA   | 2.35  |
| 593   | LS   | 5.536 60  |
| 594   | UD   | 12.0  |
|       | * ** | **********  |
|       |      |   |
| 595   | KK   | Com22   |
| 596   | KM   | Combine two hydrographs at Node 22                                |
| 597   | HC   | 2   |
|       | * ** | ******  |
| E 0.0 | W    | Rt23  |
| 598   | KK   |   |
| 599   | KM   | Route hydrograph to Node 23                                       |
| 600   | KO   | 1 1   |
| 601   | RS   | 1 STOR -1   |
| 602   | sv   | 0 1107.98 2893.97 4987.59 7268.44 9794.66 13889.2 18359.2 24697.5 |
| 603   | SQ   | 0 1000 2000 3000 4000 5000 7500 10000 15900                       |
|       | * ** | ***************************************                           |
| 604   | KK   | 24R SUB-WATER SHED  |
| 605   | KM   | Compute hydrograph for 24R  |
| 606   | BA   | 22.22   |
| 607   | LS   | 4.088 60  |
| 608   | UD   | 34.4  |
| 000   |      | 34,4<br>***************   |
|       |      |   |
| 609   | KK   | Com23A  |
| 610   | KM   | Combine two hydrographs at Node 23                                |
| 611   | HC   | 2   |
|       |      | ****  |
|       |      |   |

| LINE        | ID12345678910                         |
|-------------|---------------------------------------|
| 613         | VV 200 CUD Made Cup                   |
| 612         | KK 28R SUB-WATER SHED                 |
| 613         | KM Compute hydrograph for 28R         |
| 614         | BA 4.68                               |
| 615         | LS 7,319 60                           |
| 616         | UD 15.7                               |
|             | * ***********                         |
|             | * Rt24                                |
|             | * Route hydrograph to Node 24         |
|             | * 25000 0.0004 0.1 TRAP 40 2          |
|             | * ************                        |
| 617         | KK 25R SUB-WATER SHED                 |
| 618         | KM Compute hydrograph for 25R         |
| 619         | BA 8.99                               |
| 620         | LS 4.347 60                           |
| 621         | UD 22.3                               |
| <del></del> | * **********                          |
| 622         | KK 27R SUB-WATER SHED                 |
| 623         | KM Compute hydrograph for 27R         |
| 624         | BA 23.93                              |
| 625         | LS 3.830 60                           |
| 626         | UD 34.1                               |
| 020         | * ************                        |
| 627         | WW 001                                |
| 627         | KK Com24                              |
| 628<br>629  | KM Combine three hydrographs HC 3     |
| 029         | HC 3<br>* ***************             |
| 620         |                                       |
| 630         | KK Rt25                               |
| 631         | KM Route hydrograph to Node 25        |
| 632         | RD 37000 0.0004 0.1 TRAP 40 2         |
|             | * ************                        |
| 633         | KK 22R SUB-WATER SHED                 |
| 634         | KM Compute hydrograph for 22R         |
| 635         | BA 18.04                              |
| 636         | LS 2.632 61.9                         |
| 637         | UD 31.1                               |
|             | * ***********                         |
| 638         | KK Com25                              |
| 639         | KM Combine two hydrographs at Node 25 |
| 640         | HC 2                                  |
| <b></b>     | * *********                           |
| 641         | KK 19R SUB-WATER SHED                 |
| 642         | KM Compute hydrograph for 19R         |
| 643         | BA 11.18                              |
| 644         | LS 4.714 60                           |
|             | UD 24.8                               |
| 645         |                                       |

```
ID......1.....2......3.....4......5......6......7.....8.....9.....10
LINE
646
              KK Com23B
              KM Combine three hydrographs at Node 23
647
             HC 3
648
649
             KK
                  Rt26A
                  Route hydrograph to La Sal Viejo diversion
650
              KM
              KO
651
                      1
                             1.
                          STOR
              RS
652
                  0 31.13 45.65
0 1000 2000
              sv
                                        55.71 440.39 728.35 1179.82 1531.01 2099.78
653
                                         3000
                                               4000
                                                       5000 7500 10000 15000
              SQ
654
 655
              ĸκ
                   DIV3
656
              KM
                  Diversion to La Sal Viejo
 657
              DT
                   DIA3
                  0 7 1
0 0
                                                        2611
                                                 1406
 658
              DI
                                   152
                                          484
                                   55
                                          255
                                                  800
                                                        1335
 659
              DQ
660
              кĸ
                  Rt26B
                  Route hydrograph to Node 26
              ĸм
661
              KO
 662
                             1
                      1
                          STOR
 663
              RS
                      1
                               297.78 546.45
                                               982.63 1367.28 2212.32 2871.48
              sv
                      0
                        196.89
 664
665
              SQ
                         1000
                                2000
                                        3000
                                               4000 5000
                                                               7500 10000
 666
                  20R SUB-WATER SHED
                  Compute hydrograph for 20R
 667
              KM
 668
              BA
                  18.78
                         62.13
 669
              LS
                  2.990
670
              UD
                  20.6
 671
              KK
                  Com26
                  Combine two hydrographs
              ΚM
 672
              HC
673
                     2
                 DIV4
                Diversion to southern tributary of main Raymondville channel
                 DIV4
              * 0 8000 10000
* 0 50 50
 674
                  Rt27A
                  Route hydrograph to Node 27
 675
              KM
                   1
 676
              KO
                             1
                      1
                           STOR
 677
              RS
                      0 1348.58 4980.12 8035.27 10783.8 14313.8 21699.7 25397.7
              SV
 678
              SQ 0 1000 2000
                                         3000 4000 5000 7500 10000
 679
```

```
LINE
              ID......1.....2......3......4......5.....6......7......8.......9......10
 680
                   13R SUB-WATER SHED
 681
              KM
                   Compute hydrograph for 13R
 682
                  11.50
 683
              LS
                  3.032
684
              UD
              * ************
685
              KK Com27A
686
              KМ
                 Combine two hydrographs at Node 27
687
              HC 2
              * DIV4
              * Diversion from main Raymondville channel
              * DIV4
* **************
688
                  14R SUB-WATER SHED
              KK
689
                  Compute hydrograph for 14R
              KM
690
              BA
                   9.24
                 3.521
691
              LS
                          64.37
692
              UD
                   22.6
              * **************
                  Com
                Combine two hydrographs
              * 2
693
                 Rt27B
              KK
694
              ΚM
                  Route hydrograph to Node 27
695
              KO
                   1
                             1
                           STOR
696
              RS
697
                7 0 118.49 170.85 226.03 273.73 485.95 500.0
0 0 48.6 83.88 129.49 173.38 228.78 20000.0
              sv
              SQ
699
              KK Com27B
700
              KM
                 Combine two hydrographs at Node 27
701
702
              KK
                   Rt28
703
              КМ
                  Route hydrograph to Node 28
704
                  1 1
                            1
705
              RS
                           STOR
                                     -1
               V 0 312.83 999.33 1918.42 2687.59 3301.82 4973.7 6268.16
Q 0 1000 2000 3000 4000 5000 7500 10000
706
              sv
707
              SQ
708
              ĸк
                  11R SUB-WATER SHED
709
             KM
                  Compute hydrograph for 11R
710
              BA
                  10.09
711
                 3.768
              LS
                          61.13
712
              UD
                   11.0
```

HEC-1 INPUT

```
ID.....1.....2.....3......4,.....5.....6......7.....8.....9.....10
LINE
 713
             KK Com28A
 714
             KM
                 Combine two hydrographs at Node 28
 715
             HC 2
716
             KK
                   8R SUB-WATER SHED
             KM
                  Compute hydrograph for 8R
 717
 718
             BA
                  11.62
                  5.671
 719
             LS
                         61.49
 720
             UD
                   11.8
 721
             KK Com28B
                 Combine two hydrographs at Node 28
             HC 2
 723
724
             KK
                  Rt29
725
             KΜ
                  Route hydrograph to Node 29
                   1 1 5
 726
             KO
                          STOR
                                   -1
 727
             RS
                   0
                     0 449.95 1513.48 2080.16 2620.81 3076.31 4216.6 5147.07
 728
             SV
             SQ 0 1000 2000
 729
                                       3000
                                              4000 5000
                                                             7500 10000
730
             KK
                  10R SUB-WATER SHED
             KM Compute hydrograph for 10R
 731
 732
             AG
                21.47
2.724
             LS
                            60
 733
             UD
                  19.2
 734
             * ***********
735
             KK Com29
             KM Combine two hydrographs at Node 29
 736
             HC 2
 738
             KK
                  Rt30
739
                  Route hydrograph to Node 30
 740
             ко
                          STOR
 741
             RS
             SV 0 208.42 1163.8 1980.35 2627.06 3136.14 4076.55 4891.57 SQ 0 1000 2000 3000 4000 5000 7500 10000
 742
 743
 744
                  6R SUB-WATER SHED
             KK
 745
             КM
                  Compute hydrograph for 6R
 746
             BA
                  16.37
                  3.175
                            60
 747
             LS
             UD
 748
                  28.0
```

```
LINE
             ID.....1....2....3.....4.....5....6......7.....8.....9....10
749
             KK Com30A
 750
             KM Combine two hydrographs at Node 30
751
752
                  4R SUB-WATER SHED
                 Compute hydrograph for 4R
 753
             KM
754
                  4.73
             BA
                 2.992
             LS
                            60
 755
             UD
              UD 15.9
 756
 757
             KK Com30B
 758
                 Combine two hydrographs at Node 30
760
                  Rt31
                  Route hydrograph to Node 31
 761
             KM
                  1 1
1 STOR
 762
             KO
                            1
                                   -1
 763
             SV 0 555.09 2027.13 2913.81 3589.64 4070.74 5120.11 6031.24 
SQ 0 1000 2000 3000 4000 5000 7500 10000
             RS
 764
 765
 766
             KK
                  2R SUB-WATER SHED
 767
                 Compute hydrograph for 2R
             KM
 768
              BA
                 1.806
              UD 11.4
 770
 771
             KK Com31A
             KM Combine two hydrographs at Node 31
 772
 773
              HC
                     2
 774
                  3R SUB-WATER SHED
                 Compute hydrograph for 3R
 775
              KM
 776
              BA
                  4.47
              LS 2.472 60
UD 13.8
 779
              KM Combine two hydrographs at Node 31
 780
              HC 2
 781
```

```
LINE
             ID......1.....2......3......4......5......6......7......8......9.....10
782
             KK
                  Rt32
 783
             KM
                  Route hydrograph to Node 32
                   1
 784
             KO
                           1
785
             RS
                     1
                          STOR
                                   -1
786
             sv
                     0 1067.34 3337.22
                                         4909 6271.22 7335.81 9532.02 11388.7
787
             SQ 0 1000 2000
* ********
                                        3000
                                               4000
                                                     5000 7500 10000
788
             KK
                  1R SUB-WATER SHED
789
                  Compute hydrograph for 1R
             KM
790
                 16.89
791
             LS
                 1.395
                            60
792
             UD
                  19.6
             * ***********
793
             KK
                  Com32
794
             KM
                 Combine two hydrographs at Node 32
795
796
             KK
                 Diversion from Raymondville main channel to La Sal Viejo
797
             KM
798
799
             KK
                 17R SUB-WATER SHED
800
             KM
               Compute hydrograph for 17R
801
             BA
                  6.47
802
             LS
                 2.955
             UD 19.1
803
804
             KK Com33A
                Combine two hydrographs at La Sal Viejo
805
             KМ
806
             HC 2
807
             KK
                 23R SUB-WATER SHED
808
             KM
                 Compute hydrograph for 23R
                 94.54
809
             BA
810
                2.901
811
             UD
                  68.9
             * ***********
812
                Combine two hydrographs at La Sal Viejo
813
             KM
814
```

| 1 | HEC-1 INPUT | PAGE 25 |
|---|-------------|---------|
|   |             |         |

| LINE | ID.     | 1     | 2          | 3       | 4      | 5.    | 6.    | 7     | 8 | 9 |
|------|---------|-------|------------|---------|--------|-------|-------|-------|---|---|
| 815  | KK      | LSV   |            |         |        |       |       |       |   |   |
| 816  | KM      | Route | hydrograph | through | La Sal | Viejo |       |       |   |   |
| 817  | ко      | 1     | 1          |         |        |       |       |       |   |   |
| 818  | RS      | 1     | STOR       | -1      |        |       |       |       |   |   |
| 819  | vz      | 0     | 1690       | 4532    | 9730   | 17040 | 18480 | 19000 |   |   |
| 820  | sQ<br>* | 0     | 163        | 465     | 825    | 1230  | 1490  | 1550  |   |   |
| 821  | 2.2     |       |            |         |        |       |       |       |   |   |

| INPUT | SCHEMATIC DIA   | GRAM OF STREAM NETWORK                |
|-------|-----------------|---------------------------------------|
| LINE  | (V) ROUTING     | (>) DIVERSION OR PUMP FLOW            |
| NO.   | (.) CONNECTOR   | (<) RETURN OF DIVERTED OR PUMPED FLOW |
| 5     | SC-7A           |                                       |
|       | V<br>V          |                                       |
| 11    | 1R              |                                       |
|       | •               |                                       |
| 17    | . SC-7B         |                                       |
|       | : :             |                                       |
| 22    | 1C              |                                       |
|       | v<br>v          |                                       |
| 25    | 2R              |                                       |
|       | •               |                                       |
| 31    | . SC-7C         |                                       |
|       |                 |                                       |
| 36    | •               | SC-6A                                 |
|       |                 | •                                     |
| 41    | 2C              | •                                     |
|       | v<br>v          |                                       |
| 44    | ЗR              |                                       |
|       | •               |                                       |
| 50    | . SC-6B         |                                       |
|       |                 |                                       |
| 55    | • • •           | SC-7D                                 |
|       |                 | V                                     |
| 60    |                 | V<br>3R                               |
|       |                 | •                                     |
| 66    | зс              | •                                     |
|       | V<br>V          |                                       |
| 69    | 4R              |                                       |
|       | •               |                                       |
| 74    | SC5A            |                                       |
|       | . V             |                                       |
| 79    | . 5ACANA        |                                       |
|       | . v             |                                       |
| 88    | - V<br>- 5AROUT |                                       |
|       |                 |                                       |
| 94    |                 | SC5A1                                 |
|       |                 | •                                     |
| 99    | 5AA1            | •                                     |
|       | . v             |                                       |
| 102   | - 5A1CAN        |                                       |
|       | . V             |                                       |
| L09   | 5 <b>A1</b> RT  |                                       |
|       |                 |                                       |
| 15    |                 | SC5B                                  |
|       |                 | •                                     |
| 20    | 4C1             | •                                     |
|       | •               |                                       |
| .23   |                 | SC-4A                                 |
|       |                 | V                                     |
| .28   | •               | V<br>4ACANA                           |
|       |                 | V                                     |

|            |         |   | v                                       |                                       |
|------------|---------|---|---|---------------------------------------|
|            |         |   | 4AROUT                                  | ·                                     |
| 143        | -       |   |   | SC-4A1                                |
|            | -       | •                                       | •                                       | •                                     |
| 148        | -       | :                                       | SC4AA1.                                 | · · · · · · · · · · · · · · · · · · · |
|            |         |   | V                                       |                                       |
| 151        |         | •                                       | 4A1CAN<br>V                             |                                       |
| 160        | •       |   | V<br>4A1ROU                             |                                       |
|            | •       | •                                       | •                                       |                                       |
| 166        | :       | •                                       | •                                       | SC-4B                                 |
|            | :       | :                                       |   | •                                     |
| 171        | :       | •                                       | SC4AAB.<br>V                            |                                       |
| 174        |         | •                                       | V<br>4BCANA                             |                                       |
|            |         | •                                       | v<br>v                                  |                                       |
| 183        | :       | •                                       | 4AABRT                                  |                                       |
|            | •       | •                                       | •                                       | aa 401                                |
| 189        | •       |   | •                                       | SC-4B1                                |
| 194        |         |   | SC-4.                                   |                                       |
|            | •       |   |   |                                       |
| 197        | 4C2     |   | • |                                       |
| 200        | V       |   |   |                                       |
| 200        | 5R<br>• |   |   |                                       |
| ,          | •       | sc-3                                    |   |                                       |
|            |         | •                                       |   |                                       |
| 210        | 5C      |   |   |                                       |
| 215        |         | > DIV                                   | 1                                       |                                       |
| 213        | DIVI    | , 511                                   | •                                       |                                       |
|            | V<br>V  |   |   |                                       |
| 218        | 6R      |   |   |                                       |
| 223        |         | SC-3B                                   |   |                                       |
|            |         | •                                       |   |                                       |
| 228        | 6C<br>V |   |   |                                       |
| 221        | A       |   |   |                                       |
| 231        | 7R<br>- |   |   |                                       |
| 236        |         | SC-2                                    |   |                                       |
|            |         | •                                       |   |                                       |
| 241        | 7C<br>V | • • • • • • • • • • •                   |   |                                       |
| 244        | V<br>8R |   |   |                                       |
| 244        | •       |   |   |                                       |
| 249        | •       | SC-1                                    |   |                                       |
|            |         | •                                       |   |                                       |
| 254        | 8C1     | • |   |                                       |
| 257        | •       | SC-8                                    |   |                                       |
| 3,         |         | V<br>V                                  |   |                                       |
| <b>∠62</b> | •       | 1BR                                     |   |                                       |
|            |         |   |   |                                       |

| 268 | •       | •        | SM-1 |
|-----|---------|----------|------|
| 273 | :       | 1BC1     |      |
|     | •       | •        |      |
| 276 |         |          | SM-1 |
|     | •       |          |      |
| 281 |         | 1BC2     |      |
|     |         | v<br>v   |      |
| 284 |         | 2BR      |      |
|     | •       |          |      |
| 290 |         |          | SM-1 |
|     |         | :        |      |
| 295 |         | 2BC      |      |
|     | •       | v<br>V   |      |
| 298 |         | 3BR      |      |
|     | •       |          |      |
| 304 |         | :        | SM-1 |
|     | •       |          |      |
| 309 | :       | 3BC      |      |
|     | •       | V        |      |
| 312 | :       | 4BR      |      |
|     | •       | •        |      |
| 318 | •       | -        | SM-1 |
|     |         | •        |      |
| 323 |         | 4BC      |      |
|     | •       | V        |      |
| 326 | •       | V<br>8BR |      |
| 520 |         |          |      |
| 332 | -       | -        | CN 1 |
| 332 | •       | •        | SM-1 |
| 227 | •       |          |      |
| 337 |         | BC2.     |      |
| 2.0 |         |          |      |
| 340 | RC3     | <b></b>  |      |
|     | v       |          |      |
| 343 | 9R      |          |      |
|     |         |          |      |
| 349 |         | 29S      |      |
|     |         |          |      |
| 354 |         |          |      |
|     |         |          |      |
| 357 |         | 285      |      |
|     | •       | :        |      |
| 362 | Com9B   |          |      |
|     | V       |          |      |
| 365 | Rt10    |          |      |
|     |         |          |      |
| 372 |         | > Г      | OIV2 |
| 370 | DIV2    |          |      |
|     |         |          |      |
| 375 | -       | 27S      |      |
|     | -       |          |      |
| 380 | Com10A. |          |      |
|     |         |          |      |

| 3   |                | 265                                     |     |
|-----|----------------|---|-----|
| 388 |                |   | 24S |
| 393 | V              |   |     |
| 396 | V<br>Rt11      |   |     |
| 401 |                | 225                                     |     |
| 406 | Com11A         | • |     |
| 409 |                | 205                                     |     |
| 414 | v              |   |     |
| 417 | Rt12           |   |     |
| 427 |                | 18S                                     |     |
| 430 | V<br>V<br>Rt13 |   |     |
| 435 | :              | 168                                     |     |
|     | Coml3A         |   |     |
| 443 | :              | 158                                     |     |
| 448 |                |   |     |
| 451 | V<br>Rt14      |   |     |
| 456 | :<br>:         | 13s                                     |     |
| 461 | Coml4A         |   |     |
| 464 | :              | 148                                     |     |
| 469 | Com14B.<br>V   |   |     |
| 472 | Rt15           |   |     |
| 477 | ·<br>·         | 118                                     |     |
| 482 | v<br>v         |   |     |
| 490 | Rt16           | 78                                      |     |
| ;   | . Com16        |   |     |
| •   | v<br>v         |   |     |

| 498        | Rt17      |                   |       |
|------------|-----------|-------------------|-------|
| 503        |           | 6S                |       |
| 508        | Com17.    |                   |       |
| 511        | V<br>Rt18 |                   |       |
| 516        |           | <b>4</b> S        |       |
| 521        | Com18A.   |                   |       |
| 524        |           | 3S                |       |
| 529        | Com18B    |                   |       |
| 532        | V<br>Rt19 |                   |       |
| 537        | •         | 2S                |       |
| 542        | Com19A    |                   |       |
| 545        | •         | 18                |       |
| 550        | Com19B    | ·····             |       |
| 555<br>553 | •         | .<<br>DIV1        | DIV1  |
| 556        | •         |                   | SC-3A |
|            |           |                   |       |
| 561        | •         | 20C.<br>V<br>V    |       |
| 564        | •         | 21R               | 20-P  |
| 569        | •         |                   | 29aR  |
| 574        |           | Com21A.           |       |
| 577        | •         |                   | 29R   |
| 582        | •         | Com21B.<br>V<br>V |       |
| 585        | •         | 22R<br>-          |       |
| 590        | •         | :                 | 28aR  |
| 595        |           | Com22.<br>V       |       |
| 598        |           | Rt23              |       |
| 604        |           | :                 | 24R   |
| 609        | •         | Com23A.           | •     |

| -   |   |             |                       |         |           |
|-----|---|-------------|-----------------------|---------|-----------|
|     | : |             | . 281                 | ,       |           |
|     | - |             | . 201                 |         |           |
| 617 |   |             |                       |         |           |
| 91, | • |             | •                     | - 25R   |           |
|     | • |             | •                     | •       |           |
| 622 | • |             | •                     | •       |           |
|     | : |             | •                     |         | - 27R     |
|     | - |             | •                     | •       |           |
| 627 |   |             | . Com                 |         | •         |
|     |   |             | ·                     | V       | ********* |
| 620 | • |             |                       | v       |           |
| 630 | • |             | · Rt:                 |         |           |
|     | • |             | •                     | •       |           |
| 633 | • |             | •                     |         |           |
| 000 | • |             | •                     | · 22R   |           |
|     | • | •           | •                     | •       | •         |
| 638 | • | •           |                       |         |           |
|     |   | •           | Com2                  | 25      |           |
|     |   | •           |                       | •       |           |
| 641 |   |             |                       | . 100   |           |
|     |   | _           |                       | • 19R   |           |
| 646 | • |             |                       |         | •         |
| 040 | - | Com23B      |                       |         | •         |
|     | • | v           |                       |         |           |
| 649 | • | V           |                       |         |           |
|     | • | Rt26A       |                       |         |           |
|     | • | •           |                       |         |           |
| 657 | - | ٠.          |                       | D.T.1.0 |           |
| 655 |   | DIV3        | >                     | DIV3    |           |
|     |   | v           |                       |         |           |
|     |   | v           |                       |         |           |
| 660 | • | Rt26B       |                       |         |           |
|     | • |             |                       |         |           |
| 666 | • |             |                       |         |           |
| 000 | • | •           | 20R                   |         |           |
|     | • | •           | •                     |         |           |
| 1   | • | Com26.      | ,                     |         |           |
|     | • | Com≥6.<br>V | • • • • • • • • • • • |         |           |
|     |   | v           |                       |         |           |
| 674 |   | Rt27A       |                       |         |           |
|     |   |             |                       |         |           |
| 600 |   |             |                       |         |           |
| 680 | • |             | 13R                   |         |           |
|     | • |             |                       |         |           |
| 685 | - |             |                       |         |           |
| 003 | • | Com27A      |                       |         |           |
|     | • | •           |                       |         |           |
| 688 |   | •           | 145                   |         |           |
|     |   | •           | 14R<br>V              |         |           |
|     |   |             | v                     |         |           |
| 693 | • |             | Rt27B                 |         |           |
|     | • |             | -1047.5               |         |           |
| 699 | • |             |                       |         |           |
| 033 | • |             | • • • • • • • • • •   |         |           |
|     | • | v           |                       |         |           |
| 702 | • | V V         |                       |         |           |
|     | • | Rt28        |                       |         |           |
|     |   | •           |                       |         |           |
| 708 |   | •           | 11R                   |         |           |
|     |   |             | TIK .                 |         |           |
| 710 |   |             | :                     |         |           |
| 713 | • | Com28A      |                       |         |           |
|     | • | •           |                       |         |           |
| 716 | • | -           |                       |         |           |
|     | • | •           | 8R                    |         |           |
|     | • | •           | •                     |         |           |
| 721 |   | <br>Coπ28Β  | •                     |         |           |
|     | • | V V         | • • • • • • • • •     |         |           |
|     |   | v           |                       |         |           |
| 724 | • | Rt29        |                       |         |           |
|     |   |             |                       |         |           |
| ۰.0 | • |             |                       |         |           |
| 0د  | • |             | 10R                   |         |           |
|     |   |             |                       |         |           |
|     |   |             |                       |         |           |

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| 735   |   | Com29   |                                       |     |      |
|-------|---|---------|---------------------------------------|-----|------|
|       |   | V       |                                       |     |      |
|       |   | V       |                                       |     |      |
| 738   | • | Rt30    |                                       |     |      |
|       | • |         |                                       |     |      |
|       | • |         |                                       |     |      |
| 744   |   | •       | 6R                                    |     |      |
|       | • |         |                                       | •   |      |
| 749   | • | 0207    |                                       | •   |      |
| 743   | • | COMSOA  | • • • • • • • • • • •                 | •   |      |
|       | • | •       |                                       |     |      |
| 752   |   | •       | 4R                                    |     |      |
|       | • | •       | 417                                   |     |      |
|       |   | :       |                                       |     |      |
| 757   |   | Com30B  |                                       |     |      |
|       |   | v       |                                       |     |      |
|       |   | v       |                                       |     |      |
| 760   |   | Rt31    |                                       |     |      |
|       |   |         |                                       |     |      |
|       | • |         |                                       |     |      |
| 766   |   |         | 2R                                    |     |      |
|       |   |         |                                       | •   |      |
| 771   | • | 0212    |                                       | •   |      |
| 771   | • | COM31A. |                                       | •   |      |
|       | • | •       |                                       |     |      |
| 774   | • |         | 3R                                    |     |      |
| , , , | • | •       | JK .                                  |     |      |
|       |   |         |                                       |     |      |
| 779   |   | Com31B. |                                       |     |      |
|       |   | v       |                                       |     |      |
|       |   | v       |                                       |     |      |
| 782   |   | Rt32    |                                       |     |      |
|       |   |         |                                       |     |      |
|       |   |         |                                       |     |      |
| 788   |   |         | 1R                                    |     |      |
|       |   | •       |                                       |     |      |
| 702   |   |         |                                       |     |      |
| 793   |   | Com32.  | · · · · · · · · · · · · · · · · · · · |     |      |
|       |   | -       |                                       |     |      |
| 798   | • | •       |                                       | <   | בענט |
| 796   |   |         | DIV3                                  |     | DIVS |
|       |   |         | 2112                                  |     |      |
|       |   |         |                                       |     |      |
| 799   |   |         |                                       | 17R |      |
|       |   |         |                                       |     |      |
|       |   |         |                                       |     |      |
| 804   |   |         | Com33A                                | ٠   |      |
|       |   | •       |                                       |     |      |
| 007   |   | •       |                                       |     |      |
| 807   | • | •       | •                                     | 23R |      |
|       |   |         |                                       |     | •    |
| 812   | • | •       | Compan.                               | 3   | •    |
| 012   | • | •       | Comase                                |     |      |
|       |   | •       | V                                     |     |      |
| 815   |   |         | LSV                                   |     |      |
|       | - | •       | 201                                   |     |      |

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

# RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|                   | OPERATION               | STATION        | PEAK<br>FLOW | TIME OF        | AVERAGE     | E FLOW FOR MAXIMUM PERIOD |             | BASIN        | MAXIMUM | TIME OF   |
|-------------------|-------------------------|----------------|--------------|----------------|-------------|---------------------------|-------------|--------------|---------|-----------|
| +                 | OF EIGHT TON            | STATION        | FLOW         | PEAK           | 6-HOUR      | 24-HOUR                   | 72-HOUR     | AREA         | STAGE   | MAX STAGE |
| +                 | HYDROGRAPH AT           | SC-7A          | 13.          | 72.00          | 13.         | 12.                       | 10.         | 18.40        |         |           |
| +                 | ROUTED TO               | 1 <b>R</b>     | 12.          | 81.00          | 12.         | 12.                       | 10.         | 18.40        |         |           |
| +                 | HYDROGRAPH AT           | SC-7B          | 44.          | 37.00          | 44.         | 36.                       | 17.         | 9.82         |         |           |
| +                 | 2 COMBINED AT           | 1C             | 45.          | 38.00          | 44.         | 38.                       | 24.         | 28.22        |         |           |
| +                 | ROUTED TO HYDROGRAPH AT | 2R             | 42.          | 46.00          | 42.         | 36.                       | 23.         | 28.22        |         |           |
| +                 | HYDROGRAPH AT           | SC-7C          | 97.          | 44.00          | 97.         | 87.                       | 49.         | 23.00        |         |           |
| +                 | 3 COMBINED AT           | SC-6A          | 159.         | 67.00          | 159.        | 154.                      | 119.        | 41.66        |         |           |
| +                 | ROUTED TO               | 2C             | 256.         | 53.00          | 255.        | 243.                      | 186.        | 92.88        |         |           |
| +                 | HYDROGRAPH AT           | 3R             | 255.         | 55.00          | 254.        | 243.                      | 185.        | 92.88        |         |           |
|                   | HYDROGRAPH AT           | SC-6B<br>SC-7D | 271.         | 37.00<br>42.00 | 268.<br>40. | 231.<br>35.               | 116.<br>19. | 6.58<br>6.15 |         |           |
| +                 | ROUTED TO               | 3R             | 39.          | 45.00          | 38.         | 34.                       | 19.         | 6.15         |         |           |
| +                 | 3 COMBINED AT           | 3C             | 482.         | 44.00          | 478.        | 437.                      | 305.        | 105.61       |         |           |
| +                 | ROUTED TO               | 4R             | 477.         | 46.00          | 473.        | 434.                      | 305.        | 105.61       |         |           |
| +                 | HYDROGRAPH AT           | SC5A           | 491.         | 66.00          | 491.        | 476.                      | 369.        | 38.43        |         |           |
| <del>+</del><br>+ | ROUTED TO               | 5 <b>ACANA</b> | 418.         | 82.00          | 415.        | 374.                      | 233.        | 38.43        | 140.85  | 82.00     |
| +                 | ROUTED TO               | 5 <b>AROUT</b> | 417.         | 86.00          | 414.        | 373.                      | 230.        | 38.43        |         |           |
| +                 | HYDROGRAPH AT           | SC5A1          | 329.         | 29.00          | 320.        | 238.                      | 98.         | 5.64         |         |           |
| +                 | 2 COMBINED AT           | 5AA1           | 418.         | 86.00          | 415.        | 373.                      | 231.        | 44.07        |         |           |
| +<br>+            | ROUTED TO               | 5A1CAN         | 340.         | 98.00          | 334.        | 279.                      | 171.        | 44.07        | 116.96  | 98.00     |
| +                 | ROUTED TO               | 5A1RT          | 338.         | 106.00         | 330.        | 273.                      | 169.        | 44.07        |         |           |
| +                 | HYDROGRAPH AT           | SC5B           | 459.         | 27.00          | 445.        | 314.                      | 123.        | 9.02         |         |           |
| +                 | 2 COMBINED AT           | 4C1            | 459.         | 27.00          | 445.        | 314.                      | 169.        | 53.09        |         |           |

| +            | HYDROGRAPH AT | SC-4A  | 557.  | 52.00  | 556.  | 52 <b>4</b> . | 350. | 30.73  |        |        |
|--------------|---------------|--------|-------|--------|-------|---------------|------|--------|--------|--------|
| <del>1</del> | ROUTED TO     | 4ACANA | 42.   | 121.00 | 42.   | 39.           | 27.  | 30.73  |        |        |
| +            |               |        |       |        |       |               |      |        | 171.84 | 121.00 |
| +            | ROUTED TO     | 4AROUT | 42.   | 126.00 | 42.   | 39.           | 27.  | 30.73  |        |        |
| +            | HYDROGRAPH AT | SC-4A1 | 502.  | 25.00  | 483.  | 311.          | 115. | 7.34   |        |        |
| <b>†</b>     | 2 COMBINED AT | SC4AA1 | 502.  | 25.00  | 483.  | 311.          | 115. | 38.07  |        |        |
| ++           | ROUTED TO     | 4A1CAN | 205.  | 35.00  | 179.  | 89.           | 32.  | 38.07  | 141.07 | 35.00  |
| +            | ROUTED TO     | 4A1ROU | 201.  | 38.00  | 175.  | 89.           | 32.  | 38.07  |        |        |
| +            | HYDROGRAPH AT | SC-4B  | 368.  | 21.00  | 340.  | 173.          | 59.  | 5.44   |        |        |
| +            | 2 COMBINED AT | SC4AAB | 368.  | 21.00  | 340.  | 194.          | 91.  | 43.51  |        |        |
| + +          | ROUTED TO     | 4BCANA | 196.  | 40.00  | 174.  | 94.           | 35.  | 43.51  | 113.75 | 40.00  |
| +            | ROUTED TO     | 4AABRT | 192.  | 44.00  | 169.  | 93.           | 35.  | 43.51  |        |        |
| +            | HYDROGRAPH AT | SC-4B1 | 338.  | 26.00  | 326.  | 223.          | 86.  | 6.07   |        |        |
| +            | 2 COMBINED AT | SC-4   | 338.  | 26.00  | 326.  | 230.          | 120. | 49.58  |        |        |
| +            | 3 COMBINED AT | 4C2    | 962.  | 29.00  | 947.  | 826.          | 531. | 208.28 |        |        |
| +            | ROUTED TO     | 5R     | 935.  | 31.00  | 919.  | 815.          | 529. | 208.28 |        |        |
| +            | HYDROGRAPH AT | SC-3   | 663.  | 77.00  | 662.  | 650.          | 547. | 56.44  |        |        |
| +            | 2 COMBINED AT | 5C     | 1120. | 48.00  | 1113. | 1064.         | 967. | 264.72 |        |        |
| +            | DIVERSION TO  | DIV1   | 570.  | 48.00  | 566.  | 542.          | 493. | 264.72 |        |        |
| +            | HYDROGRAPH AT | DIV1   | 550.  | 48.00  | 546.  | 522.          | 474. | 264.72 |        |        |
| +            | ROUTED TO     | 6R     | 541.  | 53.00  | 539.  | 520.          | 471. | 264.72 |        |        |
| +            | HYDROGRAPH AT | SC-3B  | 110.  | 50.00  | 110.  | 103.          | 66.  | 6.71   |        |        |
| +            | 2 COMBINED AT | 6C     | 649.  | 52.00  | 645.  | 618.          | 536. | 271.43 |        |        |
| +            | ROUTED TO     | 7R     | 648.  | 53.00  | 645.  | 618.          | 536. | 271.43 |        |        |
| +            | HYDROGRAPH AT | SC-2   | 23.   | 74.00  | 23.   | 22.           | 18.  | 11.48  |        |        |
| +            | 2 COMBINED AT | 7C     | 665.  | 53.00  | 662.  | 635.          | 552. | 282.91 |        |        |
| +            | ROUTED TO     | 8R     | 661.  | 56.00  | 658.  | 634.          | 551. | 282.91 |        |        |

|   | HYDROGRAPH AT |       |       | 52.00 |       |       |       |        |  |
|---|---------------|-------|-------|-------|-------|-------|-------|--------|--|
| + | 2 COMBINED AT | SC-1  | 197.  | 53.00 | 196.  | 186.  | 127.  | 7.07   |  |
| + |               | 8C1   | 856.  | 55.00 | 852.  | 818.  | 676.  | 289.98 |  |
| + | HYDROGRAPH AT | SC-8  | 410.  | 67.00 | 410.  | 399.  | 316.  | 19.99  |  |
| + | ROUTED TO     | 1BR   | 410.  | 71.00 | 409.  | 398.  | 315.  | 19.99  |  |
| + | HYDROGRAPH AT | SM-18 | 160.  | 72.00 | 160.  | 156.  | 125.  | 27.11  |  |
| + | 2 COMBINED AT | 1BC1  | 569.  | 71.00 | 569.  | 553.  | 440.  | 47.10  |  |
| + | HYDROGRAPH AT | SM-17 | 303.  | 50.00 | 302.  | 285.  | 187.  | 7.03   |  |
| + | 2 COMBINED AT | 1BC2  | 799.  | 62.00 | 797.  | 768.  | 608.  | 54.13  |  |
| + | ROUTED TO     | 2BR   | 799.  | 63.00 | 797.  | 768.  | 608.  | 54.13  |  |
| + | HYDROGRAPH AT | SM-16 | 263.  | 76.00 | 262.  | 257.  | 215.  | 25.18  |  |
| + | 2 COMBINED AT | 2BC   | 1044. | 65.00 | 1041. | 1008. | 918.  | 79.31  |  |
| + | ROUTED TO     | 3BR   | 1043. | 66.00 | 1041. | 1008. | 817.  | 79.31  |  |
| + | HYDROGRAPH AT | SM-15 | 291.  | 54.00 | 290.  | 277.  | 193.  | 11.10  |  |
| 4 | 2 COMBINED AT | 3BC   | 1306. | 63.00 | 1303. | 1259. | 1000. | 90.41  |  |
| + | ROUTED TO     | 4BR   | 1304. | 64.00 | 1301. | 1258. | 1000. | 90.41  |  |
| + | HYDROGRAPH AT | SM-14 | 300.  | 82.00 | 300.  | 295.  | 255.  | 21.60  |  |
| + | 2 COMBINED AT | 4BC   | 1565. | 66.00 | 1561. | 1515. | 1240. | 112.01 |  |
| + | ROUTED TO     | 8BR   | 1564. | 67.00 | 1561. | 1515. | 1240. | 112.01 |  |
| + | HYDROGRAPH AT | SM-13 | во.   | 90.00 | 80.   | 79.   | 70.   | 22.25  |  |
| + | 2 COMBINED AT | 8C2   | 1630. | 68.00 | 1627. | 1580. | 1304. | 134.26 |  |
| + | 2 COMBINED AT | 8C3   | 2416. | 64.00 | 2412. | 2348. | 1954. | 424.24 |  |
| + | ROUTED TO     | 9R    | 2414. | 67.00 | 2409. | 2345. | 1952. | 424.24 |  |
| + | HYDROGRAPH AT | 29S   | 266.  | 41.00 | 263.  | 235.  | 128.  | 12.28  |  |
| + | 2 COMBINED AT | Com9A | 2496. | 65.00 | 2492. | 2428. | 2032. | 436.52 |  |
| + | HYDROGRAPH AT | 288   | 394.  | 54.00 | 393.  | 372.  | 253.  | 25.91  |  |
| + | 2 COMBINED AT | Com9B | 2845. | 63.00 | 2839. | 2756. | 2265. | 462.43 |  |
|   | ROUTED TO     | Rt10  | 2750. | 70.00 | 2745. | 2677. | 2243. | 462.43 |  |
|   |               |       |       |       |       |       |       |        |  |

| + | DIVERSION TO             | DIV2   | 786.  | 70.00 | 784.  | 765.  | 641.  | 462.43 |
|---|--------------------------|--------|-------|-------|-------|-------|-------|--------|
| + | HYDROGRAPH AT            | DIV2   | 1964. | 70.00 | 1961. | 1912. | 1602. | 462.43 |
| + | HYDROGRAPH AT            | 27S    | 472.  | 29.00 | 460.  | 343.  | 141.  | 12.15  |
| + | 2 COMBINED AT            | Com10A | 1974. | 70.00 | 1970. | 1923. | 1627. | 474.58 |
| + | HYDROGRAPH AT            | 268    | 448.  | 28.00 | 436.  | 314.  | 125.  | 10.55  |
| + | HYDROGRAPH AT            | 24S    | 157.  | 29.00 | 153.  | 114.  | 47.   | 3.83   |
| + | 3 COMBINED AT            | Com10B | 1983. | 69.00 | 1980. | 1935. | 1658. | 488.96 |
| + | ROUTED TO                | Rt11   | 1980. | 71.00 | 1977. | 1933. | 1658. | 488.96 |
| + | HYDROGRAPH AT            | 22\$   | 227.  | 35.00 | 224.  | 187.  | 89.   | 7.55   |
| + | 2 COMBINED AT            | Com11A | 2001. | 70.00 | 1998. | 1957. | 1718. | 496.51 |
| + | HYDROGRAPH AT            | 20S    | 268.  | 39.00 | 265.  | 232.  | 121.  | 10.57  |
| + | 2 COMBINED AT            | Com11B | 2053. | 68.00 | 2050. | 2016. | 1823. | 507.08 |
| + | ROUTED TO                | Rt12   | 2046. | 71.00 | 2044. | 2014. | 1821. | 507.08 |
| + | HYDROGRAPH AT            | 188    | 168.  | 31.00 | 165.  | 128.  | 55.   | 4.69   |
| + | 2 COMBINED AT            | Com12  | 2051. | 71.00 | 2049. | 2023. | 1857. | 511.77 |
| + | ROUTED TO                | Rt13   | 2049, | 73.00 | 2047. | 2023. | 1857. | 511.77 |
| + | HYDROGRAPH AT            | 168    | 159.  | 39.00 | 158.  | 130.  | 71.   | 9.60   |
| + | 2 COMBINED AT            | Com13A | 2074. | 71.00 | 2073. | 2060. | 1919. | 521.37 |
| + | HYDROGRAPH AT            | 158    | 289.  | 52.00 | 287.  | 270.  | 178.  | 25.08  |
| + | 2 COMBINED AT            | Com13B | 2351. | 51.00 | 2343. | 2311. | 2096. | 546.45 |
| + | ROUTED TO                | Rt14   | 2282. | 68.00 | 2282. | 2268. | 2085. | 546.45 |
| + | HYDROGRAPH AT            | 138    | 216.  | 48.00 | 215.  | 199.  | 124.  | 19.76  |
| + | 2 COMBINED AT            | Com14A | 2440. | 59.00 | 2439. | 2413. | 2203. | 566.21 |
| + | HYDROGRAPH AT            | 148    | 230.  | 38.00 | 227.  | 196.  | 100.  | 9.53   |
| + | 2 COMBINED AT            | Com14B | 2533. | 54.00 | 2530. | 2506. | 2285. | 575.74 |
| + | ROUTED TO  HYDROGRAPH AT | Rt15   | 2487. | 63.00 | 2486. | 2466. | 2281. | 575.74 |
| + | ATDMOGRAFI AT            | 118    | 376.  | 26.00 | 364.  | 250.  | 96.   | 8.20   |

|   | 2 COMBINED AT |        |       |       |       |       |         |        |
|---|---------------|--------|-------|-------|-------|-------|---------|--------|
| + | 2 COMBINED AT | Com15  | 2493. | 63.00 | 2492. | 2474. | · 2315. | 583.94 |
| + | ROUTED TO     | Rt16   | 2466. | 71.00 | 2465. | 2449. | 2309.   | 583.94 |
| + | HYDROGRAPH AT | 78     | 390.  | 54.00 | 389.  | 368.  | 249.    | 29.41  |
| + | 2 COMBINED AT | Com16  | 2790. | 62.00 | 2788. | 2760. | 2553.   | 613.35 |
| + | ROUTED TO     | Rt17   | 2788. | 64.00 | 2786. | 2758. | 2536.   | 613.35 |
| + | HYDROGRAPH AT | 68     | 537.  | 27.00 | 521.  | 365.  | 142.    | 9.21   |
| + | 2 COMBINED AT | Com17  | 2798. | 63.00 | 2796. | 2772. | 2573.   | 622.56 |
| + | ROUTED TO     | Rt18   | 2797. | 65.00 | 2795. | 2770. | 2565.   | 622.56 |
| + | HYDROGRAPH AT | 45     | 796.  | 34.00 | 783.  | 647.  | 303.    | 22.35  |
| + | 2 COMBINED AT | Com18A | 3101. | 43.00 | 3082. | 3000. | 2738.   | 644.91 |
| + | HYDROGRAPH AT | 38     | 310.  | 30.00 | 302.  | 231.  | 98.     | 4.49   |
| + | 2 COMBINED AT | Com18B | 3240. | 42.00 | 3212. | 3080. | 2783.   | 649.40 |
|   | ROUTED TO     |        |       |       | 52221 | 3000. | 2.00.   | 017.10 |
| + |               | Rt19   | 3234. | 43.00 | 3209. | 3079. | 2782.   | 649.40 |
| + | HYDROGRAPH AT | 2S     | 577.  | 23.00 | 552.  | 338.  | 122.    | 5.35   |
| + | 2 COMBINED AT | Com19A | 3290. | 42.00 | 3260. | 3108. | 2803.   | 654.75 |
| + | HYDROGRAPH AT | 18     | 350.  | 35.00 | 345.  | 289.  | 137.    | 7.47   |
| + | 2 COMBINED AT | Com19B | 3574. | 41.00 | 3537. | 3300. | 2907.   | 662.22 |
| + | HYDROGRAPH AT | DIV1   | 570.  | 48.00 | 566.  | 542.  | 493.    | 0.00   |
| + | HYDROGRAPH AT | SC-3A  | 91.   | 72.00 | 91.   | 89.   | 73.     | 5.87   |
| + | 2 COMBINED AT | 20C    | 629.  | 50.00 | 627.  | 615.  | 558.    | 5.87   |
| + | ROUTED TO     | 21R    | 621.  | 55.00 | 620.  | 612.  | 553.    | 5.87   |
| + | HYDROGRAPH AT | 29aR   | 73.   | 37.00 | 72.   | 61.   | 31.     | 4.84   |
| + | 2 COMBINED AT | Com21A | 656.  | 52.00 | 654.  | 638.  | 579.    | 10.71  |
| + | HYDROGRAPH AT | 29R    | 121.  | 47.00 | 120.  | 111.  | 67.     | 18.03  |
| + | 2 COMBINED AT | Com21B | 773.  | 51.00 | 770.  | 742.  | 645.    | 28.74  |
| + | ROUTED TO     | 22R    | 769.  | 53.00 | 766.  | 741.  | 642.    | 28.74  |
| + | HYDROGRAPH AT | 28aR   | 12.   | 30.00 | 12.   | 8.    | 3.      | 2.35   |

| + | 2 COMBINED AT | Com22  | 770.  | 53.00 | 767.  | 742.  | 644.  | 31.09  |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|
| + | ROUTED TO     | Rt23   | 688.  | 69.00 | 687.  | 677.  | 604.  | 31.09  |
| + | HYDROGRAPH AT | 24R    | 188.  | 50.00 | 187.  | 175.  | 112.  | 22.22  |
| + | 2 COMBINED AT | Com23A | 831.  | 62.00 | 829.  | 807.  | 696.  | 53.31  |
| + | HYDROGRAPH AT | 28R    | 0.    | 1.00  | 0.    | 0.    | 0.    | 4.68   |
| + | HYDROGRAPH AT | 25R    | 101.  | 38.00 | 100.  | 86.   | 43.   | 8.99   |
| + | HYDROGRAPH AT | 27R    | 243.  | 50.00 | 241.  | 225.  | 144.  | 23.93  |
| + | 3 COMBINED AT | Com24  | 322.  | 45.00 | 320.  | 295.  | 186.  | 37.60  |
| + | ROUTED TO     | Rt25   | 314.  | 53.00 | 312.  | 289.  | 183.  | 37.60  |
| + | HYDROGRAPH AT | 22R    | 403.  | 46.00 | 401.  | 369.  | 223.  | 18.04  |
| + | 2 COMBINED AT | Com25  | 699.  | 49.00 | 695.  | 638.  | 397.  | 55.64  |
| + | HYDROGRAPH AT | 19R    | 91.   | 41.00 | 80.   | 71.   | 38.   | 11.18  |
| + | 3 COMBINED AT | Com23B | 1523. | 53.00 | 1518. | 1445. | 1103. | 120.13 |
| + | ROUTED TO     | Rt26A  | 1523. | 53.00 | 1518. | 1445. | 1103. | 120.13 |
| + | DIVERSION TO  | DIV3   | 852.  | 53.00 | 850.  | 815.  | 610.  | 120.13 |
| + | HYDROGRAPH AT | DIV3   | 671.  | 53.00 | 668.  | 630.  | 485.  | 120.13 |
| + | ROUTED TO     | Rt26B  | 666.  | 55.00 | 663.  | 626.  | 484.  | 120.13 |
| + | HYDROGRAPH AT | 20R    | 529.  | 35.00 | 521.  | 438.  | 211.  | 18.78  |
| + | 2 COMBINED AT | Com26  | 942.  | 43.00 | 935.  | 881.  | 656.  | 138.91 |
| ÷ | ROUTED TO     | Rt27A  | 749.  | 61.00 | 747.  | 726.  | 601.  | 138.91 |
| + | HYDROGRAPH AT | 13R    | 378.  | 31.00 | 371.  | 288.  | 124.  | 11.50  |
| + | 2 COMBINED AT | Com27A | 787.  | 57.00 | 786.  | 771.  | 672.  | 150.41 |
| + | HYDROGRAPH AT | 14R    | 201.  | 37.00 | 198.  | 171.  | 87.   | 9.24   |
| + | ROUTED TO     | Rt27B  | 128.  | 50.00 | 127.  | 115.  | 74.   | 9.24   |
| + | 2 COMBINED AT | Com27B | 908.  | 54.00 | 906.  | 884.  | 746.  | 159.65 |
| ÷ | ROUTED TO     | Rt28   | 900.  | 58.00 | 899.  | 877.  | 741.  | 159.65 |
| + | HYDROGRAPH AT | 11R    | 318.  | 26.00 | 307.  | 203.  | 76.   | 10.09  |
|   |               |        |       |       |       |       |       |        |

|   | 2 COMBINED AT |            |       |        |       |       |       |        |  |
|---|---------------|------------|-------|--------|-------|-------|-------|--------|--|
|   | Z COMBINED AT | Com28A     | 907.  | 57.00  | 906.  | 887.  | 777.  | 169.74 |  |
| + | HYDROGRAPH AT | 8R         | 43.   | 30.00  | 41.   | 28.   | 11.   | 11.62  |  |
| + | 2 COMBINED AT | Com28B     | 909.  | 56.00  | 908.  | 891.  | 787.  | 181.36 |  |
| + | ROUTED TO     | Rt29       | 899.  | 61.00  | 898.  | 882.  | 775.  | 181.36 |  |
| + | HYDROGRAPH AT | 10R        | 682.  | 34.00  | 671.  | 551.  | 256.  | 21.47  |  |
| + | 2 COMBINED AT | Com29      | 1375. | 37.00  | 1366. | 1253. | 995.  | 202.83 |  |
| + | ROUTED TO     | Rt30       | 1227. | 45.00  | 1224. | 1186. | 990.  | 202.83 |  |
| + | HYDROGRAPH AT | 6R         | 301.  | 43.00  | 298.  | 270.  | 154.  | 16.37  |  |
| + | 2 COMBINED AT | Com30A     | 1526. | 44.00  | 1519. | 1451. | 1140. | 219.20 |  |
| + | HYDROGRAPH AT | 4R         | 167.  | 30.00  | 163.  | 125.  | 53.   | 4.73   |  |
| + | 2 COMBINED AT | Com30B     | 1597. | 43.00  | 1591. | 1524. | 1184. | 223.93 |  |
| + | ROUTED TO     | Rt31       | 1369. | 57.00  | 1367. | 1341. | 1154. | 223.93 |  |
| + | HYDROGRAPH AT | 2 <b>R</b> | 420.  | 25.00  | 403.  | 265.  | 99.   | 5.58   |  |
|   | 2 COMBINED AT | Com31A     | 1379. | 56.00  | 1377. | 1354. | 1198. | 229.51 |  |
| + | HYDROGRAPH AT | 3R         | 223.  | 28.00  | 217.  | 157.  | 63.   | 4.47   |  |
| + | 2 COMBINED AT | Com31B     | 1395. | 54.00  | 1394. | 1376. | 1245. | 233.98 |  |
| + | ROUTED TO     | Rt32       | 1242. | 75.00  | 1242. | 1231. | 1144. | 233.98 |  |
| + | HYDROGRAPH AT | 1R         | 873.  | 34.00  | 858.  | 710.  | 331.  | 16.89  |  |
| + | 2 COMBINED AT | Com32      | 1714. | 39.00  | 1703. | 1566. | 1367. | 250.87 |  |
| + | HYDROGRAPH AT | DIV3       | 852.  | 53.00  | 850.  | 815.  | 618.  | 0.00   |  |
| + | HYDROGRAPH AT | 17R        | 195.  | 34.00  | 192.  | 158.  | 73.   | 6.47   |  |
| + | 2 COMBINED AT | Com33A     | 923.  | 48.00  | 921.  | 885.  | 670.  | 6.47   |  |
| + | HYDROGRAPH AT | 23R        | 706.  | 84.00  | 705.  | 695.  | 601.  | 94.54  |  |
| + | 2 COMBINED AT | Com33B     | 1390. | 62.00  | 1386. | 1358. | 1202. | 101.01 |  |
| + | ROUTED TO     | LSV        | 567.  | 132.00 | 567.  | 565.  | 552.  | 101.01 |  |
|   |               |            |       |        |       |       |       |        |  |

#### SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAO PLEMENT DT PEAK TIME TO VOLUME DΤ PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) 1R MANE 60.00 12.46 4860.00 0.08 60.00 4860.00 0.08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7543E+02 EXCESS=0.0000E+00 OUTFLOW=0.7512E+02 BASIN STORAGE=0.7456E-02 PERCENT ERROR= 2R MANE 60.00 42.29 2760.00 0.12 60 00 42.29 2760.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1795E+03 EXCESS=0.0000E+00 OUTFLOW=0.1788E+03 BASIN STORAGE=0.2367E-01 PERCENT ERROR= 0.3 3R MANE 60.00 255.31 3300 00 0.28 60 00 255.31 3300 00 0.28 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1385E+04 EXCESS=0.0000E+00 OUTFLOW=0.1385E+04 BASIN STORAGE=0.1986E-01 PERCENT ERROR € 0.0 3R MANE 60.00 38,55 2700.00 60.00 2700.00 38.55 0.36 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1179E+03 EXCESS=0.0000E+00 OUTFLOW=0.1173E+03 BASIN STORAGE=0.5410E-02 PERCENT ERROR= 0.5 SAROUT MANE 39.00 417.48 5148.00 0.78 60.00 417.39 5160.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1606E+04 EXCESS=0.0000E+00 OUTFLOW=0.1606E+04 BASIN STORAGE=0.3599E+00 PERCENT ERROR= 0.0 5A1RT MANE 24.00 338.08 6384 00 0.51 60.00 337.86 6360.00 0.51 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1207E+04 EXCESS=0.0000E+00 OUTFLOW=0.1196E+04 BASIN STORAGE=0.1447E+01 PERCENT ERROR= 0.8 AROUT MANE 60.00 42.18 7560.00 0.12 60.00 42.18 7560.00 0.12 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1900E+03 EXCESS=0.0000E+00 OUTFLOW=0.1897E+03 BASIN STORAGE=0.1295E+00 PERCENT ERROR= 0.1 4A1ROU MANE 202.04 60.00 12.00 2292,00 0.19 201.49 2280.00 0.19CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3809E+03 EXCESS=0.0000E+00 OUTFLOW=0.3792E+03 BASIN STORAGE=0.1776E+00 PERCENT ERROR= 0.4 24.00 2640.00 60.00 0.17 2640.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4037E+03 EXCESS=0.0000E+00 OUTFLOW=0.4036E+03 BASIN STORAGE=0.7820E+00 PERCENT ERROR= 1BR MANE 60.00 409,64 4260.00 2.30 60.00 409.64 4260.00 2.30 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2456E+04 EXCESS=0.0000E+00 OUTFLOW=0.2456E+04 BASIN STORAGE=0.7541E-02 PERCENT ERROR= 0.0 2BR MANE 60.00 798,74 3780.00 1.63 60.00 798.74 3780.00 1.63 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4694E+04 EXCESS=0.0000E+00 OUTFLOW=0.4695E+04 BASIN STORAGE=0.7389E-02 PERCENT ERROR= 0.060.00 49.62 1043.19 3919.96 1.54 1043,17 3960.00 RR MANE 1.54

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6502E+04 EXCESS=0.0000E+00 OUTFLOW=0.6502E+04 BASIN STORAGE=0.1632E+00 PERCENT ERROR=

0.0

|            | 4BR     | MANE    | 58.58       | 1304.45    | 3808.01       | 1.62        | 60.00     | 1304.41     | 3840.00   | 1.62                      |     |
|------------|---------|---------|-------------|------------|---------------|-------------|-----------|-------------|-----------|---------------------------|-----|
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 7831E+04 1 | EXCESS=0.0000 | E+00 OUTFLO | ₩=0.7831  | E+04 BASIN  | STORAGE≖0 | .2376E+00 PERCENT ERROR=  | 0.0 |
|            | 8BR     | MANE    | 60.00       | 1564.32    | 4020.00       | 1.70        | 60.00     | 1564.32     | 4020.00   | 1.70                      |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1013E+05   | EXCESS=0.0000 | E+00 OUTFLO | >w=0.1013 | BE+05 BASIN | STORAGE=0 | 0.7430E+00 PERCENT ERROR= | 0.0 |
|            | 9R      | MANE    | 60.00       | 2413.67    | 4020.00       | 0.75        | 60.00     | 2413.67     | 4020.00   | 0.75                      |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1695E+05   | EXCESS=0.0000 | E+00 OUTFLO | O₩=0.1695 | 5E+05 BASIN | STORAGE=0 | 0.6562E+01 PERCENT ERROR= | 0.0 |
|            | Rt25    | MANE    | 60.00       | 314.22     | 3180.00       | 0.59        | 60.00     | 314.22      | 3180.00   | 0.59                      |     |
| CONTINUITY | SUMMARY | (AC-FT) | - INFLOW=0. | 1199E+04   | excess≈0.0000 | E+00 OUTFL  | O₩=0.119  | 3E+04 BASIN | STORAGE=( | .4836E+00 PERCENT ERROR=  | 0.4 |

|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>135               | VALUE<br>5.00<br>0.<br>0.   | SPILLWAY CRE<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|---|------|--------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|------------------------------------|-----------------------------|
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 418.<br>REACH ANALYSIS<br>STEP USED D |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>CUTFLOW  | INITIAL<br>115               | . VALUE<br>5.00<br>0.       | SPILLWAY CRE<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV |                              | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 340.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               | VALUE<br>0.00<br>0.         | SPILLWAY CRE<br>171.74<br>2155.<br>0. | -                             | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV |                              | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 42.<br>EACH ANALYSIS<br>STEP USED D   |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               | VALUE<br>0.00<br>0.         | SPILLWAY CRE<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1 |      | 1.00               |                                  |                              |                             | 205.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
|   | PLAN | 1                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               | VALUE<br>0.00<br>0.         | SPILLWAY CRE<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|   |      | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|   |      | 1.00               | 113.75                           | 0.10                         | 355.                        | 196.                                  | 10.00                         | 40.00                              | 0.00                        |

**HEC-1 MODEL** 

PROPOSED CONDITIONS 50% DIVERSION

100-YEAR MODEL

<del>~</del>~\*\*\*\*\*\*\*\*\*\*

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| Х   | х    | XXXXXXX | XX | XXX |       | х   |
|-----|------|---------|----|-----|-------|-----|
| х   | Х    | Х       | Х  | Х   |       | XX  |
| х   | Х    | х       | X  |     |       | Х   |
| XXX | XXXX | XXXX    | X  |     | XXXXX | Х   |
| х   | Х    | Х       | х  |     |       | Х   |
| Х   | Х    | X       | х  | Х   |       | X   |
| x   | х    | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
HEC-1 INPUT
LINE
              ID......1.....2......3......4......5.....6......7.....8......9.....10
                *******
                   Hidalgo County Flood Insurance Study
                   Job No. 11-00389-002
                  File Name: Deten100.DAT
                                            Proposed with Detention Conditions
                  100-year Rain-fall
                                            Future Development
              * *******
              * HEC-1 model for the North-West main drain area
                Model sequence is as follows:
              * revised rainfall from USGS report 98-4044
                REVISED CN TYPE I ANTECEDANT
                REVISED LAG BASED ON REVISED CN I
              * IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
              * ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
              * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
              * ROUTED 5&4 BASINS THROUGH STORAGE
              * MODIFIED PULS ROUTING REACHES 5R-9R
              * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
              *DIAGRAM
              ID
                  West Main drain area
                   100-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
              ID
              ΙT
                     60 1JAN01
                                   0
                                         300
              IO
              * *******************
                 Start calculating hydrograph for the sub water sheds
                 that drain to the West Main drain.
              KK
                  SC-7A SUBWATER SHED
              KM
                  Compute hydrograph for sub-water shed SC-7A
              BA
                   18.4
   Я
              PH
                                                  4.68
                                                          5.65
                                                                 6.29
                                                                         7.51
                                                                                        9.19
              LS
                  5.721
                             60
  10
              UD
                   53.5
  11
              KK
                    1R
  12
              KM
                  Route hydrograph from head water to node 1 using Muskingum-Cunge Method
  13
              RD
                                   0.08
                                         19200 0.0002
                                                          217
                   0.08
                           FD.0
  14
              RC
  15
              RX
                   1000
                           2500
                                  2917
                                          2994
                                                 3005
                                                          3061
                                                                 4500
                                                                         5000
                                 204.4 191.53 191.53
  16
              RY
                  203.5
                          202.0
                                                        204.5
                                                                199.9
                                                                        199.0
```

17 KK SC-7B SUBWATER SHED

18 KM Compute hydrograph for sub-water shed SC-7B 19 BA 9.82

20 LS 5.282 60

21 UD 20.1

# RUNOFF SUMMARY FLOW IN CUBIC FEET PER SECOND TIME IN HOURS, AREA IN SQUARE MILES

|                   | OPERATION               | CTATION | PEAK  | TIME OF | AVERAGE FI | LOW FOR MAXIM | NUM PERIOD | BASIN  | MAXIMUM | TIME OF   |
|-------------------|-------------------------|---------|-------|---------|------------|---------------|------------|--------|---------|-----------|
| +                 | or End if Ton           | STATION | FLOW  | PEAK    | 6-HOUR     | 24-HOUR       | 72-HOUR    | AREA   | STAGE   | MAX STAGE |
| +                 | HYDROGRAPH AT           | SC-7A   | 176.  | 69.00   | 176.       | 171.          | 136.       | 18.40  |         |           |
| +                 | ROUTED TO               | 1R      | 176.  | 73.00   | 175.       | 170.          | 135.       | 18.40  |         |           |
| +                 | HYDROGRAPH AT           | SC-7B   | 306.  | 35.00   | 302.       | 252.          | 120.       | 9.82   |         |           |
| +                 | 2 COMBINED AT           | 1C      | 336.  | 37.00   | 333.       | 298.          | 228.       | 28.22  |         |           |
| +                 | ROUTED TO               | 2R      | 328.  | 41.00   | 325.       | 293.          | 226.       | 28.22  |         |           |
| +                 | HYDROGRAPH AT           | SC-7C   | 568.  | 43.00   | 563.       | 508.          | 286.       | 23.00  |         |           |
| +                 | HYDROGRAPH AT           | SC-6A   | 667.  | 66.00   | 666.       | 645.          | 499.       | 41.66  |         |           |
| +                 | 3 COMBINED AT           | 2C      | 1333. | 48.00   | 1328.      | 1269.         | 985.       | 92.88  |         |           |
| +                 | ROUTED TO               | 3R      | 1329. | 52.00   | 1326.      | 1268.         | 984.       | 92.88  |         |           |
| +                 | HYDROGRAPH AT           | SC-6B   | 521.  | 37,00   | 515.       | 444.          | 223.       | 6.58   |         |           |
| +                 | HYDROGRAPH AT           | SC-7D   | 188.  | 41.00   | 186.       | 165.          | 89.        | 6.15   |         |           |
| +                 | ROUTED TO               | 3R      | 183.  | 42.00   | 182.       | 162.          | 89.        | 6.15   |         |           |
| +                 | 3 COMBINED AT           | 3С      | 1858. | 45.00   | 1850.      | 1744.         | 1267.      | 105.61 |         |           |
| +                 | ROUTED TO               | 4R      | 1688. | 54.00   | 1683.      | 1624.         | 1261.      | 105.61 |         |           |
| +                 | HYDROGRAPH AT ROUTED TO | SC5A    | 1085. | 65.00   | 1084.      | 1051.         | 816.       | 38.43  |         |           |
| + +               | 100120 10               | 5ACANA  | 1081. | 68.00   | 1079.      | 1030.         | 715.       | 38.43  | 141.00  | 68.00     |
| +                 | ROUTED TO               | 5AROUT  | 1081. | 71.00   | 1078.      | 1029.         | 713.       | 38.43  |         |           |
| +                 | HYDROGRAPH AT           | SC5A1   | 643.  | 29.00   | 627.       | 464.          | 190.       | 5.64   |         |           |
| +                 | 2 COMBINED AT           | 5AA1    | 1092. | 71.00   | 1089.      | 1039.         | 710.       | 44.07  |         |           |
| <del>†</del><br>† | ROUTED TO               | 5A1CAN  | 1088. | 73.00   | 1085.      | 1031.         | 712.       | 44.07  | 117.15  | 73.00     |
| +                 | ROUTED TO               | 5A1RT   | 1087. | 78.00   | 1084.      | 1031.         | 707.       | 44.07  |         |           |
| +                 | HYDROGRAPH AT           | SC5B    | 995.  | 27.00   | 964.       | 675.          | 264.       | 9.02   |         |           |
| +                 | 2 COMBINED AT           | 4C1     | 1089. | 78.00   | 1086.      | 1034.         | 708.       | 53.09  |         |           |

| +      | HYDROGRAPH AT           | SC-4A  | 1213. | 52.00  | 1209. | 1142. | 762.  | 30.73  |        |       |
|--------|-------------------------|--------|-------|--------|-------|-------|-------|--------|--------|-------|
| +<br>+ | ROUTED TO               | 4ACANA | 1012. | 64.00  | 998.  | 835.  | 454.  | 30.73  | 172.32 | 64.00 |
| +      | ROUTED TO               | 4AROUT | 1011. | 66.00  | 997.  | 832.  | 452.  | 30.73  |        |       |
| +      | HYDROGRAPH AT           | SC-4A1 | 1024. | 25.00  | 986.  | 632.  | 233.  | 7.34   |        |       |
| +      | 2 COMBINED AT           | SC4AA1 | 1024. | 25.00  | 1000. | 833.  | 541.  | 38.07  |        |       |
| +<br>+ | ROUTED TO               | 4A1CAN | 1010. | 67.00  | 996.  | 826.  | 499.  | 38.07  | 141.19 | 67.00 |
| +      | ROUTED TO               | 4A1ROU | 1009. | 69.00  | 994.  | 821.  | 495.  | 38.07  |        |       |
| +      | HYDROGRAPH AT           | SC-4B  | 913.  | 20.00  | 830.  | 414.  | 141.  | 5.44   |        |       |
| +      | 2 COMBINED AT           | SC4AAB | 1193. | 29.00  | 1002. | 821.  | 558.  | 43.51  |        |       |
| +      | ROUTED TO               | 4BCANA | 1180. | 30.00  | 994.  | 818.  | 537.  | 43.51  | 114.19 | 30.00 |
| +      | ROUTED TO               | 4AABRT | 1145. | 32.00  | 991.  | 811.  | 535.  | 43.51  |        |       |
| +      | HYDROGRAPH AT           | SC-4B1 | 725.  | 26.00  | 699.  | 475.  | 181.  | 6.07   |        |       |
| 1      | 2 COMBINED AT           | SC-4   | 1667. | 32.00  | 1428. | 1024. | 672.  | 49.58  |        |       |
| +      | 3 COMBINED AT           | 4C2    | 3435. | 73.00  | 3386. | 2967. | 2510. | 208.28 |        |       |
| +      | ROUTED TO               | 5R     | 2814. | 84.00  | 2808. | 2710. | 2418. | 208.28 |        |       |
| +      | HYDROGRAPH AT           | SC-3   | 1380. | 76.00  | 1379. | 1353. | 1138. | 56.44  |        |       |
| +      | 2 COMBINED AT           | 5C     | 4175. | 82.00  | 4165. | 4026. | 3491. | 264.72 |        |       |
| +      | DIVERSION TO            | DIVL   | 2200. | 82.00  | 2194. | 2116. | 1815. | 264.72 |        |       |
| +      | HYDROGRAPH AT           | DIVI   | 1975. | 82.00  | 1970. | 1910. | 1676. | 264.72 |        |       |
| +      | ROUTED TO               | 6R     | 1840. | 99.00  | 1838. | 1805. | 1633. | 264.72 |        |       |
| +      | HYDROGRAPH AT           | SC-3B  | 264.  | 49.00  | 263.  | 246.  | 157.  | 6.71   |        |       |
| +      | 2 COMBINED AT           | 6C     | 1878. | 98.00  | 1876. | 1846. | 1738. | 271.43 | •      |       |
| +      | ROUTED TO HYDROGRAPH AT | 7R     | 1878. | 99.00  | 1876. | 1846. | 1738. | 271.43 |        |       |
| +      | 2 COMBINED AT           | SC-2   | 139.  | 72.00  | 139.  | 136.  | 110.  | 11.48  |        |       |
| +      | ROUTED TO               | 70     | 1979. | 97.00  | 1977. | 1947. | 1847. | 282.91 |        |       |
|        | POOLED TO               | 8R     | 1964. | 103.00 | 1962. | 1935. | 1840. | 282.91 |        |       |

| + | HYDROGRAPH AT | SC-1  | 360.  | 52.00        | 359.  | 340.  | 231.  | 7.07   |
|---|---------------|-------|-------|--------------|-------|-------|-------|--------|
| + | 2 COMBINED AT | 8C1   | 2106. | 63.00        | 2104. | 2076. | 2013. | 289.98 |
| + | HYDROGRAPH AT | SC-8  | 770.  | 67.00        | 769.  | 748.  | 592.  | 19.99  |
| + | ROUTED TO     | 1BR   | 769.  | 70.00        | 768.  | 747.  | 591.  | 19.99  |
| + | HYDROGRAPH AT | SM-18 | 529.  | 70.00        | 529.  | 515.  | 415.  | 27.11  |
| + | 2 COMBINED AT | 1BC1  | 1298. | 70.00        | 1296. | 1262. | 1007. | 47.10  |
| + | HYDROGRAPH AT | SM-17 | 503.  | 50.00        | 502.  | 472.  | 310.  | 7.03   |
| + | 2 COMBINED AT | 1BC2  | 1675. | <b>33.00</b> | 1670. | 1614. | 1285. | 54.13  |
| + | ROUTED TO     | 2BR   | 1674. | 64.00        | 1669. | 1613. | 1284. | 54.13  |
| + | HYDROGRAPH AT | SM-16 | 589.  | 75.00        | 588.  | 577.  | 482.  | 25.18  |
| + | 2 COMBINED AT | 2BC   | 2228. | 66.00        | 2224. | 2160. | 1755. | 79.31  |
| + | ROUTED TO     | 3BR   | 2228. | 66.00        | 2223. | 2159. | 1755. | 79.31  |
| + | HYDROGRAPH AT | SM-15 | 534.  | 54.00        | 532.  | 507.  | 353.  | 11.10  |
| + | 2 COMBINED AT | 3BC   | 2703. | 64.00        | 2696. | 2610. | 2090. | 90,41  |
| + | ROUTED TO     | 4BR   | 2700. | 65.00        | 2694. | 2608. | 2088. | 90.41  |
| + | HYDROGRAPH AT | SM-14 | 571.  | 82.00        | 570.  | 562.  | 486.  | 21.60  |
| + | 2 COMBINED AT | 4BC   | 3206. | 67.00        | 3199. | 3106. | 2547. | 112.01 |
| + | ROUTED TO     | 8BR   | 3205. | 68.00        | 3198. | 3106. | 2547. | 112.01 |
| + | HYDROGRAPH AT | SM-13 | 282.  | 89.00        | 282.  | 278.  | 246.  | 22.25  |
| + | 2 COMBINED AT | 8C2   | 3444. | 69.00        | 3436. | 3343. | 2773. | 134.26 |
| + | 2 COMBINED AT | 8C3   | 5531. | 68.00        | 5522. | 5401. | 4783. | 424.24 |
| + | ROUTED TO     | 9R    | 5525. | 72.00        | 5516. | 5397. | 4781. | 424.24 |
| + | HYDROGRAPH AT | 295   | 634.  | 41.00        | 628.  | 560.  | 304.  | 12.28  |
| + | 2 COMBINED AT | Com9A | 5665. | 70.00        | 5657. | 5548. | 4945. | 436.52 |
| ÷ | HYDROGRAPH AT | 285   | 916.  | 53.00        | 914.  | 866.  | 588.  | 25.91  |
| + | 2 COMBINED AT | Com9B | 6384. | 66.00        | 6376. | 6253. | 5469. | 462.43 |
| + | ROUTED TO     | Rt10  | 5786. | 81.00        | 5781. | 5710. | 5246. | 462.43 |

| + | DIVERSION TO  | DIV2   | 1653. | 81.00 | 1652. | 1631. | 1499. | 462.43 |   |
|---|---------------|--------|-------|-------|-------|-------|-------|--------|---|
| + | HYDROGRAPH AT | DIV2   | 4133. | 81.00 | 4129. | 4078. | 3747. | 462.43 |   |
| + | HYDROGRAPH AT | 278    | 1110. | 29.00 | 1082. | 803.  | 329.  | 12.15  |   |
| + | 2 COMBINED AT | Com10A | 4140. | 81.00 | 4136. | 4086. | 3770. | 474.58 |   |
| + | HYDROGRAPH AT | 268    | 1048. | 28.00 | 1021. | 732.  | 291.  | 10.55  |   |
| + | HYDROGRAPH AT | 248    | 363.  | 29.00 | 354.  | 262.  | 107.  | 3.83   |   |
| + | 3 COMBINED AT | Com10B | 4145. | 80.00 | 4141. | 4091. | 3800. | 488.96 |   |
| + | ROUTED TO     | Rt11   | 4064. | 89.00 | 4062. | 4035. | 3771. | 488.96 |   |
| + | HYDROGRAPH AT | 228    | 529.  | 35.00 | 520.  | 436.  | 207.  | 7.55   |   |
| + | 2 COMBINED AT | Com11A | 4076. | 89.00 | 4074. | 4048. | 3805. | 496.51 |   |
| + | HYDROGRAPH AT | 205    | 615.  | 39.00 | 609.  | 533.  | 277.  | 10.57  |   |
| + | 2 COMBINED AT | Com11B | 4109. | 87.00 | 4108. | 4084. | 3933. | 507.08 |   |
| + | ROUTED TO     | Rt12   | 4077. | 95.00 | 4076. | 4059. | 3926. | 507.08 |   |
| + | HYDROGRAPH AT | 188    | 388.  | 31.00 | 380.  | 295.  | 127.  | 4.69   | • |
| + | 2 COMBINED AT | Com12  | 4078. | 94.00 | 4077. | 4061. | 3964. | 511.77 |   |
| + | ROUTED TO     | Rt13   | 4074. | 97.00 | 4073. | 4058. | 3961. | 511.77 | • |
| + | HYDROGRAPH AT | 168    | 454.  | 38.00 | 449.  | 391.  | 202.  | 9.60   |   |
| + | 2 COMBINED AT | Com13A | 4409. | 43.00 | 4396. | 4237. | 4092. | 521.37 |   |
| + | HYDROGRAPH AT | 158    | 789.  | 52.00 | 787.  | 740.  | 488.  | 25.08  |   |
| + | 2 COMBINED AT | Com13B | 5142. | 45.00 | 5128. | 4959. | 4559. | 546.45 |   |
| + | ROUTED TO     | Rt14   | 4678. | 60.00 | 4674. | 4626. | 4442. | 546.45 |   |
| + | HYDROGRAPH AT | 138    | 644.  | 48.00 | 641.  | 595.  | 369.  | 19.76  |   |
| + | 2 COMBINED AT | Com14A | 5229. | 56.00 | 5221. | 5115. | 4731. | 566.21 |   |
| + | HYDROGRAPH AT | 148    | 551.  | 37.00 | 545.  | 471.  | 239.  | 9.53   |   |
| + | 2 COMBINED AT | Com14B | 5486. | 52.00 | 5479. | 5362. | 4875. | 575.74 |   |
| + | ROUTED TO     | Rt15   | 5268. | 63.00 | 5261. | 5171. | 4793. | 575.74 |   |
| 3 | HYDROGRAPH AT | 11S -  | 887.  | 26.00 | 855.  | 584.  | 223.  | 8.20   |   |

| + | 2 COMBINED AT                | Com15  | 5283. | 62.00 | 5276. | 5186. | 4807. | 583.94 |  |
|---|------------------------------|--------|-------|-------|-------|-------|-------|--------|--|
| + | ROUTED TO                    | Rt16   | 5049. | 75.00 | 5045. | 4996. | 4734. | 583.94 |  |
| + | HYDROGRAPH AT                | 78     | 968.  | 53.00 | 965.  | 914.  | 619.  | 29.41  |  |
| + | 2 COMBINED AT                | Com16  | 5739. | 67.00 | 5732. | 5635. | 5192. | 613.35 |  |
| + | ROUTED TO                    | Rt17   | 5719. | 71.00 | 5711. | 5619. | 5185. | 613.35 |  |
| + | HYDROGRAPH AT                | 6S     | 1101. | 27.00 | 1068. | 744.  | 290.  | 9.21   |  |
| + | 2 COMBINED AT                | Com17  | 5728. | 70.00 | 5721. | 5629. | 5200. | 622.56 |  |
| + | ROUTED TO                    | Rt18   | 5675. | 75.00 | 5668. | 5587. | 5185. | 622.56 |  |
| + | HYDROGRAPH AT                | 48     | 1698. | 34.00 | 1669. | 1379. | 644.  | 22.35  |  |
| + | 2 COMBINED AT                | Com18A | 5770. | 73.00 | 5764. | 5690. | 5399. | 644.91 |  |
| + | HYDROGRAPH AT                | 3\$    | 553.  | 30.00 | 540.  | 413.  | 175.  | 4.49   |  |
| + | 2 COMBINED AT                | Com18B | 5782. | 73.00 | 5776. | 5704. | 5493. | 649.40 |  |
| + | ROUTED TO                    | Rt19   | 5778. | 74.00 | 5772. | 5701. | 5488. | 649.40 |  |
| + | HYDROGRAPH AT                | 28     | 1018. | 23.00 | 971.  | 594.  | 214.  | 5.35   |  |
| + | 2 COMBINED AT                | Com19A | 5868. | 36.00 | 5831. | 5701. | 5533. | 654.75 |  |
| + | HYDROGRAPH AT                | 18     | 664.  | 35.00 | 654.  | 547.  | 260.  | 7.47   |  |
| + | 2 COMBINED AT                | Com19B | 6522. | 36.00 | 6466. | 6019. | 5738. | 662.22 |  |
| + | HYDROGRAPH AT                | DIV1   | 2200. | 82.00 | 2194. | 2116. | 1815. | 0.00   |  |
| + | HYDROGRAPH AT                | SC-3A  | 178.  | 72.00 | 177.  | 174.  | 143.  | 5.87   |  |
| + | 2 COMBINED AT                | 20C    | 2370. | 82.00 | 2364. | 2280. | 1956. | 5.87   |  |
| + | ROUTED TO                    | 21R    | 2308. | 88.00 | 2303. | 2235. | 1935. | 5.87   |  |
| + | HYDROGRAPH AT  2 COMBINED AT | 29aR   | 227.  | 37.00 | 224.  | 192.  | 95.   | 4.84   |  |
| + |                              | Com21A | 2315. | 88.00 | 2311. | 2244. | 1978. | 10.71  |  |
| + | HYDROGRAPH AT  2 COMBINED AT | 29R    | 488.  | 47.00 | 485.  | 447.  | 271.  | 18.03  |  |
| + | ROUTED TO                    | Com21B | 2401. | 87.00 | 2397. | 2331. | 2204. | 28.74  |  |
| + | HYDROGRAPH AT                | 22R    | 2395. | 89.00 | 2390. | 2327. | 2200. | 28.74  |  |
| + | AIDROGRAFH AI                | 28aR   | 106.  | 27.00 | 102.  | 70.   | 27.   | 2.35   |  |

|   | 2 COMBINED AT |        |       |        |       |       |       |        |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|
| + | ROUTED TO     | Com22  | 2395. | 89.00  | 2390. | 2327. | 2205. | 31.09  |
| + | KOOLED 10     | Rt23   | 2187. | 102.00 | 2185. | 2159. | 2001. | 31.09  |
| + | HYDROGRAPH AT | 24R    | 625.  | 50.00  | 623.  | 582.  | 372.  | 22.22  |
| + | 2 COMBINED AT | Com23A | 2298. | 63.00  | 2295. | 2255. | 2218. | 53.31  |
| + | HYDROGRAPH AT | 28R    | 51.   | 33.00  | 50.   | 38.   | 16.   | 4.68   |
| + | ROUTED TO     | Rt24   | 47.   | 44.00  | 46.   | 35.   | 16.   | 4.68   |
| + | HYDROGRAPH AT | 25R    | 366.  | 37.00  | 362.  | 311.  | 156.  | 8.99   |
| + | HYDROGRAPH AT | 27R    | 733.  | 50.00  | 730.  | 682.  | 434.  | 23.93  |
| + | 3 COMBINED AT | Com24  | 1071. | 44.00  | 1063. | 970.  | 602.  | 37.60  |
| + | ROUTED TO     | Rt25   | 1050. | 49.00  | 1043. | 956.  | 596.  | 37.60  |
| + | HYDROGRAPH AT | 22R    | 882.  | 46.00  | 878.  | 809.  | 488.  | 18.04  |
| + | 2 COMBINED AT | Com25  | 1924. | 47.00  | 1908. | 1748. | 1073. | 55.64  |
| + | HYDROGRAPH AT | 19R    | 359.  | 40.00  | 355.  | 314.  | 167.  | 11.18  |
| + | 3 COMBINED AT | Com23B | 4255. | 50.00  | 4238. | 4042. | 3268. | 120.13 |
| + | ROUTED TO     | Rt26A  | 4167. | 55.00  | 4153. | 3975. | 3268. | 120.13 |
| + | DIVERSION TO  | DIV3   | 1990. | 55.00  | 1984. | 1910. | 1611. | 120.13 |
| + | HYDROGRAPH AT | DIV3   | 2177. | 55.00  | 2169. | 2066. | 1657. | 120.13 |
| + | ROUTED TO     | Rt26B  | 2155. | 58.00  | 2148. | 2063. | 1654. | 120.13 |
| + | HYDROGRAPH AT | 20R    | 1248. | 35.00  | 1229. | 1032. | 494.  | 18.78  |
| + | 2 COMBINED AT | Com26  | 2704. | 43.00  | 2696. | 2605. | 2015. | 138,91 |
| + | ROUTED TO     | Rt27A  | 1789. | 75.00  | 1788. | 1768. | 1646. | 138.91 |
| + | HYDROGRAPH AT | 13R    | 907.  | 30.00  | 888.  | 688.  | 294.  | 11.50  |
| + | 2 COMBINED AT | Com27A | 1910. | 73.00  | 1809. | 1791. | 1714. | 150.41 |
| + | HYDROGRAPH AT | 14R    | 528.  | 37.00  | 521.  | 449.  | 226.  | 9.24   |
| + | ROUTED TO     | Rt27B  | 638.  | 42.00  | 450.  | 308.  | 203.  | 9.24   |
| + | 2 COMBINED AT | Com27B | 2291. | 42.00  | 2094. | 1997. | 1913. | 159.65 |
|   | ROUTED TO     | Rt28   | 1991. | 76.00  | 1990. | 1975. | 1879. | 159.65 |

| + | HYDROGRAPH AT | 11R    | 934.  | 25.00  | 898.  | 587.  | 218.  | 10.09  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|
| + | 2 COMBINED AT | Com28A | 1991. | 76.00  | 1990. | 1976. | 1908. | 169.74 |
| + | HYDROGRAPH AT | 8R     | 490.  | 27.00  | 474.  | 325.  | 124.  | 11.62  |
| + | 2 COMBINED AT | Com28B | 2281. | 29.00  | 2209. | 2062. | 1993. | 181.36 |
| + | ROUTED TO     | Rt29   | 1974. | 83.00  | 1973. | 1965. | 1911. | 181.36 |
| + | HYDROGRAPH AT | 10R    | 1540. | 34.00  | 1516. | 1246. | 575.  | 21.47  |
| + | 2 COMBINED AT | Com29  | 3163. | 35.00  | 3141. | 2867. | 2352. | 202.83 |
| + | OT DETUCA     | Rt30   | 2674. | 46.00  | 2665. | 2561. | 2263. | 202.83 |
| + | HYDROGRAPH AT | 6R     | 746.  | 43.00  | 740.  | 670.  | 381.  | 16.37  |
| + | 2 COMBINED AT | Com30A | 3404. | 45.00  | 3388. | 3200. | 2606. | 219.20 |
| + | HYDROGRAPH AT | 4R     | 395.  | 30.00  | 385.  | 295.  | 125.  | 4.73   |
| + | 2 COMBINED AT | Com30B | 3556. | 43.00  | 3538. | 3345. | 2693. | 223.93 |
| + | ROUTED TO     | Rt31   | 3064. | 56.00  | 3052. | 2942. | 2532. | 223.93 |
| + | HYDROGRAPH AT | 2R     | 815.  | 25.00  | 782.  | 512.  | 192.  | 5,58   |
| + | 2 COMBINED AT | Com31A | 3083. | 56.00  | 3073. | 2964. | 2553. | 229.51 |
| + | HYDROGRAPH AT | 3R     | 478.  | 28.00  | 465.  | 335.  | 133.  | 4.47   |
| + | 2 COMBINED AT | Com31B | 3115. | 55.00  | 3104. | 2998. | 2610. | 233.98 |
| + | ROUTED TO     | Rt32   | 2593. | 76.00  | 2590. | 2560. | 2381. | 233.98 |
| + | HYDROGRAPH AT | 1R     | 1608. | 34.00  | 1582. | 1307. | 608.  | 16,89  |
| + | 2 COMBINED AT | Com32  | 2856. | 36.00  | 2840. | 2666. | 2608. | 250.87 |
| + | HYDROGRAPH AT | DIV3   | 1990. | 55.00  | 1984. | 1910. | 1611. | 0.00   |
| + | HYDROGRAPH AT | 17R    | 458.  | 33.00  | 451.  | 369.  | 170.  | 6.47   |
| + | 2 COMBINED AT | Com33A | 2121. | 52.00  | 2114. | 2052. | 1725. | 6.47   |
| + | HYDROGRAPH AT | 23R    | 1709. | 83.00  | 1707. | 1681. | 1454. | 94.54  |
| + | 2 COMBINED AT | Com33B | 3380. | 67.00  | 3376. | 3328. | 3038. | 101.01 |
| + | ROUTED TO     | LSV    | 1302. | 144.00 | 1301. | 1291. | 1238. | 101.01 |

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#### SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAO ELEMENT DТ PEAK TIME TO VOLUME DΨ PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MIN) (IN) (MIN) (CFS) (MIN) (IN) 1 R MANE 60.00 175.66 4380.00 1.08 60.00 175.66 4380.00 1 08 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1056E+04 EXCESS=0.0000E+00 OUTFLOW=0.1056E+04 BASIN STORAGE=0.1018E-01 PERCENT ERROR= 0.0 2R MANE 60.00 327.51 2460.00 1.18 60.00 1.18 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1777E+04 EXCESS=0.0000E+00 OUTFLOW=0.1776E+04 BASIN STORAGE=0.3912E-01 PERCENT ERROR= 0.01329.41 3R MANE 60.00 3120.00 1.48 60.00 1329.41 3120.00 1.48 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7334E+04 EXCESS=0.0000E+00 OUTFLOW=0.7333E+04 BASIN STORAGE=0.3812E-01 PERCENT ERROR= 0.0 3R MANE 60.00 183.40 2520.00 1.68 60.00 183.40 2520.00 1.68 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5506E+03 EXCESS=0.0000E+00 OUTFLOW=0.5498E+03 BASIN STORAGE=0.5648E-02 PERCENT ERROR= 0.1 **SAROUT** 48.00 1081.04 4272.00 60.00 1080.84 4260.00 2.44 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5000E+04 EXCESS=0.0000E+00 OUTFLOW=0.5004E+04 BASIN STORAGE=0.4968E+00 PERCENT ERROR= -0.15A1RT MANE 60.00 1087.03 4680.00 2.20 60.00 1087.03 4680.00 2.20 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5164E+04 EXCESS=0.0000E+00 OUTFLOW=0.5163E+04 BASIN STORAGE=0.2022E+01 PERCENT ERROR= 0.0 4AROUT MANE 33 00 1011.01 3960.00 1.80 60.00 1011.01 3960.00 1.80 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2946E+04 EXCESS=0.0000E+00 OUTFLOW=0.2946E+04 BASIN STORAGE=0.1572E+00 PERCENT ERROR= 0.0 4A1ROU MANE 18.00 1009,21 4140.00 1.89 60.00 1009.21 4140.00 1.89 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3835E+04 EXCESS=0.0000E+00 OUTFLOW=0.3834E+04 BASIN STORAGE=0.2044E+00 PERCENT ERROR= 0.0 4AABRT MANE 12,00 1147.06 1932.00 60.00 1.88 1144.65 1920.00 1.88 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4351E+04 EXCESS=0.0000E+00 OUTFLOW=0.4354E+04 BASIN STORAGE=0.8935E+00 PERCENT ERROR= -0.11BR MANE 60.00 768.80 4200.00 4.32 60.00 768.80 4.32 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4607E+04 EXCESS=0.0000E+00 OUTFLOW=0.4607E+04 BASIN STORAGE=0.7847E-02 PERCENT ERROR= 0.0 2BR MANE 53.32 1674.43 3838.77 3.45 60.00 1674.37 3840.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.9971E+04 EXCESS=0.0000E+00 OUTFLOW=0.9972E+04 BASIN STORAGE=0.1659E-01 PERCENT ERROR= 3BR MANE 38.36 2228.20 3989.46 3.31 60.00 2228.00 3960.00 3.31 INUITY SUMMARY (AC-FT) - INFLOW=0.1402E+05 EXCESS=0.0000E+00 OUTFLOW=0.1402E+05 BASIN STORAGE=0.3455E+00 PERCENT ERROR= 0.0

| 4BR                | MANE    | 46.65       | 2700.01    | 3872.27       | 3.41         | 60.00              | 2699.99    | 3900.00     | 3.41                   |     |
|--------------------|---------|-------------|------------|---------------|--------------|--------------------|------------|-------------|------------------------|-----|
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0. | 1646E+05 I | EXCESS=0.000  | E+00 OUTFLA  | O₩=0.1646          | e+05 basin | STORAGE=0.4 | 912E+00 PERCENT ERROR= | 0.0 |
| 8BR                | MANE    | 60.00       | 3204.94    | 4080.00       | 3.49         | 60.00              | 3204.94    | 4080.00     | 3.49                   |     |
| CONTINUITY SUMMARY | (AC~FT) | - INFLOW=0. | 2084E+05 I | EXCESS=0.0000 | E+00 OUTFL   | OW≃0.2084          | E+05 BASIN | STORAGE=0.1 | 453E+01 PERCENT ERROR= | 0.0 |
| 9R                 | MANE    | 60.00       | 5525.39    | 4320.00       | 1.84         | 60.00              | 5525.39    | 4320.00     | 1.84                   |     |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0. | 4170E+05 I | EXCESS=0.0000 | DE+00 OUTFLO | O₩=0.4170          | E+05 BASIN | STORAGE=0.1 | 368E+02 PERCENT ERROR= | 0.0 |
| Rt24               | MANE    | 60.00       | 46.61      | 2640.00       | 0.38         | 60.00              | 46.61      | 2640.00     | 0.38                   |     |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0. | 9694E+02 I | EXCESS=0.0000 | E+00 OUTFL   | OW≔0.9480          | E+02 BASIN | STORAGE=0.3 | 377E+00 PERCENT ERROR= | 1.9 |
| Rt25               | MANE    | 60.00       | 1050.06    | 2940.00       | 1.93         | 60.00              | 1050.06    | 2940.00     | 1.93                   |     |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0. | 3869E+04 I | EXCESS=0.000  | E+00 OUTFL   | O <b>w</b> =0.3861 | E+04 BASIN | STORAGE=0.5 | 026E+00 PERCENT ERROR= | 0.2 |

| PLAN | 1 | • | ELEVATION<br>STORAGE<br>OUTFLOW  | 135                          | VALUE<br>.000<br>0.         | SPILLWAY CRI<br>140.67<br>1200.<br>0. |                               | OF DAM<br>140.82<br>1348.<br>325.   |                             |
|------|---|---|----------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------------------|-------------------------------------|-----------------------------|
|      |   | RATIO<br>OF<br>PMF                      | RESERVOIR                        | DEPTH                        | STORAGE                     | MAXIMUM<br>CUTFLOW<br>CFS             | OVER TOP                      | TIME OF<br>MAX OUTFLOW<br>HOURS     | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                    |                                  | OF DAM OVER                  | TOPPING/BR                  | 1081.<br>EACH ANALYSIS<br>STEP USED   | S FOR STATI                   |                                     | 0.00                        |
| PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | 115                          | VALUE<br>.00<br>0.          | SPILLWAY CRI<br>116.80<br>974.<br>0.  |                               | OF DAM<br>117.20<br>1190.<br>1346.  |                             |
|      |   | ratio<br>Of<br>PMF                      | RESERVOIR                        | DEPTH                        | STORAGE                     | OUTFLOW                               | OVER TOP                      | TIME OF<br>MAX OUTFLOW<br>HOURS     | FATLURE                     |
|      |   | 1.00                                    | SUMMARY                          | OF DAM OVER                  | TOPPING/BR                  | EACH ANALYSIS                         | S FOR STATI                   | 73.00<br>ON 4ACANA<br>CH FORMATION) | 0.00                        |
| PLAN | 1 | • | ELEVATION<br>STORAGE<br>OUTFLOW  | 160                          | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRI<br>171.74<br>2155.<br>0. |                               | OF DAM<br>171.83<br>2217.<br>38.    |                             |
|      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | DEPTH                        | STORAGE                     | OUTFLOW                               | OVER TOP                      | TIME OF<br>MAX OUTFLOW<br>HOURS     | FAILURE                     |
|      |   | 1.00                                    | SUMMARY                          | OF DAM OVER                  | TOPPING/BR                  | EACH ANALYSI:                         | S FOR STATI                   | 64.00<br>ON 4AlCAN<br>CH FORMATION) | 0.00                        |
| PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | 140                          | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRI<br>141.00<br>495.<br>0.  |                               | OF DAM<br>141.11<br>549.<br>439.    |                             |
|      |   | RATIO<br>OF<br>PMF                      |                                  | DEPTH                        |                             | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS     | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                    |                                  | OF DAM OVER                  |                             | EACH ANALYSIS                         |                               | 67.00<br>ON 4BCANA<br>CH FORMATION) | 0.00                        |
| PLAN | 1 |   | ELEVATION<br>STORAGE<br>OUTFLOW  | INIT <b>IA</b> L<br>110      | VALUE<br>.00<br>0.<br>0.    | SPILLWAY CRI<br>113.48<br>330.<br>0.  |                               | OF DAM<br>113.65<br>346.<br>98.     |                             |
|      |   | RATIO<br>OF<br>PMF                      | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS             | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS     | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                    | 114.19                           | 0.54                         | 397.                        | 1180.                                 | 106.00                        | 30.00                               | 0.00                        |

### SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

|           | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>135               | . VALUE<br>5.00<br>0.       | SPILLWAY CRE<br>140.67<br>1200.<br>0.  |                               | OF DAM<br>140.82<br>1348.<br>325.  |                             |
|-----------|------|---|--------------------|----------------------------------|------------------------------|-----------------------------|--|-------------------------------|------------------------------------|-----------------------------|
|           |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| 1         |      |   | 1.00               |                                  |                              |                             | 1081.<br>REACH ANALYSIS<br>STEP USED I |                               |                                    | 0.00                        |
|           | PLAN | 1 | •••••              | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAI<br>115               | VALUE<br>.00<br>0.          | SPILLWAY CRE<br>116.80<br>974.<br>0.   |                               | OF DAM<br>117.20<br>1190.<br>1346. |                             |
|           |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
| L         |      |   | 1.00               |                                  |                              |                             | 1088.<br>EACH ANALYSIS<br>STEP USED I  |                               |                                    | 0.00                        |
| , m2#444. | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>160               | .00<br>0.<br>0.             | SPILLWAY CRE<br>171.74<br>2155.<br>0.  |                               | OF DAM<br>171.83<br>2217.<br>38.   |                             |
|           |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|           |      |   | 1.00               |                                  |                              |                             | 1012.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
|           | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               |                             | SPILLWAY CRE<br>141.00<br>495.<br>0.   |                               | OF DAM<br>141.11<br>549.<br>439.   |                             |
|           |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|           |      |   | 1.00               |                                  |                              |                             | 1010.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                    | 0.00                        |
|           | PLAN | 1 |                    | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               |                             | SPILLWAY CRE<br>113.48<br>330.<br>0.   |                               | OF DAM<br>113.65<br>346.<br>98.    |                             |
|           |      |   | RATIO<br>OF<br>PMF | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS    | TIME OF<br>FAILURE<br>HOURS |
|           |      |   | 1.00               | 114.19                           | 0.54                         | 397.                        | 1180.                                  | 106.00                        | 30.00                              | 0.00                        |

#### **HEC-1 MODEL**

## PROPOSED CONDITIONS 50% DIVERSION

**500-YEAR MODEL** 

MAY 1991
VERSION 4.0.1E
Lahey F77L-EM/32 version 5.01
Dodson & Associates, Inc.
RUN DATE 05/24/01 TIME 08:54:46

U.S. ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER 609 SECOND STREET DAVIS, CALIFORNIA 95616 (916) 551-1748

| х       | х | XXXXXXX | XX | XXX |       | х   |
|---------|---|---------|----|-----|-------|-----|
| х       | х | х       | X  | Х   |       | XX  |
| Х       | X | X       | X  |     |       | Х   |
| XXXXXXX |   | ::xxx   | х  |     | XXXXX | X   |
| X       | Х | X       | Х  |     |       | X   |
| Х       | х | X       | x  | Х   |       | x   |
| Х       | Х | XXXXXXX | XX | XXX |       | XXX |

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRANT7 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

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LINE
              ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                  Hidalgo County Flood Insurance Study
                   Job No. 11-00389-002
                   File Name: Deten500.DAT
                                            Proposed with Detention Conditions
              * 500-year Rain-fall Future Development
                HEC-1 model for the North-West main drain area
                Model sequence is as follows:
                revised rainfall from USGS report 98-4044
                REVISED ON TYPE I ANTECEDANT
                REVISED LAG BASED ON REVISED CN I
                IA LOSSES CALCULATED BASED ON 3" HEAVY CROP, 1" RURAL, 0" URBAN
                ADDITION MAJOR DEPRESSION STORAGE ADDED WHERE APPLICABLE
              * SEE SPREADSHEET LANDUSE-SOIL-CN-IA.XLS FOR IA CALCS.
              * ROUTED 544 BASINS THROUGH STORAGE
              * MODIFIED PULS ROUTING REACHES 5R-9R
              * CORRECTED DA FOR SM-18 FROM 37.73 TO 27.11
              *DIAGRAM
                  West Main drain area
500-year Rain-fall adjusted for area; Lag Time calculated using SCS Method
  1
2
3
              ID
              τn
                     60 1JAN01
                                           300
                                    0
              ፒሚ
              10
              Start calculating hydrograph for the sub water sheds
                 that drain to the West Main drain.
  5
                   SC-7A SUBWATER SHED
  6
              KM
                   Compute hydrograph for sub-water shed SC-7A
  7
              BΑ
                   18.4
  8
              РН
                    0.2
                                                  6.21
                                                         7.66
                                                                 8.83 10.75 12.35 13.23
              LS
                   5.721
                             60
 10
              UD
                   53.5
 11
              KK
                    1R
 12
13
                  Route hydrograph from head water to node 1 using Muskingum-Cunge Method
              KМ
              RD
                                         19200 0.0002
  14
              RC
                   0.08
                           0.03
                                   0.08
                                                          217
                                   2917
  15
              RX
                   1000
                           2500
                                          2994
                                                  3005
                                                          3061
                                                                 4500
                                                                         5000
                          202.0
                                  204.4 191.53 191.53
                                                        204.5
 16
              RY
                   203.5
                                                                199.9
                                                                        199.0
 17
                   SC-7B SUBWATER SHED
 18
                   Compute hydrograph for sub-water shed SC-7B
  19
              ΒA
                   9.82
 20
              LS
                   5.282
                             60
 21
              UD
                   20.1
```

|    |               |          | PEAK           | TIME OF |                | AVERAGE FLOW FOR MAXIMUM PERIOD |                |               | MAXIMUM | TIME OF   |
|----|---------------|----------|----------------|---------|----------------|---------------------------------|----------------|---------------|---------|-----------|
| +  | OPERATION     | STATION  | FLOW           | PEAK    | 6-HOUR         | 24-HOUR                         | 72-HOUR        | BASIN<br>AREA | STAGE   | MAX STAGE |
| +  | HYDROGRAPH AT | SC-7A    | 615.           | 68.00   | 614.           | 598.                            | 473.           | 18.40         |         |           |
| +  | ROUTED TO     | 1R       | 614.           | 71.00   | 613.           | 596.                            | 473.           | 18.40         |         |           |
| +  | HYDROGRAPH AT | SC-7B    | 939.           | 35.00   | 925.           | 771.                            | 365.           | 9.82          |         |           |
| +  | 2 COMBINED AT | 10       | 1080.          | 36.00   | 1072.          | 970.                            | 760.           | 28.22         |         |           |
| +  | ROUTED TO     | 2R       | 1059.          | 43.00   | 1053.          | 963.                            | 756.           | 28.22         |         |           |
| +  | HYDROGRAPH AT | SC-7C    | 1667.          | 42.00   | 1654.          | 1492.                           | 838.           | 23.00         |         |           |
| +  | 3 COMBINED AT | SC-6A    | 1773.          | 65.00   | 1771.          | 1717.                           | 1327.          | 41.66         |         |           |
| +  | ROUTED TO     | 2C       | 3910.          | 47.00   | 3889.          | 3680.                           | 2849.          | 92.88         |         |           |
| +  | HYDROGRAPH AT | 3R       | 3859.          | 53.00   | 3843.          | 3654.                           | 2841.          | 92.88         |         |           |
| +  | HYDROGRAPH AT | SC-6B    | 967.           | 37.00   | 956.           | 824.                            | 414.           | 6.59          |         |           |
| +  | ROUTED TO     | SC-7D    | 515.           | 40.00   | 511.           | 454.                            | 245.           | 6.15          |         |           |
| +  | 3 COMBINED AT | 3R<br>3C | 507.           | 41.00   | 502.           | 447.                            | 244.           | 6.15          |         |           |
| +  | ROUTED TO     | 4R       | 4804.<br>4288. | 59.00   | 4783.<br>4276. | 4517.<br>4123.                  | 3425.<br>3315. | 105.61        |         |           |
| +  | HYDROGRAPH AT | SC5A     | 2193.          | 65.00   | 2190.          | 2125.                           | 1649.          | 30.43         |         |           |
| +  | ROUTED TO     | 5ACANA   | 2190.          | 67.00   | 2187.          | 2121.                           | 1587.          | 38.43         | 141.13  | 67.00     |
| +  | ROUTED TO     | 5AROUT   | 2191.          | 69.00   | 2187.          | 2121.                           | 1585.          | 38.43         |         |           |
| +  | HYDROGRAPH AT | SC5A1    | 1206.          | 29.00   | 1176.          | 871.                            | 357.           | 5.64          |         |           |
| +  | 2 COMBINED AT | 5AA1     | 2218.          | 67.00   | 2215.          | 2155.                           | 1612.          | 44.07         |         |           |
| ++ | ROUTED TO     | 5A1CAN   | 2217.          | 68.00   | 2214.          | 2154.                           | 1606.          | 44.07         | 117.30  | 68.00     |
| +  | ROUTED TO     | 5A1RT    | 2217.          | 72.00   | 2213.          | 2153.                           | 1602.          | 44.07         |         |           |
| +  | HYDROGRAPH AT | SC5B     | 1984.          | 27.00   | 1923.          | 1342.                           | 524.           | 9.02          |         |           |
| +  | 2 COMBINED AT | 4C1      | 2231.          | 71.00   | 2228.          | 2169.                           | 1655.          | 53.09         |         |           |

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| +             | HYDROGRAPH AT               | SC-4A      | 2429.           | 51.00          | 2422.           | 2287.           | 1525.          | 30.73           |        |       |
|---------------|-----------------------------|------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------|-------|
| +             | ROUTED TO                   | 4ACANA     | 2399.           | 55.00          | 2382.           | 2168.           | 1250.          | 30.73           | 172 70 | 55.00 |
| +             | ROUTED TO                   | 4AROUT     | 2399.           | 56.00          | 2381.           | 2164.           | 1248.          | 30.73           | 172.70 | 55.00 |
| +             | HYDROGRAPH AT               | SC-4Al     | 1978.           | 24.00          | 1899.           | 1215.           | 448.           | 7.34            |        |       |
| +             | 2 COMBINED AT               | SC4AA1     | 2435.           | 56.00          | 2418.           | 2194.           | 1470.          | 38.07           |        |       |
| <b>+</b><br>+ | ROUTED TO                   | 4A1CAN     | 2431.           | 56.00          | 2414.           | 2190.           | 1437.          | 38.07           | 141.34 | 56.00 |
| +             | ROUTED TO                   | 4AlROU     | 2429.           | 58.00          | 2413.           | 2187.           | 1432.          | 38.07           |        | •     |
| +             | HYDROGRAPH AT               | SC-4B      | 1961.           | 20.00          | 1782.           | 870.            | 296.           | 5.44            |        |       |
| +             | 2 COMBINED AT               | SC4AAB     | 3037.           | 25.00          | 2585.           | 2187.           | 1617.          | 43.51           |        |       |
| ++            | ROUTED TO                   | 4BCANA     | 3043.           | 26.00          | 2558.           | 2185.           | 1599.          | 43.51           | 114.67 | 26.00 |
| +             | ROUTED TO                   | 4AABRT     | 2873.           | 28.00          | 2545.           | 2177.           | 1594.          | 43.51           |        |       |
| +             | HYDROGRAPH AT               | SC-4B1     | 1436.           | 26.00          | 1385.           | 937.            | 358.           | 6.07            |        |       |
| +             | 2 COMBINED AT 3 COMBINED AT | SC-4       | 4249.           | 27.00          | 3822.           | 2510.           | 1911.          | 49.58           |        |       |
| +             | ROUTED TO                   | 4C2        | 8788.           | 61.00          | 8750.           | 8195.           | 6657.          | 208.28          |        |       |
| +             | HYDROGRAPH AT               | 5R         | 7553.           | 77.00          | 7541.           | 7374.           | 6208.          | 208.28          |        |       |
| +             | 2 COMBINED AT               | SC-3<br>5C | 2698.<br>10250. | 76.00<br>76.00 | 2695.<br>10236. | 2645.<br>10019. | 2224.<br>8414. | 56.44<br>264.72 |        |       |
| +             | DIVERSION TO                | DIV1       | 6250.           | 76.00          | 6239.           | 6079.           | 4927.          | 264.72          |        |       |
| +             | HYDROGRAPH AT               | DIV1       | 4000.           | 76.00          | 3996.           | 3939.           | 3487.          | 264.72          |        |       |
| +             | ROUTED TO                   | 6R         | 3637.           | 104.00         | 3635.           | 3604.           | 3334.          | 264.72          |        |       |
| +             | HYDROGRAPH AT               | SC-3B      | 556.            | 49.00          | 554.            | 518.            | 330.           | 6.71            |        |       |
| +             | 2 COMBINED AT               | 6C         | 3703.           | 101.00         | 3701.           | 3675.           | 3462.          | 271.43          |        |       |
| +             | ROUTED TO HYDROGRAPH AT     | 7R         | 3665.           | 109.00         | 3663.           | 3639.           | 3451.          | 271.43          |        |       |
| +             | 2 COMBINED AT               | SC-2       | 412.            | 71.00          | 412.            | 402.            | 326.           | 11.48           |        |       |
| +             | ROUTED TO                   | 7C<br>8R   |                 | 100.00         | 3901.<br>3855.  | 3882.<br>3839.  | 3729.<br>3684. | 282.91          |        |       |
|               |                             |            |                 |                |                 |                 |                |                 |        |       |

| + | HYDROGRAPH AT | SC-1  | 648.   | 52.00  | 647.   | 613.   | 417.   | 7.07   |
|---|---------------|-------|--------|--------|--------|--------|--------|--------|
| + | 2 COMBINED AT | 8C1   | 3932.  | 111.00 | 3931.  | 3920.  | 3835.  | 289.98 |
| + | HYDROGRAPH AT | SC-8  | 1392.  | 67.00  | 1390.  | 1352.  | 1071.  | 19.99  |
| + | ROUTED TO     | 1BR   | 1390.  | 70.00  | 1388.  | 1350.  | 1070.  | 19.99  |
| + | HYDROGRAPH AT | SM-18 | 1262.  | 70.00  | 1261.  | 1230.  | 990.   | 27.11  |
| + | 2 COMBINED AT | 1801  | 2652.  | 70.00  | 2649.  | 2580.  | 2060.  | 47.10  |
| + | HYDROGRAPH AT | SM-17 | 839.   | 50.00  | 836.   | 787.   | 517.   | 7.03   |
| + | 2 COMBINED AT | 1BC2  | 3271.  | 63.00  | 3260.  | 3158.  | 2523.  | 54.13  |
| + | ROUTED TO     | 2BR   | 3269.  | 64.00  | 3259.  | 3158.  | 2522.  | 54.13  |
| + | HYDROGRAPH AT | SM-16 | 1199.  | 75.00  | 1198.  | 1174.  | . 980. | 25.18  |
| + | 2 COMBINED AT | 2BC   | 4412.  | 67.00  | 4403.  | 4281.  | 3483.  | 79.31  |
| + | ROUTED TO     | 3BR   | 4410.  | 68.00  | 4401.  | 4278.  | 3482.  | 79.31  |
| + | HYDROGRAPH AT | SM-15 | 963.   | 54.00  | 961.   | 915.   | 638.   | 11.10  |
| + | 2 COMBINED AT | 3BC   | 5237.  | 65.00  | 5224.  | 5068.  | 4084.  | 90.41  |
| + | ROUTED TO     | 4BR   | 5173.  | 69.00  | 5162.  | 5016.  | 4069.  | 90.41  |
| + | HYDROGRAPH AT | SM-14 | 1056.  | 82.00  | 1055.  | 1039.  | 900.   | 21.60  |
| + | 2 COMBINED AT | 4BC   | 6165.  | 71.00  | 6154.  | 5991.  | 4919.  | 112.01 |
| + | ROUTED TO     | 9BR   | 6163.  | 71.00  | 6151.  | 5989.  | 4917.  | 112.01 |
| + | HYDROGRAPH AT | SM-13 | 704.   | 88.00  | 703.   | 694.   | 613.   | 22.25  |
| + | 2 COMBINED AT | 8C2   | 6802.  | 73.00  | 6790.  | 6619.  | 5484.  | 134.26 |
| + | 2 COMBINED AT | 8C3   | 10544. | 74.00  | 10531. | 10350. | 9166.  | 424.24 |
| + | ROUTED TO     | 9R    | 10480. | 82.00  | 10467. | 10295. | 9138.  | 424.24 |
| + | HYDROGRAPH AT | 295   | 1331.  | 41.00  | 1320.  | 1176.  | 638.   | 12.28  |
| + | 2 COMBINED AT | Com9A | 10632. | 81.00  | 10620. | 10455. | 9355.  | 436.52 |
| + | HYDROGRAPH AT | 28S   | 1901.  | 53.00  | 1897.  | 1797.  | 1220.  | 25.91  |
| + | 2 COMBINED AT | Com9B | 11630. | 74.00  | 11619, | 11463. | 10336. | 462.43 |
| + | ROUTED TO     | Rt10  | 11187. | 86.00  | 11174. | 10997. | 9849.  | 462.43 |

|   | DIVERSION TO  |              |        |        |        |       |       |        |
|---|---------------|--------------|--------|--------|--------|-------|-------|--------|
| 2 |               | DIV2         | 2000.  | 86.00  | 2000.  | 2000. | 2000. | 462.43 |
| + | HYDROGRAPH AT | DIV2         | 9187.  | 86.00  | 9174.  | 8997. | 7849. | 462.43 |
| + | HYDROGRAPH AT | 27S          | 2303.  | 29.00  | 2247.  | 1662. | 679.  | 12.15  |
| + | 2 COMBINED AT | Com10A       | 9192.  | 86.00  | 9179.  | 9004. | 7866. | 474.58 |
| + | HYDROGRAPH AT | 268          | 2171.  | 27.00  | 2110.  | 1509. | 598.  | 10.55  |
| + | HYDROGRAPH AT | 2 <b>4</b> S | 746.   | 29.00  | 728.   | 538.  | 220.  | 3.83   |
| + | 3 COMBINED AT | Com10B       | 9194.  | 86.00  | 9181.  | 9009. | 7884. | 488.96 |
| + | ROUTED TO     | Rtll         | 8878.  | 96.00  | 8868.  | 8720. | 7757. | 488.96 |
| + | HYDROGRAPH AT | 22\$         | 1089.  | 35.00  | 1074.  | 898.  | 427.  | 7.55   |
| + | 2 COMBINED AT | Com11A       | 8892.  | 96.00  | 8881.  | 8734. | 7781. | 496.51 |
| + | HYDROGRAPH AT | 20S          | 1266.  | 38.00  | 1254.  | 1098. | 570.  | 10.57  |
| + | 2 COMBINED AT | Com11B       | 8932.  | 95.00  | 8921.  | 8778. | 7846. | 507.08 |
| + | ROUTED TO     | Rt12         | 8884.  | 99.00  | 8874.  | 8728. | 7827. | 507.08 |
|   | HYDROGRAPH AT | 185          | 800.   | 30.00  | 785.   | 608.  | 261.  | 4.69   |
| + | 2 COMBINED AT | Com12        | 8885.  | 99.00  | 8874.  | 8729. | 7831. | 511.77 |
| + | ROUTED TO     | Rt13         | 8865.  | 102.00 | 8855.  | 8710. | 7825. | 511.77 |
| + | HYDROGRAPH AT | 168          | 1039.  | 38.00  | 1027.  | 895.  | 460.  | 9.60   |
| + | 2 COMBINED AT | Com13A       | 8884.  | 102.00 | 8874.  | 8730. | 7861. | 521.37 |
| + | HYDROGRAPH AT | 15 <b>S</b>  | 1774.  | 51.00  | 1769.  | 1665. | 1096. | 25.08  |
| + | 2 COMBINED AT | Com13B       | 9450.  | 47.00  | 9404.  | 9018. | 8612. | 546.45 |
| + | ROUTED TO     | Rt14         | 8984.  | 108.00 | 8976.  | 8868. | 8450. | 546.45 |
| + | HYDROGRAPH AT | 138          | 1504.  | 47.00  | 1497.  | 1389. | 861.  | 19.76  |
| + | 2 COMBINED AT | Com14A       | 9869.  | 55.00  | 9839.  | 9461. | 8968. | 566.21 |
| + | HYDROGRAPH AT | 145          | 1161.  | 37.00  | 1148.  | 993.  | 503.  | 9.53   |
| + | 2 COMBINED AT | Com14B       | 10371. | 54.00  | 10342. | 9947. | 9172. | 575.74 |
| + | ROUTED TO     | Rt15         | 10050. | 60.00  | 10021. | 9670. | 9086. | 575.74 |
|   | HYDROGRAPH AT | 115          | 1846.  | 26.00  | 1780.  | 1207. | 461.  | 8.20   |

| + | 2 COMBINED AT | Com15  | 10088. | 60.00 | 10060. | 9713.  | 9102. | 583.94 |
|---|---------------|--------|--------|-------|--------|--------|-------|--------|
| + | ROUTED TO     | Rt16   | 9657.  | 68.00 | 9635.  | 9364.  | 8986. | 583.94 |
| + | HYDROGRAPH AT | 7\$    | 2078.  | 53.00 | 2072.  | 1962.  | 1327. | 29.41  |
| + | 2 COMBINED AT | Com16  | 11350. | 65.00 | 11318. | 10895. | 9827. | 613.35 |
| + | ROUTED TO     | Rt17   | 10798. | 73.00 | 10780. | 10563. | 9759. | 613.35 |
| + | HYDROGRAPH AT | 6S     | 2125.  | 27.00 | 2061.  | 1435.  | 558.  | 9.21   |
| + | 2 COMBINED AT | Com17  | 10810. | 73.00 | 10793. | 10577. | 9768. | 622.56 |
| + | ROUTED TO     | Rt18   | 10577. | 80.00 | 10556. | 10300. | 9640. | 622.56 |
| + | HYDROGRAPH AT | 45     | 3358.  | 34.00 | 3304.  | 2730.  | 1272. | 22.35  |
| + | 2 COMBINED AT | Com18A | 10695. | 79.00 | 10673. | 10411. | 9708. | 644.91 |
| + | HYDROGRAPH AT | 38     | 979.   | 30.00 | 958.   | 733.   | 310.  | 4.49   |
| + | 2 COMBINED AT | Com18B | 10706. | 79.00 | 10684. | 10421. | 9715. | 649.40 |
| + | ROUTED TO     | Rt19   | 10673. | 82.00 | 10653. | 10394. | 9706. | 649.40 |
| + | HYDROGRAPH AT | 28     | 1786.  | 23.00 | 1702.  | 1041.  | 376.  | 5,35   |
| + | 2 COMBINED AT | Com19A | 10673. | 82.00 | 10653. | 10394. | 9706. | 654.75 |
| + | HYDROGRAPH AT | ıs     | 1221.  | 34.00 | 1206.  | 1007.  | 479.  | 7.47   |
| + | 2 COMBINED AT | Com19B | 10850. | 36.00 | 10788. | 10437. | 9855. | 662.22 |
| + | HYDROGRAPH AT | DIV1   | 6250.  | 76.00 | 6239.  | 6079.  | 4927. | 0.00   |
| + | HYDROGRAPH AT | SC-3A  | 334.   | 72.00 | 334.   | 326.   | 268.  | 5.87   |
| + | 2 COMBINED AT | 20C    | 6583.  | 76.00 | 6571.  | 6403.  | 5195. | 5.87   |
| + | ROUTED TO     | 21R    | 6177.  | 87.00 | 6168.  | 6028.  | 5075. | 5.87   |
| + | HYDROGRAPH AT | 29aR   | 540.   | 36.00 | 534.   | 456.   | 225.  | 4.84   |
| + | 2 COMBINED AT | Com21A | 6197.  | 87.00 | 6188.  | 6050.  | 5121. | 10.71  |
| + | HYDROGRAPH AT | 29R    | 1279.  | 46.00 | 1272.  | 1173.  | 709.  | 18.03  |
| + | 2 COMBINED AT | Com21B | 6434.  | 85.00 | 6424.  | 6296.  | 5568. | 28.74  |
| + | ROUTED TO     | 22R    | 6408.  | 88.00 | 6399.  | 6274.  | 5556. | 28.74  |
| + | HYDROGRAPH AT | 28aR   | 345.   | 26.00 | 333.   | 226.   | 86.   | 2.35   |

| + | 2 COMBINED AT | Com22  | 6408. | 88.00  | 6399. | 627 <b>4</b> . | 5561. | 31.09  |  |
|---|---------------|--------|-------|--------|-------|----------------|-------|--------|--|
| + | ROUTED TO     | Rt23   | 5594. | 106.00 | 5587. | 5495.          | 4951. | 31.09  |  |
| + | HYDROGRAPH AT | 24R    | 1527. | 49.00  | 1521. | 1422.          | 908.  | 22.22  |  |
| + | 2 COMBINED AT | Com23A | 5757. | 104.00 | 5751. | 5664.          | 5235. | 53.31  |  |
| + | HYDROGRAPH AT | 28R    | 359.  | 31.00  | 352.  | 270.           | 114.  | 4.68   |  |
| + | ROUTED TO     | Rt24   | 340.  | 36.00  | 333.  | 257.           | 113.  | 4.68   |  |
| + | HYDROGRAPH AT | 25R    | 925.  | 37.00  | 913.  | 785.           | 392.  | 8.99   |  |
| + | HYDROGRAPH AT | 27R    | 1722. | 49.00  | 1716. | 1602.          | 1018. | 23.93  |  |
| + | 3 COMBINED AT | Com24  | 2734. | 41.00  | 2717. | 2481.          | 1515. | 37.60  |  |
| + | ROUTED TO     | Rt25   | 2703. | 45.00  | 2684. | 2452.          | 1506. | 37.60  |  |
| + | HYDROGRAPH AT | 22R    | 1763. | 45.00  | 1755. | 1617.          | 975.  | 18.04  |  |
| + | 2 COMBINED AT | Com25  | 4466. | 45.00  | 4439. | 4066.          | 2469. | 55.64  |  |
| + | HYDROGRAPH AT | 19R    | 971.  | 40.00  | 962.  | 849.           | 450.  | 11.18  |  |
| + | 3 COMBINED AT | Com23B | 9289. | 48.00  | 9253. | 8807.          | 7352. | 120.13 |  |
| + | ROUTED TO     | Rt26A  | 9253. | 50.00  | 9218. | 8769.          | 7326. | 120.13 |  |
| + | DIVERSION TO  | DIV3   | 335.  | 50.00  | 334.  | 316.           | 258.  | 120.13 |  |
| + | HYDROGRAPH AT | DIV3   | 8918. | 50.00  | 8884. | 8453.          | 7068. | 120.13 |  |
| + | ROUTED TO     | Rt26B  | 8763. | 54.00  | 8728. | 8294.          | 7010. | 120.13 |  |
| + | HYDROGRAPH AT | 20R    | 2594. | 35.00  | 2555. | 2145.          | 1026. | 18.78  |  |
| + | 2 COMBINED AT | Com26  | 9738. | 51.00  | 9697. | 9203.          | 7529. | 138.91 |  |
| + | ROUTED TO     | Rt27A  | 6256. | 88.00  | 6255. | 6236.          | 6095. | 138.91 |  |
| + | HYDROGRAPH AT | 13R    | 1915. | 30.00  | 1875. | 1447.          | 618.  | 11.50  |  |
| + | 2 COMBINED AT | Com27A | 6269. | 86.00  | 6267. | 6246.          | 6108. | 150.41 |  |
| + | HYDROGRAPH AT | 14R    | 1148. | 37.00  | 1134. | 978.           | 491.  | 9.24   |  |
| + | ROUTED TO     | Rt27B  | 1361. | 36.00  | 1134. | 916.           | 457.  | 9.24   |  |
| + | 2 COMBINED AT | Com27B | 6459. | 84.00  | 6456. | 6418.          | 6228. | 159.65 |  |
|   | ROUTED TO     | Rt28   | 6391. | 94.00  | 6388. | 63\$9.         | 6190. | 159.65 |  |

| + | HYDROGRAPH AT | 11R    | 2168. | 25.00  | 2085. | 1348. | 499.  | 10.09  |  |
|---|---------------|--------|-------|--------|-------|-------|-------|--------|--|
| + | 2 COMBINED AT | Com28A | 6391. | 94.00  | 6388. | 6359. | 6190. | 169.74 |  |
| + | HYDROGRAPH AT | 8R     | 1676. | 26.00  | 1620. | 1094. | 415.  | 11.62  |  |
| + | 2 COMBINED AT | Com28B | 6391. | 94.00  | 6388. | 6359. | 6190. | 181.36 |  |
| + | ROUTED TO     | Rt29   | 6363. | 101.00 | 6361. | 6338. | 6174. | 181.36 |  |
| + | HYDROGRAPH AT | 10R    | 3150. | 33.00  | 3103. | 2545. | 1174. | 21.47  |  |
| + | 2 COMBINED AT | Com29  | 7349. | 35.00  | 7279. | 6566. | 6197. | 202.83 |  |
| + | ROUTED TO     | Rt30   | 6671. | 42.00  | 6615. | 6344. | 6189. | 202.83 |  |
| + | HYDROGRAPH AT | 6R     | 1597. | 43.00  | 1586. | 1436. | 815.  | 16.37  |  |
| + | 2 COMBINED AT | Com30A | 8267. | 42.00  | 8201. | 7532. | 6688. | 219.20 |  |
| + | HYDROGRAPH AT | 4R     | 825.  | 30.00  | 806:  | 615.  | 259.  | 4.73   |  |
| + | 2 COMBINED AT | Com30B | 8659. | 41.00  | 8592. | 7852. | 6808. | 223.93 |  |
| + | ROUTED TO     | Rt31   | 7963. | 48.00  | 7910. | 7379. | 6662. | 223.93 |  |
| + | HYDROGRAPH AT | 2R     | 1521. | 25.00  | 1461. | 955.  | 357.  | 5,58   |  |
| + | 2 COMBINED AT | Com31A | 8075. | 47.00  | 8019. | 7472. | 6696. | 229.51 |  |
| + | HYDROGRAPH AT | 3R     | 946.  | 28.00  | 921.  | 661.  | 263.  | 4.47   |  |
| + | 2 COMBINED AT | Com31B | 8238. | 47.00  | 8179. | 7607. | 6746. | 233.98 |  |
| + | ROUTED TO     | Rt32   | 6765. | 62.00  | 6751. | 6604. | 6425. | 233.98 |  |
| + | HYDROGRAPH AT | 1R     | 2905. | 34.00  | 2865. | 2365. | 1101. | 16.89  |  |
| + | 2 COMBINED AT | Com32  | 7259. | 58.00  | 7239. | 7029. | 6601. | 250.87 |  |
| + | HYDROGRAPH AT | DIV3   | 335.  | 50.00  | 334.  | 316.  | 258.  | 0.00   |  |
| + | HYDROGRAPH AT | 17R    | 954.  | 33.00  | 939.  | 768.  | 353.  | 6.47   |  |
| + | 2 COMBINED AT | Com33A | 1107. | 36.00  | 1097. | 958.  | 570.  | 6.47   |  |
| + | HYDROGRAPH AT | 23R    | 3628. | 82.00  | 3625. | 3570. | 3089. | 94.54  |  |
| + | 2 COMBINED AT | Com33B | 3875. | 81.00  | 3872. | 3824. | 3384. | 101.01 |  |
| + | ROUTED TO     | LSV    | 1547. | 139.00 | 1546. | 1539. | 1456. | 101.01 |  |

## SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

INTERPOLATED TO COMPUTATION INTERVAL ISTAQ ELEMENT PEAK TIME TO VOLUME DΤ PEAK TIME TO VOLUME PEAK PEAK (MIN) (CFS) (MTN) (TN) (MIN) (CFS) (MIN) (IN) 60.00 614.33 4260.00 3.76 60.00 614.33 4260.00 3.76 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3685E+04 EXCESS=0.0000E+00 OUTFLOW=0.3686E+04 BASIN STORAGE=0.8150E-02 PERCENT ERROR= 60.00 1059.05 2580.00 3.91 60.00 1059.05 2580.00 3.91 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5883E+04 EXCESS=0.0000E+00 OUTFLOW=0.5889E+04 BASIN STORAGE=0.2276E-01 PERCENT ERROR= 3R MANE 60.00 3859.20 3180.00 4.26 60.00 3859.20 3180.00 4.26 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2114E+05 EXCESS=0.0000E+00 OUTFLOW=0.2111E+05 BASIN STORAGE=0.1006E+00 PERCENT ERROR= 0.1 3R MANE 60.00 506.73 2460.00 4.60 60.00 506.73 2460.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1509E+04 EXCESS=0.0000E+00 OUTFLOW=0.1507E+04 BASIN STORAGE=0.5237E-02 PERCENT ERROR= SAROUT MANE 60.00 2190.54 4140.00 5.53 60.00 2190 54 4140.00 5.53 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1132E+05 EXCESS=0.0000E+00 OUTFLOW=0.1133E+05 BASIN STORAGE=0.6137E+00 PERCENT ERROR= 5A1RT 60.00 2216.61 4320.00 5.31 60.00 2216-61 4320.00 5.31 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1248E+05 EXCESS=0.0000E+00 OUTFLOW=0.1247E+05 BASIN STORAGE=0.2463E+01 PERCENT ERROR= 0.04AROUT MANE 39.00 2399.22 3354.00 4.92 60.00 2398.84 3360.00 4.92 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8063E+04 EXCESS=0.0000E+00 OUTFLOW=0.8066E+04 BASIN STORAGE=0.1845E+00 PERCENT ERROR= 0.04ATROIL MANE 33 00 2431.12 3465.00 5.04 60.00 2429.39 3480.00 5.05 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1024E+05 EXCESS=0.0000E+00 OUTFLOW=0.1024E+05 BASIN STORAGE=0.2400E+00 PERCENT ERROR= 4AABRT MANE 15.00 2946.33 1650.00 60.00 5.04 2872.84 1680.00 5.04 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1168E+05 EXCESS=0.0000E+00 OUTFLOW=0.1169E+05 BASIN STORAGE=0.1024E+01 PERCENT ERROR= -0.11BR MANE 60.00 1389.67 4200.00 7.81 60.00 1389.67 4200.00 7.81 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8329E+04 EXCESS=0.0000E+00 OUTFLOW=0.8329E+04 BASIN STORAGE=0.1072E-01 PERCENT ERROR= 0.02BR MANE 39.95 3269.23 3875.55 6.80 60.00 3269.02 3840.00 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1964E+05 EXCESS=0.0000E+00 OUTFLOW=0.1964E+05 BASIN STORAGE=0.1748E-01 PERCENT ERROR= 0.0 3BR MANE 4081,26 6.59 60.00 41.65 4409,98 4409.93 4080.00 6.59 INUITY SUMMARY (AC-FT) - INFLOW=0.2788E+05 EXCESS=0.0000E+00 OUTFLOW=0.2788E+05 BASIN STORAGE=0.7011E+00 PERCENT ERROR= 0.0

| 4BR                | MANE    | 56.09       | 5174.19   | 4151.03      | 6.68         | 60.00     | 5173.48     | 4140.00   | 6.68                |           |
|--------------------|---------|-------------|-----------|--------------|--------------|-----------|-------------|-----------|---------------------|-----------|
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0. | 3228E+05  | EXCESS=0.000 | 0E+00 OUTFLO | OW=0.3220 | DE+05 BASIN | STORAGE=0 | .1039E+01 PERCENT E | RROR= 0.2 |
| 8BR                | MANE    | 50.18       | 6163.49   | 4265.40      | 6.75         | 60.00     | 6162.93     | 4260.00   | 6.75                |           |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0. | .4031E+05 | EXCESS=0.000 | 0E+00 OUTFL  | O₩=0.403  | 1E+05 BASIN | STORAGE=0 | .2775E+01 PERCENT E | RROR⇒ 0.0 |
| 9R                 | MANE    | 60.00       | 10479.90  | 4920.00      | 3.78         | 60.00     | 10479.90    | 4920.00   | 3.78                |           |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0  | .8556E+05 | EXCESS=0.000 | 0E+00 OUTFL  | O₩=0.854  | 5E+05 BASIN | STORAGE=0 | .2913E+02 PERCENT E | RROR= 0.1 |
| Rt24               | MANE    | 57.00       | 339.66    | 2166.00      | 2.69         | 60.00     | 339.55      | 2160.00   | 2.69                |           |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0  | .6788E+03 | EXCESS=0.000 | 0E+00 OUTFL  | OW=0.672  | 1E+03 BASIN | STORAGE=0 | .2698E+00 PERCENT E | RROR= 0.9 |
| Rt25               | MANE    | 60.00       | 2702.75   | 2700.00      | 4,83         | 60.00     | 2702.75     | 2700.00   | 4.83                |           |
| CONTINUITY SUMMARY | (AC-FT) | - INFLOW=0  | .9688E+04 | EXCESS=0.000 | OE+00 OUTFL  | OW=0.968  | 1E+04 BASIN | STORAGE=0 | .5466E+00 PERCENT E | RROR= 0.1 |

## SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION 5ACANA (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED DURING BREACH FORMATION)

| PLAN | 1 | •••••••••••••••••••••••••••••••••••••• | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>135               |                             | SPILLWAY CRE:<br>140.67<br>1200.<br>0. | 1                             | OF DAM<br>.40.82<br>1348.<br>325. |                             |
|------|---|--|----------------------------------|------------------------------|-----------------------------|--|-------------------------------|-----------------------------------|-----------------------------|
|      |   | RATIO<br>OF<br>PMF                     | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                   |                                  |                              |                             | 2190.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
| PLAN | 1 | ••••                                   | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>115               |                             | SPILLWAY CRE:<br>116.80<br>974.<br>0.  | 3                             | OF DAM<br>17.20<br>1190.<br>1346. |                             |
|      |   | RATIO<br>OF<br>PMF                     | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                   |                                  |                              |                             | 2217.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
| PLAN | 1 |  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITI <b>AL</b><br>160       |                             | SPILLWAY CRE:<br>171.74<br>2155.<br>0. |                               | OF DAM<br>.71.83<br>2217.<br>38.  |                             |
|      |   | RATIO<br>OF<br>PMF                     | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                   |                                  |                              |                             | 2399.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
| PLAN | 1 | •••••                                  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>140               | VALUE<br>-00<br>0.          | SPILLWAY CRE:<br>141.00<br>495.<br>0.  |                               | OF DAM<br>.41.11<br>549.<br>439.  |                             |
|      |   | RATIO<br>OF<br>PMF                     | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                   |                                  |                              |                             | 2431.<br>EACH ANALYSIS<br>STEP USED D  |                               |                                   | 0.00                        |
| PLAN | 1 |  | ELEVATION<br>STORAGE<br>OUTFLOW  | INITIAL<br>110               | VALUE<br>.00<br>0.          | SPILLWAY CRE:<br>113.48<br>330.<br>0.  |                               | OF DAM<br>13.65<br>346.<br>98.    |                             |
|      |   | RATIO<br>OF<br>PMF                     | MAXIMUM<br>RESERVOIR<br>W.S.ELEV | MAXIMUM<br>DEPTH<br>OVER DAM | MAXIMUM<br>STORAGE<br>AC-FT | MAXIMUM<br>OUTFLOW<br>CFS              | DURATION<br>OVER TOP<br>HOURS | TIME OF<br>MAX OUTFLOW<br>HOURS   | TIME OF<br>FAILURE<br>HOURS |
|      |   | 1.00                                   | 114.67                           | 1.02                         | 443.                        | 3043.                                  | 135.00                        | 26.00                             | 0.00                        |

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## HEC-RAS MODEL REVISED EXISTING CONDITIONS NORTH MAIN

HEC-RAS Plan: NM Rev Ex

| Releach   River Sta   O Total   Min Ch B   W.S. Elev   Crit W.S.   E.G. Elev   E.G. Stope   Vel Chrit   Flow Age   Releach   331377   335.00   96.81   103.31   99.54   103.40   0.000493   2.31   144   1   | 3 39.02<br>6 43.84<br>0 55.17<br>4 37.34<br>4 41.76<br>9 46.47<br>7 57.33<br>9 34.45<br>4 38.12                     | 0.20<br>0.20<br>0.20<br>0.18<br>0.18<br>0.19<br>0.19 |
|--|---|--|
| Feeth   331370   | 11 34.47<br>33 39.02<br>66 43.84<br>00 55.17<br>44 37.34<br>44 41.76<br>89 46.47<br>77 57.33<br>9 34.45<br>44 38.12 | 0.20<br>0.20<br>0.20<br>0.18<br>0.18<br>0.19<br>0.19 |
| reach   331370   333.00   98.81   103.31   99.54   103.40   0.000463   2.31   144   106461   331370   654.00   98.81   105.84   100.76   105.85   0.000463   2.52   188   105.84   100.76   105.85   0.000463   2.66   243   144   231370   1228.00   96.81   108.89   102.32   109.04   0.000447   3.11   394   106.84   331370   1228.00   96.81   108.89   102.32   109.04   0.000447   3.11   394   106.84   330227   333.00   96.76   102.82   99.07   102.89   0.000402   2.11   158   108.64   109.76   109.89   109.32   109.04   0.000447   3.11   394   109.84   109.76   109.84   109.85   109.15   109.87   0.000402   2.11   158   109.85   109.15   109.84   109.85   109.15   109.87   0.000371   2.46   265   108.64   300227   654.00   96.76   105.38   100.15   105.47   0.000371   2.46   265   108.64   300227   333.00   96.76   102.78   99.88   102.85   0.000402   2.77   158   109.85   109.05   109.05   1   | 11 34.47<br>33 39.02<br>66 43.84<br>00 55.17<br>44 37.34<br>44 41.76<br>89 46.47<br>77 57.33<br>9 34.45<br>44 38.12 | 0.20<br>0.20<br>0.20<br>0.18<br>0.18<br>0.19<br>0.19 |
| Feech   331370   | 3 39.02<br>6 43.84<br>0 55.17<br>4 37.34<br>4 41.76<br>9 46.47<br>7 57.33<br>9 34.45<br>4 38.12                     | 0.20<br>0.20<br>0.20<br>0.18<br>0.18<br>0.19<br>0.19 |
| Peach 4   331370   654.00   96.81   105.84   100.76   105.95   0.000463   2.68   243   (each 4   331370   1228.00   96.81   108.89   102.32   109.04   0.000047   3.11   334   (each 4   330227   335.00   96.76   102.82   99.07   102.88   0.000402   2.11   138   138   138   138   138   100.00   96.76   104.02   99.97   102.88   0.000402   2.11   138   138   138   138   138   138   138   100.15   105.47   0.000371   2.46   265   108.61   330227   1228.00   96.76   105.38   100.15   105.47   0.000371   2.46   265   108.61   330227   1228.00   96.76   108.44   101.58   108.57   0.000367   2.89   424   101.58   108.57   0.000408   2.77   1228.00   96.76   102.78   98.98   102.85   0.000408   2.77   1228.00   96.76   104.01   99.50   104.10   0.000412   2.40   198   108.61   330128   664.00   96.76   105.33   100.05   105.44   0.000412   2.40   198   108.61   330128   664.00   96.76   105.33   100.05   105.44   0.000412   2.40   198   108.61   330128   664.00   96.76   105.33   100.05   105.44   0.000412   2.40   198   108.61   330128   664.00   96.76   105.33   100.05   105.44   0.000412   2.40   128   108.61   330128   335.00   96.76   105.33   100.05   105.44   0.000412   2.40   128   108.61   330078   664.00   96.76   103.96   99.50   104.08   0.000416   2.41   198   108.61   330078   664.00   96.76   103.96   99.50   104.08   0.000416   2.41   198   108.61   330078   664.00   96.76   103.96   99.50   104.08   0.000416   2.41   198   108.61   330078   664.00   96.76   103.96   99.50   104.00   0.000416   2.41   198   108.61   330078   664.00   96.76   103.96   99.50   104.00   0.000416   2.41   198   108.61   330078   664.00   96.76   103.96   105.31   100.05   105.42   0.000416   2.41   198   108.61   330078   664.00   96.76   103.96   103.50   105.51   100.05   105.51   0.000416   2.41   198   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.61   330078   108.   | 6 43.84<br>0 55.17<br>4 37.34<br>4 41.76<br>99 46.47<br>77 57.33<br>9 34.45<br>44 38.12                             | 0.20<br>0.20<br>0.18<br>0.18<br>0.19<br>0.19         |
| Peech 4   33(327)   1228.00   96.81   108.89   102.32   109.04   0.000447   3.11   394   | 0 55.17<br>4 37.34<br>4 41.76<br>9 46.47<br>77 57.33<br>9 34.45<br>14 38.12<br>19 43.25                             | 0.20<br>0.18<br>0.18<br>0.19<br>0.19                 |
| Feech 4   330227   478 00   96.76   102.82   99.07   102.89   0.000402   2.11   158  | 4 37.34<br>4 41.76<br>9 46.47<br>7 57.33<br>9 34.45<br>14 38.12<br>19 43.25   | 0.18<br>0.18<br>0.18<br>0.19<br>0.19                 |
| resech 4   \$30027   | 4 41.76<br>9 46.47<br>77 57.33<br>9 34.45<br>4 38.12<br>9 43.25   | 0.18<br>0.19<br>0.19                                 |
| resech 4   \$30027   | 4 41.76<br>9 46.47<br>77 57.33<br>9 34.45<br>4 38.12<br>9 43.25   | 0.18<br>0.19<br>0.19                                 |
| resch 4   330027   654.00   96.76   105.38   100.15   105.47   0.000371   2.46   265   108.07   4.26   108.07   1.28   109.07   2.89   424   101.58   108.57   0.000367   2.89   424   101.58   108.57   0.000367   2.89   424   108.57   108.07   108.07   108.07   2.89   424   108.07   108.07   2.89   424   108.07   108.07   108.07   2.89   424   108.07    | 9 46.47<br>77 57.33<br>9 34.45<br>44 38.12<br>9 43.25   | 0.18<br>0.19<br>0.18                                 |
| Pasich 4   380/27   1228.00   96.76   108.44   101.58   108.57   0.000367   2.89   424     Pasich 4   330/128   335.00   96.76   102.78   96.98   102.85   0.000408   2.17   154     Cresch 4   330/128   654.00   96.76   104.01   99.50   104.10   0.000412   2.40   198     Pasich 4   330/128   654.00   96.76   105.33   100.05   105.44   0.000412   2.59   252     Pasich 4   330/128   1228.00   96.76   108.38   101.51   108.55   0.000412   2.41   198     Pasich 4   330/128   1228.00   96.76   108.38   101.51   108.55   0.000414   2.18   153     Pasich 4   330/128   478.00   96.76   103.99   99.50   104.08   0.000416   2.41   198     Pasich 4   330/128   478.00   96.76   105.31   100.05   105.42   0.000416   2.41   198     Pasich 4   330/128   1228.00   96.76   105.31   100.05   105.42   0.000416   2.60   251     Pasich 4   330/128   1228.00   97.01   102.63   99.70   102.76   0.000898   2.90   115     Pasich 4   3280/128   478.00   97.01   102.63   99.70   102.76   0.000898   2.90   115     Pasich 4   3280/128   478.00   97.01   103.87   100.29   104.02   0.000899   3.07   156     Pasich 4   3280/128   478.00   97.01   105.20   100.92   105.30   0.000722   3.19   205     Pasich 4   3280/128   478.00   97.01   105.20   100.92   105.30   0.000722   3.19   205     Pasich 4   3280/128   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   168     Pasich 4   3280/128   335.00   95.26   104.37   96.67   104.45   0.000304   2.29   285     Pasich 4   3280/128   335.00   95.26   104.37   96.67   104.45   0.000304   2.29   285     Pasich 4   3280/128   335.00   95.26   103.37   96.67   104.45   0.000302   2.15   222     Pasich 4   3280/128   335.00   95.26   103.37   96.67   104.45   0.000302   2.15   222     Pasich 4   3280/128   335.00   94.56   103.74   96.17   104.45   0.000302   2.74   447     Pasich 4   3280/128   335.00   94.56   103.74   96.17   104.45   0.000302   2.77   451     Pasich 4   3280/128   335.00   94.56   103.34   97.15   103.82   0.000322   2.77   451     Pasich 4   3280/128   335.00   94.56      | 9 34.45<br>4 38.12<br>9 43.25   | 0.19   |
| Pasch 4   300128   335.00   96.76   102.78   96.96   102.85   0.000408   2.17   154  | 9 34.45<br>14 38.12<br>19 43.25   | 0.18   |
| Pasch 4   330129   335.00   98.76   102.78   98.98   102.85   0.000408   2.17   154     Pasch 4   330128   644.00   96.76   104.01   99.50   104.10   0.000412   2.40   198     Pasch 4   330128   644.00   96.76   105.33   100.05   105.44   0.000412   2.59   252     Pasch 4   330128   1228.00   96.76   108.38   101.51   108.53   0.000425   3.05   402     Pasch 4   330176   335.00   96.76   102.76   99.98   102.83   0.000414   2.18   153     Pasch 4   330078   478.00   96.76   103.99   99.50   104.08   0.000416   2.41   198     Pasch 4   330078   654.00   96.76   105.31   100.05   105.42   0.000416   2.60   251     Pasch 4   330078   1228.00   96.76   105.31   100.05   105.42   0.000416   2.60   251     Pasch 4   330078   335.00   97.01   102.63   99.70   102.76   0.000898   2.90   115     Pasch 4   328975   478.00   97.01   103.87   100.29   104.02   0.000898   3.07   402     Pasch 4   328975   478.00   97.01   103.87   100.29   104.02   0.000898   3.07   105.01     Pasch 4   328975   654.00   97.01   103.87   100.29   104.02   0.000898   3.07   155     Pasch 4   328975   654.00   97.01   108.25   102.51   108.45   0.000722   3.19   205     Pasch 4   328975   1728.00   97.01   108.25   102.51   108.45   0.000722   3.19   205     Pasch 4   328000   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   169     Pasch 4   328000   478.00   95.26   101.97   96.87   104.45   0.000300   2.15   222     Pasch 4   328000   335.00   94.56   100.95   97.09   101.02   0.000300   2.08   160     Pasch 4   328000   335.00   94.56   100.95   97.09   101.02   0.000300   2.08   160     Pasch 4   328000   335.00   94.56   100.95   97.09   101.02   0.000300   2.08   160     Pasch 4   328000   335.00   94.56   100.95   97.09   101.02   0.000300   2.08   160     Pasch 4   328000   335.00   94.56   100.36   96.57   104.45   0.000328   2.27   225     Pasch 4   328000   335.00   94.56   100.36   96.57   100.41   0.000265   1.79   187     Pasch 4   328000   335.00   94.56   100.36   96.57   100.41   0.000265   1.79   187     Pasch   | 9 43.25   |  |
| resch 4         330128         478.00         96.76         104.01         99.50         104.10         0.000412         2.40         198           resch 4         330128         654.00         96.76         105.33         100.05         105.44         0.000412         2.56         252           resch 4         330128         1228.00         96.76         103.88         101.51         108.53         0.000415         3.05         402           resch 4         330078         335.00         96.76         102.76         98.98         102.83         0.000416         2.41         198           resch 4         330078         478.00         96.76         103.99         99.50         104.08         0.000416         2.41         198           resch 4         330078         654.00         96.76         105.31         100.05         105.42         0.000418         2.60         251           resch 4         320975         335.00         97.01         102.63         99.70         102.76         0.00048         3.07         155           resch 4         320975         335.00         97.01         102.63         99.70         102.76         0.000898         2.90         115   | 9 43.25   |  |
| Feech 4   330128   478.00   96.76   104.01   99.50   104.10   0.000412   2.40   198   198ch 4   330128   654.00   96.76   105.33   100.05   105.44   0.000412   2.59   252   252   198.04   330128   1228.00   96.76   108.38   101.51   108.53   0.000425   3.05   402   108.64   330128   335.00   96.76   108.38   101.51   108.53   0.000414   2.16   153   108.64   330078   478.00   96.76   103.99   99.50   104.08   0.000416   2.41   198     | 9 43.25   |  |
| resich 4         330128         654.00         96.76         105.33         100.05         105.44         0.000412         2.59         252           resich 4         330128         1228.00         96.76         108.38         101.51         108.53         0.000425         3.05         402           resich 4         330078         335.00         96.76         102.76         98.98         102.83         0.000414         2.18         153           resich 4         330078         478.00         96.76         103.99         99.50         104.08         0.000416         2.60         251           resich 4         330078         1228.00         96.76         103.99         99.50         104.08         0.000416         2.60         251           resich 4         330078         1228.00         96.76         108.36         101.51         108.51         0.000428         3.06         401           resich 4         328975         335.00         97.01         102.83         99.70         102.76         0.000898         2.90         115           resich 4         328975         478.00         97.01         102.83         100.29         104.02         0.000898         2.90         115   | 9 43.25   |  |
| Pasch 4   330128   1228.00   96.76   108.38   101.51   108.53   0.000425   3.05   402     Pasch 4   330078   335.00   96.76   102.76   98.98   102.83   0.000414   2.18   153     Pasch 4   330078   478.00   96.76   103.99   99.50   104.08   0.000416   2.41   188     Pasch 4   330078   654.00   96.76   105.31   100.05   105.42   0.000418   2.60   251     Pasch 4   330078   1228.00   96.76   108.36   101.51   108.51   0.000428   3.06   401     Pasch 4   329975   335.00   97.01   102.63   99.70   102.76   0.000899   2.90   115     Pasch 4   329975   478.00   97.01   103.87   100.92   104.02   0.000809   3.07   155     Pasch 4   329975   654.00   97.01   108.25   102.51   108.45   0.000644   3.59   342     Pasch 4   329975   1228.00   97.01   108.25   102.51   108.45   0.000644   3.59   342     Pasch 4   329975   1228.00   97.01   108.25   102.51   108.45   0.000644   3.59   342     Pasch 4   329000   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   159     Pasch 4   328000   478.00   95.26   102.97   96.11   103.04   0.000320   2.15   222     Pasch 4   328000   654.00   95.26   102.97   96.11   103.04   0.000320   2.15   222     Pasch 4   328000   336.00   95.26   104.37   98.67   104.45   0.000304   2.29   285     Pasch 4   328000   654.00   95.26   102.97   96.11   103.04   0.000320   2.15   222     Pasch 4   328000   654.00   94.56   102.29   97.63   102.37   0.000359   2.22   215     Pasch 4   328000   654.00   94.56   102.29   97.63   102.37   0.000359   2.22   215     Pasch 4   328000   654.00   94.56   102.29   97.63   102.37   0.000322   2.72   451     Pasch 4   328000   336.00   94.56   102.29   97.63   102.37   0.000322   2.72   451     Pasch 4   328000   336.00   94.56   103.74   98.21   103.82   0.000322   2.72   451     Pasch 4   328000   336.00   94.56   106.80   99.67   106.92   0.000322   2.72   451     Pasch 4   328000   336.00   94.05   106.32   97.15   103.31   0.000256   1.93   247     Pasch 4   328000   654.00   94.05   106.32   97.15   103.39   0.000259   1.80   186     Pasch 4     |   |  |
| reach 4 330078 335.00 96.76 102.76 98.98 102.83 0.000414 2.18 153 misch 4 330078 478.00 96.76 103.99 99.50 104.08 0.000416 2.41 199 nsach 4 330078 654.00 96.76 105.31 100.05 105.42 0.000416 2.60 251 788ch 4 330078 1228.00 96.76 108.36 101.51 108.51 0.000428 3.06 401 788ch 4 330078 1228.00 96.76 109.36 101.51 108.51 0.000428 3.06 401 788ch 4 329075 335.00 97.01 102.63 99.70 102.76 0.000898 2.90 115 788ch 4 329075 478.00 97.01 103.87 100.29 104.02 0.000899 3.07 155 788ch 4 329975 654.00 97.01 105.20 100.92 105.30 0.000722 31.19 205 788ch 4 329975 1228.00 97.01 108.25 102.51 108.45 0.000844 3.59 342 788ch 4 329000 335.00 95.26 101.68 97.59 101.74 0.000328 1.97 169 788ch 4 328000 478.00 95.26 102.97 98.11 103.04 0.000320 2.15 222 788ch 4 328000 654.00 95.26 104.37 98.67 104.45 0.000304 2.29 285 788ch 4 328000 1228.00 95.26 104.37 98.67 104.45 0.000304 2.29 285 788ch 4 328000 654.00 95.26 104.37 98.67 104.45 0.000304 2.29 285 788ch 4 328000 654.00 95.26 107.44 100.13 107.56 0.000316 2.74 447 100.13 107.56 0.000322 2.72 451 100.36 0.000248 100.000248 100.000248 100.000248 100.000248 100.000248 100.000248 100.000248 100.000248 100.000248 1 | <u> </u>  |  |
| Pasich   |   | 0.20   |
| Pasich   | 5 24 20   |  |
| Feech 4   330078   654.00   96.76   105.31   100.05   105.42   0.000416   2.60   251   |   | +  |
| Feech 4   330078   1228.00   96.76   108.36   101.51   108.51   0.000428   3.06   401  |   |  |
| resch 4         329975         335,00         97,01         102,63         99,70         102,76         0,000899         2,90         115           resch 4         329975         478,00         97,01         103,87         100,29         104,02         0,000809         3,07         155           resch 4         329975         654,00         97,01         108,25         102,251         106,36         0,000644         3,59         342           resch 4         329975         1228,00         97,01         108,25         102,51         106,45         0,000644         3,59         342           resch 4         328000         335,00         95,26         101,66         97,59         101,74         0,000328         1,97         169           resch 4         328000         478,00         95,26         104,37         96,67         104,45         0,000320         2,15         222           resch 4         328000         654,00         95,26         104,37         96,67         104,45         0,000316         2,74         447           resch 4         328000         335,00         94,56         100,95         97,09         101,02         0,000316         2,74         447 <td></td> <td></td>   |   |  |
| reach 4         \$28975         478.00         97.01         103.87         100.29         104.02         0.000809         3.07         155           reach 4         \$28975         654.00         97.01         105.20         100.92         105.36         0.000722         3.19         205           reach 4         \$28900         1228.00         97.01         108.25         102.51         108.45         0.000644         3.59         342           reach 4         \$28000         335.00         95.26         101.68         97.59         101.74         0.000328         1.97         169           reach 4         \$28000         478.00         95.26         102.97         98.11         103.04         0.000320         2.15         222           reach 4         \$28000         654.00         95.26         104.37         96.67         104.45         0.000304         2.29         285           reach 4         \$28000         1228.00         95.26         107.44         100.13         107.56         0.000316         2.74         447           reach 4         \$26000         335.00         94.56         109.95         97.09         101.02         0.000390         2.08         160 <td>55.03</td> <td>0.20</td>   | 55.03   | 0.20   |
| reach 4         \$28975         478.00         97.01         103.87         100.29         104.02         0.000809         3.07         155           reach 4         \$28975         654.00         97.01         105.20         100.92         105.36         0.000722         3.19         205           reach 4         \$28900         1228.00         97.01         108.25         102.51         108.45         0.000644         3.59         342           reach 4         \$28000         335.00         95.26         101.68         97.59         101.74         0.000328         1.97         169           reach 4         \$28000         478.00         95.26         102.97         98.11         103.04         0.000320         2.15         222           reach 4         \$28000         654.00         95.26         104.37         96.67         104.45         0.000304         2.29         285           reach 4         \$28000         1228.00         95.26         107.44         100.13         107.56         0.000316         2.74         447           reach 4         \$26000         335.00         94.56         109.95         97.09         101.02         0.000390         2.08         160 <td></td> <td></td>  |   |  |
| Feach 4   329975   654.00   97.01   105.20   100.92   105.36   0.000722   3.19   205     Feach 4   329975   1228.00   97.01   108.25   102.51   108.45   0.000644   3.59   342     Feach 4   329000   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   169     Feach 4   329000   478.00   95.26   102.97   98.11   103.04   0.000320   2.15   222     Feach 4   329000   654.00   95.26   104.37   98.67   104.45   0.000304   2.29   285     Feach 4   329000   1228.00   95.26   107.44   100.13   107.56   0.000316   2.74   447     Feach 4   329000   336.00   94.56   100.95   97.09   101.02   0.000390   2.08   160     Feach 4   329000   336.00   94.56   100.95   97.09   101.02   0.000390   2.08   160     Feach 4   329000   654.00   94.56   102.29   97.63   102.37   0.000359   2.22   215     Feach 4   329000   654.00   94.56   103.74   98.21   103.82   0.000323   2.31   282     Feach 4   329000   335.00   94.56   103.74   98.21   103.82   0.000323   2.31   282     Feach 4   324083   335.00   94.05   106.80   99.67   106.92   0.000322   2.72   451     Feach 4   324083   478.00   94.05   101.74   96.62   101.80   0.000248   1.92   248     Feach 4   324083   654.00   94.05   103.24   97.15   103.31   0.000265   2.02   323     Feach 4   324083   654.00   94.05   103.24   97.15   103.31   0.000269   1.80   168     Feach 4   324005   335.00   94.05   106.29   98.55   106.38   0.000269   1.80   168     Feach 4   324005   335.00   94.05   103.32   97.15   103.39   0.000250   1.93   247     Feach 4   324005   478.00   94.05   103.22   97.15   103.29   0.000228   2.03   322     Feach 4   324005   478.00   94.05   106.27   96.62   101.78   0.000250   1.93   247     Feach 4   324005   478.00   94.05   106.27   96.55   106.36   0.000244   2.45   500     Feach 4   324005   478.00   94.05   106.27   96.55   99.80   0.000344   2.45   500     Feach 4   324005   335.00   94.05   106.27   96.55   99.80   0.000344   2.45   500     Feach 4   324005   335.00   335.00   94.05   106.27   96.55   99.80   0.000344   2.45   500     Feach 4     | 6 30.45   | 0.26   |
| Feech 4   328000   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   169  | 34.86   | 0.26   |
| Feech 4   328000   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   169  | 4 39.57   |  |
| Feach 4   \$28000   335.00   95.26   101.68   97.59   101.74   0.000328   1.97   169   |   |  |
| Feech 4   328000   |   |  |
| Feech 4   328000   | 38.11   | D.16   |
| Feach 4   328000   654.00   95.26   104.37   98.67   104.45   0.000304   2.29   285     Feach 4   328000   1228.00   95.26   107.44   100.13   107.56   0.000316   2.74   447     Feach 4   326000   335.00   94.56   100.95   97.09   101.02   0.000390   2.08   160     Feach 4   326000   478.00   94.56   102.29   97.63   102.37   0.000359   2.22   215     Feach 4   326000   654.00   94.56   103.74   98.21   103.82   0.000323   2.31   282     Feach 4   326000   1228.00   94.56   106.80   99.67   106.92   0.000322   2.72   451     Feach 4   324083   335.00   94.05   100.36   96.12   100.41   0.000265   1.79   187     Feach 4   324083   478.00   94.05   101.74   96.62   101.80   0.000248   1.92   248     Feach 4   324083   1228.00   94.05   103.24   97.15   103.31   0.000226   2.02   323     Feach 4   324083   1228.00   94.05   106.29   98.55   106.38   0.000242   2.45   501     Feach 4   324005   335.00   94.05   100.33   96.12   100.38   0.000242   2.45   501     Feach 4   324005   478.00   94.05   101.72   96.62   101.76   0.000250   1.93   247     Feach 4   324005   654.00   94.05   103.22   97.15   103.29   0.000228   2.03   322     Feach 4   324005   654.00   94.05   101.72   96.62   101.76   0.000265   1.93   247     Feach 4   324005   654.00   94.05   103.22   97.15   103.29   0.000228   2.03   322     Feach 4   324005   654.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   1228.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   1228.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   335.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   335.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   335.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   335.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feach 4   324005   335.00   94.05   106.27   96.54   99.80   0.000314   1.93   173                      |   |  |
| Peach 4   326000   1228.00   95.26   107.44   100.13   107.56   0.000316   2.74   447  |   |  |
| Pesich 4   326000   335.00   94.56   100.95   97.09   101.02   0.000390   2.08   160   |   |  |
| reach4         326000         478.00         94.56         102.29         97.63         102.37         0.000359         2.22         215           reach4         326000         654.00         94.56         103.74         98.21         103.82         0.000323         2.31         282           reach4         326000         1228.00         94.56         106.80         99.67         106.92         0.000322         2.72         451           reach4         324083         335.00         94.05         100.36         96.12         100.41         0.000265         1.79         187           reach4         324083         478.00         94.05         101.74         96.62         101.80         0.000248         1.92         248           reach4         324083         654.00         94.05         103.24         97.15         103.31         0.000265         2.02         323           reach4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186  | 58.19   | 0.17   |
| reach4         326000         478.00         94.56         102.29         97.63         102.37         0.000359         2.22         215           reach4         326000         654.00         94.56         103.74         98.21         103.82         0.000323         2.31         282           reach4         326000         1228.00         94.56         106.80         99.67         106.92         0.000322         2.72         451           reach4         324083         335.00         94.05         100.36         96.12         100.41         0.000265         1.79         187           reach4         324083         478.00         94.05         101.74         96.62         101.80         0.000248         1.92         248           reach4         324083         654.00         94.05         103.24         97.15         103.31         0.000265         2.02         323           reach4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186  |   |  |
| reach 4         326000         654.00         94.66         103.74         98.21         103.82         0.000323         2.31         282           reach 4         326000         1228.00         94.56         106.80         99.67         106.92         0.000322         2.72         451           reach 4         324083         335.00         94.05         100.36         96.12         100.41         0.000265         1.79         187           reach 4         324083         478.00         94.05         101.74         96.62         101.80         0.000248         1.92         248           reach 4         324083         654.00         94.05         103.24         97.15         103.31         0.000246         2.02         323           reach 4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324005         478.00         94.05         101.72         96.62         101.76         0.000260         1.93         247  | 38.16   |  |
| reach 4         326000         1228.00         94.56         106.80         99.67         106.92         0.000322         2.72         451           reach 4         324083         335.00         94.05         100.36         96.12         100.41         0.000265         1.79         187           reach 4         324083         478.00         94.05         101.74         96.62         101.80         0.000248         1.92         248           reach 4         324083         654.00         94.05         103.24         97.15         103.31         0.000226         2.02         323           reach 4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324005         478.00         94.05         101.72         96.62         101.78         0.000260         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.00028         2.03         322   | 60 43.44  | 0.18   |
| reach 4         324083         335.00         94.05         100.36         96.12         100.41         0.000265         1.79         187           reach 4         324083         478.00         94.05         101.74         96.62         101.80         0.000248         1.92         248           reach 4         324083         654.00         94.05         103.24         97.15         103.31         0.000226         2.02         323           reach 4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324005         478.00         94.05         101.72         96.62         101.78         0.000269         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.000260         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.00028         2.03         322  | 55 49.17  | 0.17   |
| reach 4         324083         335.00         94.05         100.36         96.12         100.41         0.000265         1.79         187           reach 4         324083         478.00         94.05         101.74         96.62         101.80         0.000248         1.92         248           reach 4         324083         654.00         94.05         103.24         97.15         103.31         0.000226         2.02         323           reach 4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324006         478.00         94.05         101.72         96.62         101.76         0.000250         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.00028         2.03         322           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.00028         2.03         322      <  | 3 61.26   | 0.18   |
| Feech 4   324083   478.00   94.05   101.74   96.62   101.80   0.000248   1.92   248     Feech 4   324083   654.00   94.05   103.24   97.15   103.31   0.000226   2.02   323     Feech 4   324083   1228.00   94.05   106.29   98.55   106.38   0.000242   2.45   501     Feech 4   324005   335.00   94.05   100.33   96.12   100.38   0.000269   1.80   188     Feech 4   324005   478.00   94.05   101.72   96.62   101.78   0.000250   1.93   247     Feech 4   324005   654.00   94.05   103.22   97.15   103.29   0.000228   2.03   322     Feech 4   324005   1228.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feech 4   324005   335.00   93.17   99.74   95.54   99.80   0.000314   1.93   173     Feech 4   322000   335.00   93.17   99.74   95.54   99.80   0.000314   1.93   173     Feech 4   322000   335.00   93.17   99.74   95.54   99.80   0.000314   1.93   173  |   |  |
| Feech 4   324083   478.00   94.05   101.74   96.62   101.80   0.000248   1.92   248     Feech 4   324083   654.00   94.05   103.24   97.15   103.31   0.000226   2.02   323     Feech 4   324083   1228.00   94.05   106.29   98.55   106.38   0.000242   2.45   501     Feech 4   324005   335.00   94.05   100.33   96.12   100.38   0.000269   1.80   188     Feech 4   324005   478.00   94.05   101.72   96.62   101.78   0.000250   1.93   247     Feech 4   324005   654.00   94.05   103.22   97.15   103.29   0.000228   2.03   322     Feech 4   324005   1228.00   94.05   106.27   98.55   106.36   0.000244   2.45   500     Feech 4   324005   335.00   93.17   99.74   95.54   99.80   0.000314   1.93   173     Feech 4   322000   335.00   93.17   99.74   95.54   99.80   0.000314   1.93   173     Feech 4   322000   335.00   93.17   99.74   95.54   99.80   0.000314   1.93   173  | 2 41.77   | 0.15   |
| reach4         324083         654.00         94.05         103.24         97.15         103.31         0.000226         2.02         323           reach4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach4         324005         478.00         94.05         101.72         96.62         101.78         0.000250         1.93         247           reach4         324005         654.00         94.05         103.22         97.15         103.29         0.000250         1.93         322           reach4         324005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500           reach4         324005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500           reach4         324005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500  |   |  |
| reach 4         324083         1228.00         94.05         106.29         98.55         106.38         0.000242         2.45         501           reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324005         478.00         94.05         101.72         96.62         101.78         0.000250         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.000228         2.03         322           reach 4         324005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500           reach 4         322000         335.00         93.17         99.74         95.54         99.80         0.000314         1.93         173  |   |  |
| reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324005         478.00         94.05         101.72         96.62         101.78         0.000250         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.000228         2.03         322           reach 4         324005         1228.00         94.05         106.27         98.55         108.36         0.000244         2.45         500           reach 4         322000         335.00         93.17         99.74         95.54         99.80         0.000314         1.93         173   |   |  |
| reach 4         324005         335.00         94.05         100.33         96.12         100.38         0.000269         1.80         186           reach 4         324006         478.00         94.05         101.72         96.62         101.78         0.000250         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.00028         2.03         322           reach 4         324005         1228.00         94.05         106.27         98.55         108.36         0.000244         2.45         500           reach 4         322000         335.00         93.17         99.74         95.54         99.80         0.000314         1.93         173  | 64.44   | 0.15   |
| reach 4         324005         478.00         94.05         101.72         96.62         101.78         0.000250         1.93         247           reach 4         324005         654.00         94.05         103.22         97.15         103.29         0.000228         2.03         322           reach 4         324005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500           reach 4         322000         335.00         93.17         99.74         95.54         99.80         0.000314         1.93         173   |   |  |
| reach 4         32/4005         654.00         94.05         103.22         97.15         103.29         0.000228         2.03         322           reach 4         32/4005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500           reach 4         32/2000         335.00         93.17         99.74         95.54         99.80         0.000314         1.93         173  | 41.68   | 0.15   |
| reach 4         32/4005         1228.00         94.05         106.27         98.55         106.36         0.000244         2.45         500           reach 4         32/2000         335.00         93.17         99.74         95.54         99.80         0.000314         1.93         173   | 11 46.98  | 0.15   |
| react 4 322000 335.00 93.17 99.74 95.54 99.80 0.000314 1.93 173  | 19 52.74  | 0.14   |
|  | 70 64.37  | 0.15   |
|  |   |  |
|  | 7 38.96   | 0.16   |
| Total Control  |   | ***************************************              |
| reach 4 322000 654.00 93.17 102.73 96.65 102.80 0.000255 2.13 306  |   |  |
|  |   |  |
| reach 4 322000 1228.00 93.17 105.73 98.13 105.84 0.000278 2.59 474   | 61.47   | 0, 10  |
| 人。1975年,在1974年 1975年 19  |   |  |
| reach 4 320865 335.00 93.05 99.33 95.53 99.41 0.000465 2.27 147  |   |  |
| reach 4 年 320966 478.00 93.05 100.80 96.11 100.89 0.000404 2.37 201  |   |  |
| reach 4 320965 654.00 93.05 102.41 96.71 102.50 0.000346 2.43 269  |   |  |
| reach 4 320985 1228.00 93.05 105.37 98.26 105.50 0.000376 2.94 417   | 40 55.08  | 0.19   |
|  |   |  |
| reach 4 320873 335.00 93.05 99.28 95.53 99.36 0.000479 2.30 145  | 36 34.17  | 0.20   |
| reach 4 320873 478.00 93.05 100.76 96.11 100.85 0.000413 2.39 200  |   |  |
| reach 4 320673 654.00 93.05 102.37 96.71 102.46 0.000351 2.44 267  |   |  |
| reach 4 320973 1228.00 93.05 105.33 98.26 105.47 0.000380 2.96 416   |   |  |
| 122.00 50.00 100.00 100.00 250 Tio   | 54.50   | 0.15   |
| 22500 0000 0000 0000 0000  | 70 07 -   | 2.0  |
| reach 4 320000 335.00 92.95 98.90 95.23 98.97 0.000428 2.15 155  |   |  |
| reach 4 320000 478.00 92.95 100.44 95.76 100.52 0.000345 2.19 218  |   |  |
| reach 4 320000 654.00 92.95 102.11 96.32 102.19 0.000282 2.20 296  |   |  |
| reach 4 320000 1228.00 92.95 105.05 97.78 105.16 0.000304 2.67 460   | 72 61.36  | 0.17   |
| · 是在文字的 100 100 100 100 100 100 100 100 100 10   |   |  |
| reach 4 318000 335.00 91.12 98.20 93.63 98.26 0.000297 1.92 174  | 45 37.2   | 7 0.16   |
| reach 4 318000 478.00 91.12 99.87 94.22 99.93 0.000251 1.98 24   |   |  |
| reach 4 318000 654.00 91.12 101.63 94.83 101.69 0.000214 2.02 323  |   |  |
| reach 4 318000 1228.00 91.12 104.50 96.38 104.60 0.000262 2.56 479   |   |  |
| 100 100 100 100 100 100 100 100 100 100  | 39.73   | 0.16   |
|  | 74  |  |
| reach 4 317530 335.00 91.23 98.05 93.88 98.11 0.000332 1.94 172  |   |  |
| reach 4 317530 478.00 91.23 99.75 94.45 99.81 0.000255 1.92 248  |   |  |
| reach 4 317530 654.00 91.23 101.54 95.04 101.59 0.000203 1.91 342  | 02 56.3   | 6 0.14   |
| reach 4         317530         1228.00         91.23         104.39         96.52         104.48         0.000231         2.36         52  |   | 7 0.15   |

|  | River Sta    | Q Total | Min Ch El   | W.S. Elev    | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chni    | Flow Area | Top Width   | Froude # Cl      |
|--|--------------|---------|-------------|--------------|-----------|-----------|------------|-------------|-----------|-------------|------------------|
|  | ant and a    | (cfs)   | <u>(ft)</u> | (ft)         | (ft)      | (ft)      | (fl/ft)    | (ft/s)      | (sq ft)   | (ft)        | rious & C        |
|  |              |         |             |              |           |           |            |             | 1-4.9     | 1.7         | and the state of |
|  | 317452       | 335.00  | 91.23       | 98.02        | 93.88     | 98.08     | 0.000337   | 1.95        | 171.81    | 40.57       |                  |
|  | 317452       | 478.00  | 91.23       | 99.73        | 94.45     | 99.79     | 0.000257   | 1.93        | 247.56    |             | 0                |
|  | 317452       | 654.00  | 91.23       | 101.52       | 95.04     | 101.58    | 0.000204   | 1.92        |           | 48.24       | 0                |
|  | 317452       | 1228.00 | 91.23       | 104.37       | 96.53     | 104.46    | 0.000233   | 2.36        | 341.11    | 56.29       | 0                |
| Low.   |              |         |             |              |           |           | 0.0002.00  | 2.30        | 519.94    | 69.09       | 0                |
|  | 317000       | 335.00  | 90.93       | 97.87        | 93.55     | 97.93     | 0.000341   | 2.00        | 400.40    |             |                  |
| reach 4  | 317000       | 478.00  | 90.93       | 99.60        | 94.14     | 99.67     | 0.000341   | 2.02        | 166.19    | 35.82       | 0                |
| reach 4  | 317000       | 654.00  | 90.93       | 101.42       | 94.75     | 101.48    |            | 2.03        | 235.75    | 43.22       | 0                |
| reach 4  | 317000       | 1228.00 | 90.93       | 104.24       | 96.29     |           | 0.000222   | 2.04        | 320.05    | 49.88       | 0                |
|  |              |         |             | 104.24       | 90.29     | 104.34    | 0.000271   | 2.58        | 475.68    | 60.29       | 0.               |
|  | 315798       | 335.00  | 90.87       | 07.50        |           |           |            |             |           |             |                  |
| - 1 2  | 315798       | 478.00  |             | 91.53        | 93.00     | 97.58     | 0.000251   | 1.80        | 186.56    | 39.13       | 0.               |
| 2 State 2  | 315796       | 654.00  | 90.87       | 29.34        | 93.52     | 99.39     | 0.000200   | 1.82        | 262.88    | 45.22       | 0                |
| and the second s | 315798       |         | 90.87       | 101.19       | 94.07     | 101.25    | 0.000169   | 1.85        | 352.62    | 51.46       | 0                |
|  |              | 1228.00 | 90.87       | 1/34.00      | 95.51     | 104.07    | 0.000183   | 2.20        | 754.96    | 225.58      | 0                |
| The second secon | THE COMME    |         |             |              |           |           |            |             |           |             |                  |
|  | 315434       | 335.00  | 90.87       | 97.45        | 92.80     | 97.49     | 0.000182   | 1.53        | 218.30    | 46.71       |                  |
| - 100 MOVE AND A STATE OF THE PARTY AND  | 15434        | 478.00  | 90.87       | 99.29        | 93.27     | 99.32     | 0.000140   | 1.54        | 310.96    | 54.28       | 0.               |
| - 1 m / 1/2 m  | 15434        | 654.00  | 90.87       | :01.15       | 93.78     | 101,19    | 0.000116   | 1.56        |           |             | 0                |
|  | 15434        | 1228.00 | 90.87       | 104.03       | 95.11     | 104.04    | 0.000016   | 0.66        | 419.50    | 61.98       | 0.               |
| market of the contract of  | 780 45       |         |             |              |           |           | 0.000,0    | V.00        | 4023.24   | 1192.26     | 0                |
|  | 15287        | 475.00  | 90.32       | 97.36        | 93.19     | 97.44     | 0.000415   | 2 20        |           |             |                  |
| each 3 (south) 3   | 15287        | 760.00  | 90.32       | 99.17        | 94.02     | 99.28     |            | 2.32        | 204.71    | 43.03       | 0.               |
| each 3 (south) 3   | 15287        | 1133.00 | 90.32       | 101.01       | 94.90     |           | 0.000413   | 2.63        | 288.81    | 49.73       | 0.               |
|  | 15287        | 2403.00 | 90.32       | 103.70       |           | 101.15    | 0.000415   | 2.93        | 386.71    | 56.54       | 0.               |
| The second second  | 10.50        |         | 30.32       | 103.70       | 97.14     | 104.00    | 0.000718   | 4.34        | 553.73    | 67.64       | 0.               |
| sech 3 (south) 3   | 14000        | 475.00  | 60 OF       |              |           |           |            |             |           |             |                  |
|  | 14000        | 760.00  | 89.95       | 98.75        | 92.72     | 96.85     | 0.000509   | 2.54        | 186.84    | 39.58       | 0.               |
|  | 14000        |         | 89.95       | 98.56        | 93.60     | 98.69     | 0.000506   | 2.88        | 264.32    | 45.97       | 0.               |
| 1.1.0  |              | 1133.00 | 89.95       | 100.40       | 94.53     | 100.55    | 0.000507   | 3.19        | 354.66    | 52.45       | 0.               |
|  | 14000        | 2403.00 | 89.95       | 102.47       | 96.90     | 102.87    | 0.001081   | 5.10        | 470.94    | 59.76       | 0.               |
|  |              |         |             |              |           |           |            |             | - 47 0.04 | 35.76       |                  |
| 140 4  | 13862        | 475.00  | 89.95       | 96.67        | 92.72     | 96.78     | 0.000532   | 2.58        | 183.81    | 20.04       |                  |
|  | 13862        | 780.00  | 89.95       | 98.48        | 93.60     | 98.62     | 0.000524   | 2.91        |           | 39.31       | 0.               |
| each 3 (south) 3   | 13862        | 1133.00 | 89.95       | 100.32       | 94.53     | 100.48    | 0.000523   |             | 260.83    | 45.70       | 0.               |
| ech 3 (south) 3  | 13862        | 2403.00 | 89.95       | 102.30       | 96.90     | 102.72    |            | 3.23        | 350.66    | 52.18       | 0.               |
|  | J. (a)       |         |             | 102.00       | 30.30     | 102.72    | 0.001124   | 5.21        | 460.98    | 59.17       | 0.               |
| ech 3 (south) 31   | 12000        | 475.00  | 89.03       | 95.84        | 04.50     |           |            |             |           |             |                  |
|  | 12000        | 760.00  | 89.03       |              | 91.56     | 95.92     | 0.000398   | 2.31        | 205.88    | 42.14       | 0.               |
|  | 12000        | 1133.00 | 89.03       | 97.65        | 92.39     | 97.75     | 0.000406   | 2.64        | 287.86    | 48.38       | 0.1              |
|  | 2000         | 2403.00 |             | 99.47        | 93.28     | 99.61     | 0.000418   | 2.97        | 381.92    | 54.73       | 0.2              |
| Carlo (Cook) in a cook   | 12000        | 2403.00 | 89.03       | 102.44       | 95.55     | 102.44    | 0.000028   | 0.88        | 8189.70   | 3241.72     | 0.0              |
| ech 3 (south) 31   | NET F        |         |             |              |           |           |            |             |           |             |                  |
| 4Y.C 3   | 1185         | 475.00  | 88.28       | 95.65        | 90.51     | 95.69     | 0.000189   | 1.68        | 282.08    | 54.34       | 0.               |
| teritore de la companya del companya de la companya del companya de la companya d | 1185         | 760.00  | 88.28       | 97.45        | 91.25     | 97.51     | 0.000203   | 1.96        | 387.42    | 62.22       | 0.               |
|  | 1185         | 1133.00 | 88.28       | 99.28        | 92.06     | 99.35     | 0.000215   | 2.23        | 507.97    |             |                  |
| ach 3 (south) 31   | 1185         | 2403.00 | 88.28       | 102.42       | 94.11     | 102.42    | 0.000039   | 1.08        |           | 70.16       | 0.               |
|  | 8 <b>5</b> % |         |             |              |           |           |            | 1.00        | 7110.73   | 3583.75     | 0.0              |
| ach 3 (south) 31   | 1119         | 475.00  | 88.28       | 95.63        | 90.51     | 95.68     | 0.000190   | 1.00        |           |             |                  |
| ach 3 (south) 31   | 1119         | 760.00  | 88.28       | 97.44        | 91.25     | 97.50     |            | 1.69        | 281.38    | 54.28       | 0.               |
| ach 3 (south) 31   | 1119         | 1133.00 | 88.28       | 99.26        | 92.06     |           | 0.000204   | 1.97        | 386.56    | 62,16       | 0.4              |
|  | 1119         | 2403.00 | 88.28       |              |           | 99.34     | 0.000217   | 2.23        | 508.94    | 70.09       | 0.1              |
| Simulation and an artist of the second   | ALUKA TANTAN | 2,00.00 | 50.20       | 102.41       | 94.10     | 102.42    | 0.000039   | 1.08        | 7101.52   | 3583.63     | 0.0              |
|  | 0000         | 475.00  | 00 00       | 25.55        |           |           |            |             |           |             |                  |
|  | 0000         | 760.00  | 88.03       | 95.39        | 90.29     | 95.45     | 0.000225   | 1.86        | 254.90    | 46.78       | 0.1              |
|  |              |         | 88.03       | 97.17        | 91.06     | 97.24     | 0.000253   | 2.21        | 343.27    | 52.66       | 0.1              |
|  | 0000         | 1133.00 | 88.03       | 98.96        | 91.90     | 99.08     | 0.000279   | 2.56        | 442.85    | 58.51       | 0.1              |
| and the second s | 0000         | 2403.00 | 88.03       | 102.36       | 94.09     | 102.37    | 0.000058   | 1.27        | 6265.52   | 3203.69     | 0.0              |
| 7 (4 7)  | (37).21      |         |             |              |           |           |            |             |           |             | U.(              |
|  | 9000         | 475.00  | 87.73       | 94.92        | 89.99     | 94.97     | 0.000248   | 1.93        | 246.00    | 46.03       |                  |
|  | 8000         | 760.00  | 87.73       | 96.63        | 90.76     | 96.71     | 0.000282   | 2.31        | 329.66    |             | 0.1              |
| Control of the Contro | 9000         | 1133.00 | 87.73       | 98.36        | 91.60     | 98.47     | 0.000314   | 2.67        | 423.89    | 51.65       | 0.1              |
| ch 3 (south) 300   | 9000         | 2403.00 | 87.73       | 102.22       | 93.80     | 102.23    | 0.000076   | 1.55        |           | 57.32       | 0.1              |
|  | #7.50 I      |         |             | <del>-</del> |           |           | 0.000070   | 1.33        | 5467.00   | 3497.48     | 0.0              |
| ch 3 (south) 307   | 7236         | 475.00  | 87.73       | 94.65        | 90.34     | 94.73     | 0.000407   | <del></del> |           |             |                  |
|  | 7236         | 760.00  | 87.73       | 96.33        | 91.19     |           |            | 2.32        | 205.16    | 42.53       | 0.1              |
|  | 7236         | 1133.00 | 87.73       |              |           | 96,44     | 0.000438   | 2.69        | 282.16    | 49.08       | 0.2              |
|  | 7236         | 2403.00 |             | 98.03        | 92.11     | 98.18     | 0.000463   | 3.05        | 371.34    | 55.60       | 0.2              |
| 7 (332.1)  | 200          | 2403.00 | 87.73       | 101.87       | 94.40     | 102.07    | 0.000993   | 3.63        | 661.54    | 140.13      | 0.2              |
| ch 3 (equits)  | 7420         | 477.5   |             |              |           |           |            | _           |           | <del></del> |                  |
|  | 7136         | 475.00  | 87.73       | 94.61        | 90.34     | 94.69     | 0.000417   | 2.34        | 203,32    | 42.36       | 0.1              |
|  | 7136         | 760.00  | 87.73       | 96.28        | 91.19     | 96.40     | 0.000448   | 2.72        | 279.86    | 48.90       |                  |
|  | 7136         | 1133.00 | 87.73       | 97.98        | 92.11     | 98.13     | 0.000473   | 3.07        | 368.56    |             | 0.2              |
| ch 3 (south) 307   | 1136         | 2403.00 | 87.73       | 101.76       | 94.39     | 101.97    | 0.001038   |             |           | 55.43       | 0.2              |
|  |              |         |             |              |           | .01.31    | 3,501030   | 3.72        | 645.88    | 136.33      | 0.3              |
| ch 3 (south) 306   | 0000         | 475.00  | 86.38       | 94.08        | 89.72     | 04 40     | 0.000400   |             |           |             |                  |
|  | 1000         | 760.00  | 86.38       | 95.71        |           | 94.18     | 0.000482   | 2.49        | 190.44    | 39.79       | 0.2              |
|  |              |         |             |              | 90.69     | 95.84     | 0.000532   | 2.92        | 260.17    | 45.99       | 0.2              |
| ich 3 (south) 306  | 0000         | 1133.00 | 86.38       | 97.37        | 91.70     | 97.54     | 0.000569   | 3.32        | 341.70    | 52.33       |                  |

| HFC-RAS_Plan   | n: NM Rev      | Ex (Continu<br>Q Total | ted)<br>Min Ch El | W.S. Elev      | Crit W.S.   | E.G. Elev      | E.G. Slope | Vel Chri     | Flow Area        | Top Width      | Froude # Chi |
|--|----------------|------------------------|-------------------|----------------|-------------|----------------|------------|--------------|------------------|----------------|--------------|
|  |                | (cfs)                  | (ft)              | (ft)           | (ft)        | (ft)           | (ft/ft)    | (fVs)        | (sq ft)          | (ft).          | Frome # Cra  |
| reach 3 (south)  | 306000         | 2403.00                | 86.38             | 100.62         | 94.14       | 100.94         | 0.000783   | 4.51         | 532.29           | 64.91          | 0.28         |
|  |                |                        |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 304000         | 475.00                 | 86.39             | 93.23          | 88.93       | 93.31          | 0.000394   | 2.29         | 207.18           | 42.58          | 0.18         |
| reach 3 (south)  | 304000         | 760.00                 | 86.39             | 94.73          | 89.76       | 94.85          | 0.000461   | 2.76         | 275.20           | 47.84          | 0.20         |
| reach 3 (south)  | 304000         | 1133,00                | 86.39             | 96.30          | 90.66       | 96.46          | 0.000514   | 3.20         | 354.43           | 53.28          | 0.22         |
| reach 3 (south)  | 304000         | 2403.00                | 86.39             | 98,94          | 92.94       | 99.29          | 0.000871   | 4.73         | 507.63           | 62.48          | 0.29         |
| reach 3 (south)  | 302338         | 475.00                 | 86.39             | 92.53          | 88.87       | 92.61          | 0.000450   | 2.24         | 212.20           | 51.95          | 0.20         |
| reach 3 (south)  | 302338         | 760.00                 | 86.39             | 93.95          | 89.64       | 94.06          | 0.000484   | 2.60         | 291.93           | 60.09          | 0.21         |
| reach 3 (south)  | 302338         | 1133.00                | 86.39             | 95.48          | 90.47       | 95.61          | 0.000491   | 2.90         | 390.62           | 68.92          | 0.21         |
| reach 3 (south)  | 302338         | 2403.00                | 86.39             | 98.78          | 92.49       | 98.79          | 0.000103   | 1.11         | 4699.52          | 2114.24        | 0.10         |
|  |                |                        |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 302274         | 475.00                 | 86.39             | 92.47          | 89.15       | 92.57          | 0.000711   | 2.59         | 183.41           | 50.74          | 0.24         |
| reach 3 (south)  | 302274         | 760.00                 | 86.39             | 93.89          | 89.98       | 94.02          | 0.000677   | 2.91         | 260.83           | 58.07          | 0.24         |
| reach 3 (south)  | 302274         | 1133.00                | 86.39             | 95.42          | 90.87       | 95.58          | 0.000638   | 3.19         | 355.62           | 66.03          | 0.24         |
| reach 3 (south)  | 302274         | 2403.00                | 86.39             | 98.75          | 93.02       | 98.78          | 0.000174   | 1.97         | 3443,77          | 2006.82        | 0.13         |
| reach 3 (south)  | 301922         | 475.00                 | 86.39             | 92.32          | 88.43       | 92.39          | 0.000347   | 2.08         | 228.09           | 50.60          | 0.17         |
| reach 3 (south)  | 301922         | 760.00                 | 86.39             | 93.73          | 89.13       | 93.83          | 0.000398   | 2.50         | 303.56           | 56.37          | 0.19         |
| reach 3 (south)  | 301922         | 1133.00                | 86.39             | 95.26          | 89.89       | 95.38          | 0.000429   | 2.87         | 394.11           | 62.54          | 0.20         |
| reach 3 (south)  | 301922         | 2403.00                | 86.39             | 98.66          | 91.86       | 98.71          | 0.000203   | 2.21         | 2857.75          | 1827.50        | 0.14         |
| W. C. Miller S. F.                                       |                |                        |                   |                |             |                |            |              |                  |                |              |
| neach 3 (south)  | 301915         | 475.00                 | 86.39             | 92.32          | 88.42       | 92.38          | 0.000336   | 2.06         | 230.74           | 50.87          | 0.17         |
| reach 3 (south)  | 301915         | 760.00                 | 86.39             | 93.73          | 89.11       | 93.82          | 0.000387   | 2.48         | 306.39           | 56.44          | 0.19         |
| reach 3 (south)  | 301915         | 1133.00                | 86,39             | 96.25          | 89.85       | 95.37          | 0.000419   | 2.86         | 396.65           | 62.37          | 0.20         |
| reach 3 (south)  | 301915         | 2403.00                | 86.39             | 98.67          | 91.81       | 98.69          | 0.000144   | 1.70         | 3968.16          | 2413.90        | 0.12         |
| reach 3 (south)  | 301865         | 475.00                 | 86.39             | 92.30          | 88.42       | 92.36          | 0.000340   | 2.07         | 229.86           | 50.80          | 0.17         |
| reach 3 (south)  | 301865         | 760.00                 | 86.39             | 93.71          | 89.11       | 93.80          | 0.000391   | 2.49         | 305.24           | 56.36          | 0.19         |
| reach 3 (south)  | 301865         | 1133.00                | 86.39             | 95.23          | 89.85       | 95.35          | 0.000423   | 2.87         | 395.28           | 62.27          | 0.20         |
| reach 3 (south)  | 301865         | 2403.00                | 86.39             | 98.66          | 91.81       | 98.69          | 0.000146   | 1.71         | 3949.61          | 2410.13        | 0.12         |
|  |                |                        |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 301721         | 475.00                 | 96.39             | 92.19          | 88.80       | 92.30          | 0.000605   | 2.61         | 181.73           | 43.21          | 0.22         |
| reach 3 (south)  | 301721         | 760.00                 | 86.39             | 93.58          | 89.59       | 93.72          | 0.000678   | 3.09         | 245.70           | 49.21          | 0.24         |
| reach 3 (south)  | 301721         | 1133.00                | 86.39             | 95.08          | 90.44       | 95.27          | 0.000707   | 3,49         | 324.69           | 55,74          | 0.25         |
| reach 3 (south)  | 301721         | 2403.00                | 86.39             | 98.54          | 92.60       | 98.64          | 0.000454   | 3.12         | 1812.74          | 1255.05        | 0.21         |
| reach 3 (south)  | 301656         | 475.00                 | 86.39             | 92.15          | 88.80       | 92.26          | 0.000623   | 2.64         | 179.88           | 43.02          | 0.23         |
| reach 3 (south)  | 301655         | 760.00                 | 86.39             | 93.53          | 89.59       | 93.68          | 0.000697   | 3.12         | 243.32           | 49.00          | 0.25         |
| reach 3 (south)  | 301655         | 1133.00                | 86.39             | 95.03          | 90.44       | 95.22          | 0.000724   | 3.52         | 321.85           | 55.52          | 0.26         |
| reach 3 (south)  | 301655         | 2403.00                | 86.39             | 98.52          | 92.60       | 98.61          | 0.000562   | 2.95         | 1793.50          | 1254.23        | 0.23         |
|  | STAND B. C.    |                        |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 300000         | 475.00                 | 86.39             | 90.58          | 88.49       | 90.77          | 0.001396   |              | 136,19           |                | 0.33         |
| reach 3 (south)  | 300000         | 760.00                 | 86.39             | 91.81          | 89.21       | 92.07          | 0.001423   |              | 187.45           |                | 0.34         |
| reach 3 (south)  | 300000         | 1133.00<br>2403.00     | 86.39<br>86.39    | 93.36<br>96.79 | 90.00       | 93.66<br>97.24 | 0.001269   | 4.38<br>5.42 | 258.51<br>443.67 | 48,48<br>59,53 | 0.33<br>0.35 |
| react o (actury  | 33333          | 2403.00                | 50,39             | 90.79          | 92,07       | 91.24          | 0.001267   | 5,42         | 443.67           | 39.33          | 0.35         |
| reach 3 (south)  | 299385         | 475.00                 | 86.39             | 89.10          | 88.15       | 89.42          | 0.003807   | 4.59         | 103.46           | 42.74          | 0.52         |
| reach 3 (south)  | 299385         | 760.00                 | 86.39             | 90.83          | 88.77       | 91.10          | 0.001765   |              | 182.54           | 48.12          | 0.38         |
| reach 3 (south)  | 299385         | 1133.00                | 86.39             | 92.63          | 89.48       | 92.90          |            | 4.14         | 273.82           | 53.10          |              |
| reach 3 (south)  | 299385         | 2403.00                | 86.39             | 96.10          | 91,34       | 96.51          | 0.001091   | 5.09         | 471.77           | 61.17          | 0.32         |
|  | 42.202         |                        |                   |                |             |                |            |              |                  | <del> </del>   |              |
| reach 3 (south)  | 299378         | Inline Weir            |                   |                | <del></del> |                |            | <del> </del> |                  |                |              |
| reach 3 (south)  | 299365         | 475.00                 | 83.41             | 89.09          | 85.66       | 89.19          | 0.000583   | 2.61         | 181.94           | 41.13          | 0.22         |
| reach 3 (south)  | 299365         | 760.00                 | 83.41             | 90.82          | 86,42       |                |            |              | 258.14           |                |              |
| reach 3 (south)  | 299365         | 1133.00                | 83.41             | 92.62          | 87.25       |                |            |              |                  |                |              |
| reach 3 (south)  | 298365         | 2403.00                | 83.41             | 96.08          | 89.41       | 96.38          | 0.000707   | 4.40         | 545,86           | 63.11          | 0.26         |
|  |                |                        |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 299000         | 475.00                 | 81.06             | 88.72          | 83.49       |                |            |              |                  |                |              |
| reach 3 (south)  | 298000         | 760.00                 | 81.06             | 90.43          |             |                |            |              |                  |                |              |
| reach 3 (south)  | 298000         | 1133.00                | 81.06             |                | 85.05       |                |            |              |                  |                |              |
| reach 3 (south)  | 298000         | 2403.00                | 81.06             | 95.53          | 87.13       | 95.70          | 0.000341   | 3.25         | 738.81           | 80.91          | 0.19         |
| reach 3 (south)  | 297659         | 475.00                 | 81.21             | 88.66          | 83.52       | 88.70          | 0.000158   | 1.54         | 309.29           | 60.49          | 0.12         |
| reach 3 (south)  | 297659         | 760.00                 |                   | 90.38          |             |                |            |              |                  |                |              |
| reach 3 (south)  | 297659         | 1133.00                |                   | 92.16          |             |                |            |              |                  |                |              |
| reach 3 (south)  | 297659         | 2403.00                |                   | 95.45          |             |                |            |              |                  |                |              |
|  |                |                        |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 297557         | 475.00                 |                   | 88.65          |             |                |            |              |                  |                |              |
| reach 3 (south)  | 297557         | 760.00                 |                   | 90.36          |             |                |            |              |                  |                |              |
| reach 3 (south)  | 297557         | 1133.00                |                   |                |             |                |            |              |                  |                |              |
| reach 3 (south)  | 297557         | 2403.00                | 81.21             | 95.42          | 86.92       | 95.55          | 0.000276   | 2.96         | 812.73           | 88.93          | 0.17         |
| <ul> <li>* * * * * * * * * * * * * * * * * * *</li></ul> | CIL CONTRACTOR | 1                      | i                 | I .            | I.          | i              | 1          | 1            | 1                | 1              | 1            |

| Reach                                   | River Sta                                   | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope   | Vel Chnl     | Flow Area         | Top Width       | Froude # Chi |
|---|---|--------------------|----------------|----------------|----------------|----------------|--------------|--------------|-------------------|-----------------|--------------|
| <ul><li>(4) 3分以ではなくなり、。</li></ul>       |   | (cfs)              | (ft)           | (ft)           | (ft)           | (ft)           | (ft/ft)      | (ft/s)       | (sq ft)           | (ft)            | ANGRESH SHIP |
| reach 3 (south)                         | 298000                                      | 475.00             | 80.22          | 88.44          | 82.52          | 88.47          | 0.000121     | 1.45         | 327.62            | 58.13           | 0.11         |
| reach 3 (south)                         | 296000                                      | 760.00             | 80.22          | 90.11          | 83.27          | 90.16          | 0.000148     | 1.78         | 426.63            | 61.94           | 0.12         |
| reach 3 (south)                         | 298000                                      | 2403.00            | 80.22<br>80.22 | 91.87<br>95.06 | 84.08<br>96.06 | 91.94<br>95.16 | 0.000171     | 2.10         | 540.78            | 68.06           | 0.13         |
| reach 3 (south)                         | 25000                                       | 2403.00            | 60.22          | 95.06          | 50.06          | 95, 10         | 0.000219     | 2.71         | 1687.36           | 1159,98         | 0.15         |
| reach:3 (south)                         | 294000                                      | 475.00             | 80.54          | 88.13          | 83.06          | 88.18          | 0.000173     | 1.62         | 292.99            | 56.26           | 0.13         |
| reach:3 (south)                         | 294000                                      | 760.00             | 80.54          | 89.76          | 83.80          | 89.82          | 0.000198     | 1.95         | 388.94            | 61.95           | 0.13         |
| reach 3 (south)                         | 294000                                      | 1133.00            | 80.54          | 91.47          | 84,59          | 91.55          | 0.000218     | 2.27         | 499.91            | 67.94           | 0.15         |
| reach 3 (south)                         | 294000                                      | 2403.00            | 80.54          | 94.42          | 86.53          | 94.60          | 0.000364     | 3.35         | 718.56            | 78.63           | 0.20         |
| فين يتؤينونسند الأيليكون                | 2000  |                    |                |                |                |                |              |              | 7,10.00           | 70.00           | 0.20         |
| reach 3 (south)                         | 292000                                      | 475.00             | 80.24          | 87.82          | 82.42          | 87.85          | 0.000148     | 1.51         | 315.45            | 60.34           | 0.12         |
| reach 3 (south)                         | 292000                                      | 760.00             | 80.24          | 89.39          | 83.14          | 89.45          | 0.000173     | 1.83         | 414.70            | 65.73           | 0.13         |
| reach 3 (south)                         | 292000                                      | 1133.00            | 80.24          | 91.06          | 83.92          | 91.13          | 0.000192     | 2.14         | 529.27            | 71.45           | 0.14         |
| reach 3 (south)                         | 292000                                      | 2403.00            | 80.24          | 93.72          | 85.89          | 93.88          | 0.000351     | 3.29         | 730.81            | 80.56           | 0.19         |
| manage on the state of                  | ALC:  |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south)                         | 290823                                      | 475.00             | 80.24          | 87.63          | 82.44          | 87.67          | 0.000171     | 1.61         | 294.70            | 56.53           | 0.12         |
| reach 3 (south)                         | 290823                                      | 760.00             | 80.24          | 89,16          | 83.17          | 89.22          | 0.000208     | 1.96         | 386.90            | 63.47           | 0.14         |
| reach 3 (south)                         | 290823                                      | 1133.00            | 80.24          | 90.80          | 83.96          | 90.89          | 0.000233     | 2.28         | 497.24            | 70.89           | 0.15         |
| reach 3 (south)                         | 290823                                      | 2403.00            | 80.24          | 93,38          | 85.95          | 93.49          | 0.000292     | 2.87         | 1402.60           | 528.80          | 0.17         |
| The said of the said                    | Village .                                   |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south)                         | 290745                                      | 475.00             | 80.24          | 87.61          | 82.44          | 87.65          | 0.000172     | 1.62         | 293.93            | 56.47           | 0.12         |
| reach 3 (south)                         | 290745<br>290745                            | 760.00<br>1133.00  | 80.24          | 89.15<br>90.79 | 83.17<br>83.96 | 89,21<br>90,87 | 0.000209     | 1.97         | 385.84            | 63.40           | 0.14         |
| reach 3 (south)                         | 290745                                      | 2403.00            | 80.24<br>80.24 | 93.36          | 85.96          | 93.46          | 0.000234     | 2.28         | 495.91<br>1389.97 | 70.80<br>527.59 | 0.15<br>0.18 |
| TOPIC TO COMMANDE                       | 200140                                      | 2405.00            | 50.24          | 55.50          | 85.86          | 93.40          | 0.000320     | 2.50         | 1309.97           | 527,59          | 0.18         |
| reach 3 (south)                         | 290000                                      | 475.00             | 80.24          | 87.50          | 82.16          | 87.54          | 0.000140     | 1.50         | 315.87            | 57.25           | 0.11         |
| reach 3 (south)                         | 290000                                      | 760.00             | 80.24          | 89.01          | 82.83          | 89.06          | 0.000176     | 1.87         | 406.14            | 62.58           | 0.13         |
| reach 3 (south)                         | 290000                                      | 1133.00            | 80.24          | 90.63          | 83.56          | 90,70          | 0.000204     | 2.21         | 512.14            | 68.31           | 0.14         |
| reach 3 (south)                         | 290000                                      | 2403.00            | 80.24          | 92.99          | 85.49          | 93.19          | 0.000413     | 3.51         | 683.77            | 76.69           | 0.21         |
| SECTION OF THE                          | Kara Ameri                                  |                    |                |                |                |                |              |              |                   |                 |              |
| reach 6 (south)                         | 288232                                      | 475.00             | 80.38          | 87.23          | 82.29          | 87.27          | 0.000163     | 1.56         | 304.29            | 59.37           | 0.12         |
| reach 3 (south)                         | 288232                                      | 760.00             | 80.38          | 88.67          | 82.94          | 88.73          | 0.000203     | 1.93         | 394.26            | 65.63           | 0.14         |
| reach 3 (south)                         | 288232                                      | 1133.00            | 80.38          | 90.24          | 83.66          | 90.32          | 0.000230     | 2.25         | 502.70            | 72.45           | 0.15         |
| reach 3 (south)                         | 288232                                      | 2403.00            | 80.38          | 92.58          | 85.55          | 92.63          | 0.000196     | 2.33         | 2905.76           | 2377.11         | 0.14         |
| orie calificació                        |   |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south)                         | 288165                                      | 475.00             | 80.38          | 87.21          | 82.29          | 87.25          | 0.000165     | 1.57         | 303.05            | 59.28           |              |
| reach 3 (south)                         | 288165                                      | 760.00             | 80.38          | 88.86          | 82.95          | 88.71          | 0.000204     | 1.93         | 393.35            | 65.57           | 0.14         |
| reach 3 (south)                         | 288165                                      | 1133.00            | 80.38          | 90.23          | 83.66          | 90.30          |              | 2.26         | 501,55            | 72.38           | 0.15         |
| reach 3 (south)                         | 288165                                      | 2403.00            | 80.38          | 92.57          | 85.55          | 92.63          | 0.000198     | 2.34         | 2885.68           | 2389.97         | 0.14         |
| The Control of the                      | 288000                                      | 475.00             | 80.38          | 87.17          | 82.37          | 87.22          | 0.000211     | 1.77         | 267.72            | 51.19           | 0.14         |
| reach 3 (south)                         | 288000                                      | 760.00             | 80.38          | 88.60          | 83.07          | 88.67          | 0.000211     | 2.21         | 344.55            | 56,16           |              |
| reach 3 (south)                         | 288000                                      | 1133.00            | 80.38          | 90.15          | 83.83          | 90.26          | 0.000307     | 2.60         | 436.02            | 61.55           |              |
| reach 3 (south)                         | 288000                                      | 2403.00            | 80.38          | 92.57          | 85.84          | 92.58          | 0.000152     | 1.31         | 4689.62           | 3044,41         | 0.17         |
| CALL CLASS II                           | Zana za |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south)                         | 286897                                      | 903.00             | 80.37          | 86.75          | 82.67          | 86.85          | 0.000434     | 2.52         | 358.29            | 71.38           | 0.20         |
| reach 3 (south)                         | 286897                                      | 1384.00            | 80.37          | 88.09          | 83.39          | 88.23          |              | 3.02         | 458.47            | 77.91           | 0.22         |
| reach 3 (south)                         | 286897                                      | 2002.00            | 80.37          | 89.59          | 84.21          | 89.77          | 0.000544     | 3.45         | 580.13            | 84.82           | 0.23         |
| reach 3 (south)                         | 286897                                      | 4084.00            | 80.37          | 92.16          | 86.33          | 92.29          | 0.000440     | 3.43         | 2954.35           | 2064.92         | 0.21         |
| · · · · · · · · · · · · · · · · · · ·   |   |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south):                        | 285000                                      | 903.00             | 80,36          | 86.25          | 82.75          | 86.38          |              | 2.94         |                   |                 |              |
| reach 3 (south)                         | 288000                                      | 1384.00            | 80.36          | 87.49          | 83.49          | 87.69          |              | 3.55         |                   |                 |              |
| reach 3 (south)                         | 266000                                      | 2002.00            | 80.36          | 88.93          | 84.31          | 89.18          |              | 4.06         |                   |                 |              |
| reach 3 (south)                         | 286000                                      | 4084.00            | 80.36          | 91.47          | 86.47          | 91.75          | 0.000800     | 4.71         | 2132.37           | 2196.68         | 0.29         |
|   | Complete                                    |                    | 22.22          | 20.45          | 20.00          |                | 0.000000     | 7.00         | 400.00            | 50.00           |              |
| reach 3 (south)                         | 284529                                      | 903.00             | 80.36          | 83,15          | 82.83          | 83.99          |              | 7.35         |                   |                 |              |
| reach 3 (south)                         | 284529                                      | 1384.00            | 80.36          | 84.69          | 83.59          | 85.39          |              | 6.73         |                   |                 |              |
| reach 3 (south)                         | 284529<br>284529                            | 2002.00<br>4064.00 | 80.36<br>80.36 | 86.59<br>90.30 | 84.43<br>86.62 | 87.19<br>90.38 |              | 6.20<br>3.21 |                   |                 |              |
| reach 3 (south)                         | 204028                                      | 4004.00            | 80.30          | 50.50          | 80.02          | 30.30          | 0.000861     | 3.21         | 2011.20           | 2053.50         | 0.28         |
| reach 3 (south)                         | 284517                                      | Inline Weir        |                |                |                | <del></del>    | <del> </del> |              | <del> </del>      | <del> </del>    |              |
| 100213 (80001)                          | 204017                                      | AUII IO VVOII      |                |                |                |                | <del></del>  | <del></del>  |                   |                 |              |
| reach 3 (south)                         | 284600                                      | 903.00             | 74.78          | 82.83          | 77.50          | 82.91          | 0.000299     | 2.36         | 383.36            | 62.77           | 0.17         |
| reach 3 (south)                         | 284500                                      | 1384.00            | 74.78          | 84.68          |                | 84.80          |              |              |                   |                 |              |
| reach 3 (south)                         | 284500                                      | 2002.00            | 74.78          | 86.58          |                | 86.73          |              | <del></del>  |                   |                 |              |
| reach 3 (south)                         | 284500                                      | 4084.00            | 74.78          | 90.29          |                | 90,36          |              |              |                   |                 |              |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Magazini (are                               |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south)                         | 284287                                      | 903.00             | 74.78          | 82.74          | 77.63          | 82.84          | 0.000360     | 2.55         | 353.94            | 58.57           | 0.10         |
| reach 3 (south)                         | 284287                                      | 1384.00            | 74.78          | 84.59          | 78.48          | 84.72          | 0.000387     | 2.96         |                   | 65.09           |              |
| reach 3 (south)                         | 284287                                      | 2002.00            | 74.78          | 96.47          | 79.44          | 86.65          | 0.000413     | 3.35         | 597.04            | 71.74           | 0.20         |
| reach 3 (south)                         | 284287                                      | 4084.00            | 74.78          | 89.87          | 81.89          | 90.17          | 0.002045     | 4.34         | 940.60            | 267.10          | 0.4          |
| 1.0                                     | 10.00                                       |                    |                |                |                |                |              |              |                   |                 |              |
| reach 3 (south)                         | 284201                                      | 903.00             | 74.78          | 82.70          |                |                |              |              |                   |                 |              |
|   | 284201                                      | 1384.00            | 74.78          | 84.55          | 78.48          | 84.66          | 0.000393     | 2.97         | 465.3             | 64.9            | 0.20         |

HFC-RAS Plan: NM Rev Fx (Continued)
Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cfs) (ff)(ft) (11) (11) (ft/ft) (fVs) (fi pa) (ft) reach 3 (south) 284201 2002.00 74.78 86.43 79.44 86.61 0.000419 3 37 593.96 71,59 0.21 reach 3 (south) 284201 4084.00 74.78 89.64 81.89 89.99 0.001955 4.73 864.16 207.68 0.41 reach 3 (south) 903.00 73.32 82.65 76.89 82.73 0.000298 2,32 389.02 64.43 0.17 284000 73.32 reach 3 (south) 1384.00 84.49 77.98 84.60 0.000318 2.69 513,77 70.98 0.18 reach 3 (south) 284000 2002.00 73.32 86.38 79.16 86.52 0.000338 3.06 653 65 77.54 0.19 reach 3 (south) 284000 4084.00 73.32 89.47 81.45 89,79 0.000560 4.48 910.66 88.32 0.25 reach 3 (south) 282000 903.00 73.33 82.15 76.09 82.22 0.000222 2.12 425.26 64.74 0.15 reach 3 (south) 282000 1384.00 73.33 83.93 76.93 84.03 2.53 546.51 71,48 0.000260 0.16 reach 3 (south) 282000 2002.00 73.33 85.75 77.85 85.89 0.000294 2.93 683.43 78,38 0.17 reach 3 (south) 282000 4084 00 73.33 88.33 80.24 88.65 0.000580 4 55 897.54 88.10 0.25 reach 3 (south) 280327 903.00 73.32 81.70 76.21 81.79 0.000295 2.34 385.16 62.92 0.17 reach 3 (south) 280327 1384.00 73.32 83.41 77.08 83.53 0.000340 2.78 498.49 69.94 0.18 280327 2002.00 73.32 78.03 0.000377 628.16 reach 3 (south) 85,17 85.33 3.19 77.18 0.20 280327 87.63 0.000417 reach 3 (south) 4084.00 73.32 80.46 87.78 3.61 2508.25 1262.45 0.21 reach 3 (south) 280263 903.00 73.32 81.68 76.22 81.77 0.000298 2.35 383.93 62.84 0.17 reach 3 (south) 280263 1384.00 73.32 83.39 77.08 83.51 0.000343 2.79 496.90 69.84 0.18 0.000381 77.08 reach 3 (south) 2002.00 73.32 85.15 78.03 85.31 3.20 626.20 0.20 280263 4084.00 0.000428 2466.83 1261.93 reach 3 (south) 73.32 87.60 80.46 87.75 3.65 0.21 reach 3 (south) 280000 903 00 73.32 81.61 76.11 81 69 0.000290 2.34 385 26 61.80 0.17 reach 3 (south) 280000 1384.00 73.32 83.30 76.96 83.42 0.000339 2.80 494.87 68.03 0.18 2002.00 73.32 77.90 0.20 reach 3 (south) 85.04 85.21 0.00038 3.23 619.41 74.48 reach 3 (south) 280000 4084.00 73.32 87.48 80.32 87.64 0.000410 3.71 2464.67 1202.43 0.21 278000 903.00 73.32 80.84 76.35 80.96 0.000480 323.11 58.70 0.21 reach 3 (south) 2.79 reach 3 (south) 278000 1384.00 73.32 82.40 77.25 82 57 0.000543 3.30 419 77 64.84 0.23 reach 3 (south) 278000 2002.00 73.32 84.04 78.20 84.26 0.000593 3.76 531.77 71,67 0.24 reach 3 (south) 278000 4084.00 73.32 86.89 80.62 86.96 0.000265 2.85 3781.54 1732.83 0.17 74.04 3.10 62.82 0.25 276000 903.00 79.64 76.44 79.79 0.000733 291.15 reach 3 (south) reach 3 (south) 276000 1384.00 74.04 81.10 77.16 R1 30 0.000751 3.58 386 87 68 12 0.26 reach 3 (south) 276000 2002.00 74.04 82.67 77.98 82.92 0.000759 4.01 498.66 73.94 0.27 reach 3 (south) 276000 4084.00 74.04 85.36 80.12 85.86 0.001540 5.66 721.64 109.43 0.39 78.27 78.65 53.02 reach 3 (south) 275122 903.00 74.04 76.70 0.002714 4.93 183,01 0.47 0.41 reach 3 (south) 275122 1384.00 74.04 79.88 77.48 80.28 0.001965 5.03 275.41 60.45 reach 3 (south) 275122 2002.00 74.04 81.54 78 35 81.98 0.001595 5 27 380.03 65.75 0.39275122 74.04 83.82 0.001878 1363.52 1485.05 0.43 reach 3 (south) 4084.00 80.59 84.36 6.41 275113 Inline Weir reach 3 (south) 275102 70.28 78.27 78.35 0.000324 375,42 63.03 0.17 903.00 72.94 2.41 reach 3 (south) reach 3 (south) 275102 1384.00 70.28 79.88 73.78 80.00 0.000376 2 88 481 16 68 46 0.19 275102 2002.00 70.28 81.54 74.70 81.71 0.000425 3.34 599.96 74 57 0.21 reach 3 (south) 1583.29 1542.64 0.29 reach 3 (south) 275102 4084.00 70.28 83.81 77.18 84.13 0.000792 4.74 70.28 0.000077 703.95 107.41 0.09 274837 903.00 78.27 72.00 78.30 1.28 reach 3 (south) reach 3 (south) 274837 1384.00 70.28 79.90 72.55 79.93 0.000094 1.56 884.43 115.09 0.10 1083.42 122.35 reach 3 (south) 274837 2002 00 70.28 81.57 73.16 81 62 0.000109 1.85 0.11 reach 3 (south) 274837 4084.00 70.28 83.87 74.81 83.96 0.000166 2.54 3171.42 2383.96 0.14 70.28 2.08 433.32 70.35 0.15 reach 3 (south) 274000 903.00 78.12 72.68 78,19 0.000229 1384.00 70.28 79.70 73.43 79.80 0.000276 2.52 549.41 76.68 0.17 reach 3 (south) 274000 **B3.46** reach 3 (south) 274000 2002.00 70.28 81.34 74.25 81.47 0.000319 2.94 680.10 0.18 reach 3 (south) 274000 4084.00 70.28 83.56 76.43 83.74 0.000422 3.75 2792 61 3469.64 0.21 reach 3 (south) 272412 903.00 70.28 77.79 72.47 77.85 0.000200 1.92 469,71 78.64 0.14 593.81 85.29 0.16 reach 3 (south) 272412 1384.00 70.28 79.30 73.15 79.39 0.000241 2.33 733.31 92.20 0.17 70.28 80.88 0.000278 2.73 272412 2002.00 73.91 80.99 reach 3 (south) 4.55 898.06 99.70 0.27 reach 3 (south) 272412 4084.00 70.28 82.59 75.92 82,91 0.000657 271000 1163.00 70.27 77.30 72.82 77.42 0.000440 2.80 415.21 70.32 0.20 reach 3 (south) 70.27 73.58 78.88 0.000519 3.36 517.16 74.81 0.23 reach 3 (south) 271000 1740.00 78.70 80.17 74.41 80.40 0.000594 3.93 630.05 79.55 0.25 271000 2473.00 70,27 reach 3 (south) 5275.87 2528.04 0.15 70.27 82.29 76.64 82.34 0.000211 2.59 reach 3 (south) 271000 4913.00 0.001242 57.16 0.33 reach 3 (south) 269920 1163.00 70.27 76.39 73 37 76.66 4.16 279.53 1740.00 70.27 77.60 74.25 77.98 0.001444 4.95 351.59 61 71 0.37 reach 3 (south) 269920 433.54 66.48 0.39 reach 3 (south) 269920 2473.00 70.27 78.88 75.21 79.39 0.001613 5.70 269920 70.27 81.80 77.73 81.93 0.000846 3.86 3032.34 2073.85 0.28 reach 3 (south) 4913.00

| Reach                         | River Sta                                   | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope  | Vel Chril   | Flow Area   | Top Width | Froude # Chl |
|-------------------------------|---|--------------------|----------------|----------------|----------------|----------------|-------------|-------------|-------------|-----------|--------------|
|                               |   | (cfs)              | (ft)           | (ft)           | (ft)           | (我)            | (fVft)      | (ft/s)      | (sq ft)     | (ft)      |              |
|                               |   |                    |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 269788                                      | 1163.00            | 70.27          | 76.19          | 73.37          | 76.48          | 0.001399    | 4.34        | 268.18      | 56.41     | 0.35         |
| reach 3 (south)               | 269788                                      | 1740.00            | 70.27          | 77.36          | 74.25          | 77.78          | 0.001631    | 5.17        | 336.87      | 60.81     | 0.39         |
| reach 3 (south)               | 269788                                      | 2473.00            | 70.27          | 78.60          | 75.21          | 79.16          | 0.001822    | 5.96        | 415.27      | 65.45     | 0.42         |
| reach 3 (south)               | 269788                                      | 4913.00            | 70.27          | 81.64          | 77.73          | 81.81          | 0.001026    | 4.23        | 2722.36     | 1785.55   | 0.31         |
| mant 3 (earth)                | 269131                                      | 1163.00            | 70.27          | 73.45          | 73.16          | 74,47          | 0.009774    | 8.12        | 143.30      | 51.78     | 0.86         |
| reach 3 (south)               | 269131                                      | 1740.00            | 70.27          | 74.56          | 73.18          | 75.70          | 0.009774    | 8.57        | 203.12      | 56.18     | 0.79         |
| reach 3 (south)               | 269131                                      | 2473.00            | 70.27          | 76.28          | 74.87          | 77.29          | 0.007693    | 8.10        | 305.45      | 62.97     | 0.75         |
| reach 3 (south)               | 269131                                      | 4913.00            | 70.27          | 78.56          | 77.24          | 80.34          | 0.005729    | 10.69       | 459.43      | 71.66     | 0.74         |
| TOBOLI O (SOCIETA             | 200101                                      | 4913.00            | 70.27          | 70.30          | 17.24          |                | 0.003729    | 10.05       | 405.40      | 77.00     | 0.74         |
| reach 3 (south)               | 269121                                      | Inline Weir        |                |                |                |                |             |             |             |           |              |
| TOBAL O (SOULI)               | 110000                                      | IIIII IO VVOII     |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 269108                                      | 1163.00            | 65.34          | 72.97          | 68.34          | 73.13          | 0.000571    | 3.22        | 361.12      | 59.02     | 0.23         |
| reach 3 (south)               | 269108                                      | 1740.00            | 65.34          | 74.55          | 69.22          | 74.78          | 0.000653    | 3.79        | 459.27      | 64.66     | 0.25         |
| reach 3 (so-th)               | 269108                                      | 2473.00            | 65.34          | 76.27          | 70.20          | 76.56          | 0.000709    | 4.30        | 575.78      | 71.17     | 0.27         |
| reach 3 (south)               | 269108                                      | 4913.00            | 65.34          | 78.56          | 72.81          | 79.23          | 0.001383    | 6.56        | 749.43      | 80.94     | 0.38         |
| Patrata afrikasa-             | 1 W. J. |                    |                |                |                |                | 5.55.1555   | 0.00        |             |           |              |
| reach 3 (south)               | 268000                                      | 1163.00            | 65.34          | 72.34          | 68.20          | 72.48          | 0.000584    | 3.09        | 376.53      | 69.01     | 0.23         |
| reach 3 (south)               | 268000                                      | 1740.00            | 65.34          | 73.86          | 69.02          | 74.06          | 0.000632    | 3.58        | 486.69      | 75.60     | 0.25         |
| reach 3 (south)               | 268000                                      | 2473.00            | 65.34          | 75.55          | 69.93          | 75.79          | 0.000646    | 3.98        | 620.58      | 82.90     | 0.26         |
| reach 3 (south)               | 268000                                      | 4913.00            | 65.34          | 76.85          | 72.27          | 77.54          | 0.001667    | 6.71        | 732.55      | 89.92     | 0.41         |
|                               |   |                    |                |                |                |                |             |             | 1 2.50      |           |              |
| reach 3 (south)               | 266696                                      | 1163.00            | 65.32          | 71.36          | 68.10          | 71.55          | 0.000898    | 3.54        | 328.96      | 68.48     | 0.28         |
| reach 3 (south)               | 266898                                      | 1740.00            | 65.32          | 72.83          | 68.90          | 73.08          | 0.000903    | 4.00        | 434.93      | 75.20     | 0.29         |
| reach 3 (south)               | 266698                                      | 2473.00            | 65.32          | 74.54          | 69.76          | 74.83          | 0.000849    | 4.34        | 570.23      | 82.99     | 0.29         |
| reach 3 (south)               | 268898                                      | 4913.00            | 65.32          | 75.77          | 72.02          | 75.96          |             | 4.45        | 3616.03     | 3338.32   | 0.28         |
| 10.00                         | polyacy, to the                             |                    |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 200688                                      | Inline Weir        |                |                |                |                |             |             |             |           |              |
|                               | 4 1 4 1 4 1                                 |                    |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 288879                                      | 1163.00            | 61,46          | 71.35          | 64.34          | 71.41          | 0.000154    | 1.93        | 601.74      | 61.07     | 0.13         |
| reach 3 (south)               | 266679                                      | 1740.00            | 61.46          | 72.83          | 65.13          | 72.92          | 0.000204    | 2.40        | 725.64      | 96.84     | 0.15         |
| reach 3 (south)               | 266679                                      | 2473.00            | 61.46          | 74.53          | 65.99          | 74.66          | 0.000241    | 2.81        | 879.53      | 93.60     | 0.16         |
| reach 3 (south)               | 266679                                      | 4913,00            | 61.46          | 75.76          | 68.27          | 75.91          | 0.000359    | 3.60        | 3980.37     | 3349.77   | 0.20         |
| 4 11 11                       |   |                    |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 266000                                      | 1163.00            | 59.80          | 71.28          | 62.65          | 71.32          | 0.000091    | 1.61        | 723.97      | 85.99     | 0.10         |
| reach 3 (south)               | 266000                                      | 1740.00            | 59.80          | 72.73          | 63.46          | 72.79          | 0.000129    | 2.04        | 852.55      | 91.61     | 0.12         |
| reach 3 (south)               | 266000                                      | 2473.00            | 59.80          | 74.42          | 64.37          | 74.51          | 0.000160    | 2.43        | 1094.96     | 802.82    |              |
| reach 3 (south)               | 266000                                      | 4913.00            | 59.80          | 75.56          | 66.69          | 75.69          | 0.000269    | 3.28        | 4179.72     | 3291.04   | 0.17         |
| and the state of the state of |   |                    |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 265565                                      | 1163.00            | 59.80          | 71.21          | 63.32          | 71.27          | 0.000149    |             | 608.16      |           | 0.12         |
| reach 3 (south)               | 265665                                      | 1740,00            | 59.80          | 72.63          | 64.27          | 72.72          |             | +           | 728.72      |           |              |
| reach 3 (south)               | 266565                                      | 2473.00            | 59.80          | 74.35          | 65.28          | 74.44          |             | 2.47        | 2006.38     |           |              |
| reach 3 (south)               | 265565                                      | 4913.00            | 59.80          | 75.50          | 67.84          | 75.57          | 0.000214    | 2.72        | 5931.51     | 3897.41   | 0.15         |
| 4,300 mg                      | - Salata Lagra                              |                    |                |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 265509                                      | 1163.00            | 59.80          | 71.21          | 63.33          | 71.26          |             |             | 607.47      |           |              |
| reach 3 (south)               | 265509                                      | 1740.00            | 59.80          | 72.62          | 64.27          | 72.71          |             | <del></del> |             |           |              |
| reach 3 (south)               | 285509                                      | 2473.00            | 59.80          | 74.34          | 65,28          | 74.42          |             |             |             |           |              |
| reach 3 (south)               | 265509                                      | 4913.00            | 59.80          | 75.49          | 67.84          | 75.55          | 0.000217    | 2.74        | 5878.74     | 3896.96   | 0.15         |
|                               | and the second                              | 1100.00            | 50.75          | 74.04          | 62.81          | 74.00          |             | 1.80        | 645.15      | 78.57     | 0.1          |
| reach 3 (south)               | 264000                                      | 1163,00            | 59.75          | 71.01          |                | 71.06          |             |             |             |           |              |
| reach 3 (south)               | 264000                                      | 1740.00            | 59.75          | 72.34          | 63.67          | 72.42          |             |             |             |           |              |
| reach 3 (south)               | 264000                                      | 2473.00<br>4913.00 | 59.75<br>59.75 | 74.17<br>75.27 | 64.59<br>67.02 | 74.21<br>75.29 |             |             |             |           |              |
| reach 3 (south)               | 264000                                      | 4913.00            | 59.75          | 15.21          | 01.02          | 75.28          | 0.00012/    | 1.09        | 0000.38     | 3000.73   | V.1          |
| reach 3 (south)               | 262000                                      | 1163.00            | 59.40          | 70.76          | 62.47          | 70.81          | 0.000127    | 1.85        | 628.72      | 76.50     | 0.1          |
| reach 3 (south)               | 262000                                      | 1740.00            | 59.40          | 71.97          | 63.37          |                |             |             |             |           |              |
| reach 3 (south)               | 262000                                      | 2473.00            | 59.40          | 73.68          |                |                |             | <del></del> | <del></del> |           |              |
| reach 3 (south)               | 262000                                      | 4913.00            | 59.40          | 75.00          |                |                |             |             |             |           |              |
| - Sauto (accer)               | and a second second                         | -510.00            | 50.40          |                | 55.00          | 7 0.01         | 5,000,140   | 1,02        | , , , , , , |           | 7.1          |
| reach 3 (south)               | 260000                                      | 1425.00            | 59.40          | 70.45          | 62.84          | 70.50          | 0.000194    | 1.84        | 773.53      | 136.75    | 0.14         |
| reach 3 (south)               | 260000                                      | 2109.00            | 59.40          | 71.51          |                |                |             |             |             |           |              |
| reach 3 (south)               | 260000                                      | 2978.00            | 59.40          | 72.98          |                |                |             |             |             |           |              |
| reach 3 (south)               | 260000                                      | 5843.00            | 59.40          | 74.70          |                | 74.73          |             |             |             |           |              |
| (33,000)                      |   |                    | 34.10          |                |                |                |             |             |             |           |              |
| reach 3 (south)               | 258000                                      | 1425.00            | 58.66          | 70.14          | 61.86          | 70.20          | 0.000121    | 1.87        | 760.00      | 89.08     | 0.1          |
| reach 3 (south)               | 258000                                      | 2109.00            | 58.66          | 71.04          | -              |                |             |             |             |           |              |
| reach 3 (south)               | 258000                                      | 2978.00            | 58.66          | 72.43          |                |                |             |             |             |           |              |
| reach 3 (south)               | 258000                                      | 5843.00            | 58.66          | 74.20          |                |                |             |             |             |           |              |
|                               | 20000                                       |                    |                |                | 1              |                |             |             |             |           |              |
| reach 3 (south)               | 258681                                      | 1425.00            | 58.71          | 69.96          | 62.02          | 70.02          | 0.000143    | 1.97        | 724.6       | 90.38     | 0.1          |
| reach 3 (south)               | 258681                                      | 2109.00            | 58.71          | 70.73          |                |                | <del></del> |             |             |           |              |
| reach 3 (south)               | 256681                                      | 2978.00            | 58.71          | 72.07          |                |                |             |             |             |           | 0.1          |
| reach 3 (south)               | 256681                                      | 5843.00            | 58,71          | 74.04          |                |                |             | <del></del> |             |           |              |

HFC-RAS Plan: NM Rev Fx (Continued)
Reach River Sta Q Total Min Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (ft) (11) (ft/ft) (ft/s) (sq ft) (**n**) reach 3 (south) 256121 1425 00 58.27 69.95 60.62 69 97 0.000038 1.12 1274.05 138.12 0.06 reach 3 (south) 258121 2109.00 58.27 70.72 61.20 70.76 0.000065 1.53 1381.33 141.56 0.09 2978.00 58.27 72.01 reach 3 (south) 256121 61.86 72.07 0.000155 1.85 1609.00 2479.74 0.13 74.02 5843.00 58.27 reach 3 (south) 256121 63.61 74.02 0.000039 0.99 12539.39 3684.17 0.06 255591 58.07 1425.00 69.88 61.50 reach 3 (south) 69.93 0.000135 1.71 833.95 124.27 0.12 reach 3 (south) 255591 2109.00 58.07 70.64 62.36 70.70 0.000183 2.06 1414.54 2983.22 0.14 2978.00 58.07 71.91 2.06 reach 3 (south) 255591 63.28 71.97 0.000194 2327.78 3395.88 0.14 reach 3 (south) 255591 5843.00 58.07 74.01 65.67 74.01 0.000018 0.66 17321.26 3508.17 0.04 254845 1425.00 58.07 69.79 61.29 69.84 reach 3 (south) 0.000106 1.75 812.21 96.43 0.11 reach 3 (south) 254845 2109.00 58.07 70.57 62.12 70.59 0.000106 1.18 3862.23 4053.55 0.10 reach 3 (south) 254845 2978.00 58.07 71.89 63.03 71.89 0.000051 0.85 6651.01 4238.62 0.07 reach 3 (south) 254845 5843.00 58.07 74.00 65.42 74.00 0.000010 0.47 23260.32 4329.93 0.03 69.78 254765 1425.00 58.07 61.29 69.83 0.000107 1.76 811.38 96.39 0.11 reach 3 (south) reach 3 (south) 254765 2109.00 58.07 70.56 62.12 70.57 0.000108 1.19 3834.51 4052.88 0.10 reach 3 (south) 254765 2978.00 58.07 71.88 63.03 71.89 0.000052 0.85 6632.42 4237.53 0.07 58.07 74.00 reach 3 (south) 254765 5843.00 65.42 74.00 0.000010 0.47 23246.90 4329.89 0.03 1425.00 reach 3 (south) 254000 58.07 69.68 61.35 69.74 0.000136 718.55 1.98 83.82 0.12 reach 3 (south) 254000 2109.00 58.07 70.54 62.24 70.54 0.000018 0.65 8662.17 4113 44 0.04 71.86 reach 3 (south) 254000 2978.00 58.07 63.21 71.86 0.000012 0.52 12870 13 4244 76 0.03reach 3 (south) 254000 5843.00 58.07 73.99 65.75 73.99 0.000011 0.60 19805,86 4274.18 0.04 reach 3 (south) 252000 1425.00 58.08 69.37 61.62 69.43 0.000169 2.11 675.96 86.09 0.13 252000 2109.00 58.08 70.51 62.58 70.51 0.000021 0.64 reach 3 (south) 8227.39 5955.35 0.04 2978.00 58.08 71.84 63.57 reach 3 (south) 252000 71.85 0.000012 0.55 12192.58 5964 52 0.04 reach 3 (south) 252000 5843.00 58.08 73.96 66.14 73.97 0.000013 0.64 18487.35 5975.41 0.04 250860 1425.00 57.32 69,17 60.70 69.21 0.000208 1.64 867.72 190.92 0.14 reach 3 (south) reach 3 (south) 2109.00 57.32 70.47 61,62 70.48 0.000040 0.78 4940.71 4955.38 0.06 57.32 2978.00 71.83 250860 62.60 71.83 0.000027 6981.10 4960.71 reach 3 (south) 0.76 0.05 reach 3 (south) 250860 5843.00 57.32 73.94 65.15 73.95 0.000033 0.95 10192.95 4981.55 0.06 reach 3 (south) 250000 1491.00 57.29 69.07 60.15 69.11 0.000076 1.53 974.61 110.80 0.09 reach 3 (south) 2247.00 57.29 250000 70.44 60.99 70.45 0.000053 0.90 5041.45 4998.80 0.07 3218.00 57.29 71.81 61.92 71.81 0.000031 0.78 7868.90 reach 3 (south) 250000 5055.11 0.06 57.29 73.93 73.93 30167,74 reach 3 (south) 250000 6480.00 64.31 0.000006 0.41 5097.39 0.03 reach 3 (south) 248746 1491 00 57.29 68.92 60.69 68.98 0.000140 1.96 759.33 93.34 0.12 248746 2247.00 57.29 70.31 61.67 70.35 0.000220 1.74 2052.75 3902.57 reach 3 (south) 0.14 reach 3 (south) 248746 3218.00 57.29 71.73 62.72 71.76 0.000127 1.56 3388.75 3914.81 0.11 57.29 73.92 0.000012 6480.00 65.44 73.93 0.59 21961.06 248746 3932.69 0.04 reach 3 (south) 60.69 248619 57.29 68 89 0.000141 1.97 756 31 reach 3 (south) 1491.00 68 95 93 19 0.12 248519 2247.00 57.29 70 27 61.67 70.31 0.000235 1.75 2010.22 3902,19 0.15 reach 3 (south) 3218.00 57.29 71.71 71.74 0.000130 1.55 reach 3 (south) 248519 62.72 3366.07 3914.60 0.11 248519 6480.00 57.29 73.91 65.44 73.92 0.000012 0.59 21924.09 3932.61 0.04 reach 3 (south) reach 3 (south) 248000 1491.00 57.30 68.81 61.10 68.88 0.000165 2.10 709.89 89.64 0.13 57.30 0.000056 4753.11 reach 3 (south) 248000 2247.00 70.24 62.08 70.25 1.22 3879.46 0.08 reach 3 (south) 248000 3218.00 57.30 71.70 63.12 71.70 0.000034 0.96 7611.33 3962.09 0.06 6480.00 57.30 73.90 65.83 73.91 0.000013 0.65 22104.27 4016.43 reach 3 (south) 248000 0.04 reach 3 (south) 247476 1491.00 57.30 68.46 64.89 68.66 0.001712 3.64 410.03 118.42 0.34 247478 57.30 67.20 70.22 0.000060 3896.50 reach 3 (south) 2247.00 70.22 0.76 4832.71 0.07 7574.62 reach 3 (south) 247476 3218.00 57.30 71.68 67.80 71.69 0.000036 0.72 4064.07 0.05reach 3 (south) 247476 6480.00 57.30 73.90 69.60 73.90 0.000018 0.63 20468.70 4202.09 0.04 57.30 64.86 68.54 reach 3 (south) 247400 1491.00 68.35 0.001602 3.46 430.79 129.12 0.33 57.30 70.21 67.07 70.22 0.000060 0.77 4819.49 3887.99 247400 2247.00 0.07 reach 3 (south) 247400 3218.00 57.30 71.68 67,69 71.69 0.000036 7552.86 4056.01 reach 3 (south) 0.72 0.05 each 3 (south) 247400 6480.00 57.30 73.89 69.35 73.89 0.000018 0.63 20395.58 4194.11 0.04 1491.00 57.05 67.88 60.43 67.95 0.000175 2.11 706.87 93.08 0.13 reach 3 (south) 246000 246000 2247.00 57.05 70.09 61.40 70.12 0.000084 1.52 2899.81 3497.82 0.09 reach 3 (south) 1.43 3218.00 57.05 71.60 62.43 71.62 0.000068 4265.00 3550.64 0.09 reach 3 (south) 246000 0.000015 3566.11 reach 3 (south) 246000 6480.00 57.05 73.86 65.09 73.86 0.77 19653.10 0.04 244000 1491.00 57.05 67.32 61.20 67.45 0.000375 2.85 522.82 77.06 0.19 reach 3 (south) 57.05 0.000361 87,69 reach 3 (south) 244000 2247.00 69.64 62.30 69.80 3.15 713.88 0.19

244000

reach 3 (south)

3218.00

57.05

71.40

71.44

0.000120

1.96

3535.11

5915,13

| Reach  | River Sta  | Ex (Continu<br>Q Total | Min Ch El      | W.S. Elev | Crit W.S. | E.G. Elev      | E.G. Slope           | Vel Chni    | Flow Area | Top Width | Froude # Chi       |
|--|--|------------------------|----------------|-----------|-----------|----------------|----------------------|-------------|-----------|-----------|--------------------|
|  |  | (cfs)                  | (ft)           | (ft)      | (ft)      | (ft)           | (ft/ft)              | (fl/s)      | (sq ft)   | (m)       | Jillander I (1919) |
| reach 3 (south)  | 244000   | 6480.00                | 57.05          | 73.83     | 66.42     | 73.83          | 0.000007             | 0.42        | 31924.09  |           | 0.03               |
|  | 321 12   |                        |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 242500   | 1491.00                | 56.61          | 66.77     | 60.83     | 66.90          | 0.000362             | 2.85        | 523.78    | 75.14     | 0.19               |
| reach 3 (south)  | 242500   | 2247.00                | 56.61          | 69.11     | 61.85     | 69.26          | 0.000352             | 3.16        | 710.56    |           | 0.19               |
| reach 3 (south)  | 242500   | 3218.00                | 56.61          | 70.92     | 62.94     | 71.12          | 0.000398             | 3.63        | 1121.14   |           | 0.21               |
| reach 3 (south)  | 242500   | 6480.00                | 56.61          | 73.80     | 65.79     | 73.81          | 0.000043             | 1.28        | 14287.53  |           | 0.07               |
|  |  |                        |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 241505   | 1491.00                | 56.61          | 66.44     | 60.16     | 66.55          | 0.000325             | 2.75        | 542.66    | 75.19     | 0.18               |
| reach 3 (south)  | 241505   | 2247.00                | 56.61          | 68.78     | 61.17     | 68.93          | 0.000325             | 3.08        | 729.75    |           | 0.18               |
| reach 3 (south)  | 241506   | 3218.00                | 56.61          | 70.52     | 62.27     | 70.73          | 0.000393             | 3.64        | 883.67    | 91,74     | 0.21               |
| reach 3 (south)  | 241505   | 6480.00                | 56.61          | 73.14     | 65.16     | 73.65          | 0.000799             | 5.69        | 1138.07   | 845.00    | 0.30               |
| Contract Country of the Contract of the Contra | 7. <b>22</b> C   |                        |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 240950   | 1491.00                | 56.61          | 66.25     | 60.33     | 66.37          | 0.000350             | 2.76        | 540.46    | 79.77     | 0.19               |
| reach 3 (south)  | 240950   | 2247.00                | 56.61          | 68.60     | 61.33     | 68.74          | 0.000333             | 3.03        | 741.01    | 90.96     | 0.19               |
| reach 3 (south)  | 240950   | 3218.00                | 56.61          | 70.31     | 62.41     | 70.51          | 0.000396             | 3.56        | 903.42    |           | 0.21               |
| reacht 3 (south)   | 240960   | 6480.00                | 56.61          | 72.70     | 65,18     | 73.19          | 0.000822             | 5.62        | 1153.00   |           | 0.31               |
| was in the second second   | Mary Mary  |                        |                |           |           |                |                      |             | 1.00.00   | 30 1.10   |                    |
| reach 3 (south)  | 240919   | 1491.00                | 56.61          | 66.24     | 60.33     | 66.36          | 0.000352             | 2.76        | 539.55    | 79.71     | 0.19               |
| reach 3 (south)  | 240919   | 2247.00                | 56.61          | 68.59     | 61.33     | 68.73          | 0.000334             | 3.04        | 740.02    |           | 0.19               |
| reach 3 (south)  | 240919   | 3218.00                | 56.61          | 70.30     | 62.41     | 70.49          | 0.000397             | 3.57        | 902.14    |           | 0.21               |
| reach 3 (south)  | 240919**   | 6480.00                | 56.61          | 72.67     | 65.18     | 73.17          | 0.000828             | 5.64        | 1149.74   |           | 0.31               |
| This programme   | 37 W. Carlo L. P. Sales  |                        | 30,01          |           |           | 70.17          |                      | J           |           | 3,00.00   | 0.51               |
| reach 3 (south)  | 240000   | 1491.00                | 55.47          | 66.05     | 58.95     | 66.12          | 0.000177             | 2,14        | 696,69    | 89.77     | 0.14               |
| reach 3 (south)  | 240000   | 2247.00                | 55.47          | 68.40     | 59.81     | 68.49          | 0.000171<br>0.000184 | 2.45        | 918.97    |           | 0.14               |
| reach 3 (south)  | 240000   | 3218.00                | 55.47          | 70.07     | 60.78     | 70.20          | 0.000134             | 2.95        | 1089.94   |           | 0.18               |
| reach 3 (south)  | 240000   | 6480.00                | 55.47          | 72.14     | 63.31     | 72.51          | 0.000254             | 4.92        | 1318.22   |           | 0.16               |
| 1 1/2-16/19 (1941.141)   |  |                        | 30.41          | 72.14     | 30.01     | 72.51          | 3.00000              | 7.02        | 1310.22   |           | 0.20               |
| reach 3 (south)  | 239550   | 1491.00                | 55.23          | 65.97     | 58.75     | 66.04          | 0.000180             | 2.16        | 691.45    | 89,70     | 0.14               |
| reach 3 (south)  | 230550   | 2247.00                | 55.23          | 68.32     |           | 68.41          | 0.000188             | 2.46        | 914.16    |           |                    |
| reach 3 (south)  | 239550   | 3218.00                | 55.23          | 69.96     | 60.67     | 70.09          | 0.000240             | 2.97        | 1084.23   |           | 0.16               |
| reach 3 (south)  | 239650   | 6480.00                | 55.23          | 71.86     | 63.26     | 72.25          | 0.000595             |             | 1296.25   |           |                    |
| and the second second  | 8.15. J.S.   | 0.00.00                |                | 7         |           | - /2.23        | 0.00000              | 5.55        | 1200.20   | 110.55    |                    |
| reach 3 (south)  | 239468   | 1491.00                | 55.23          | 65.95     | 58.76     | 66.02          | 0.000181             | 2.16        | 690.08    | 89,64     | 0.14               |
| reach 3 (south)  | 239468   | 2247.00                | 55.23          | 68.30     |           | 68.39          | 0.000189             |             | 912.58    |           | 0.14               |
| reach 3 (south)  | 239468   | 3218.00                | 55.23          | 69.94     | 60.66     | 70.07          | 0.000189             |             | 1082.03   |           |                    |
| reach 3 (south)  | 239468   | 6480.00                | 55.23          | 71.81     | 63.26     | 72.20          | 0.000603             |             | 1290.12   |           |                    |
| Called Strategy and Application  | 200-00   | 0400.00                | 35.25          | 71.01     | - 00.20   | 12.20          | 0.00000              | 3.02        | 1250.12   | 110.10    | 0.20               |
| reach 3 (south)  | 238000   | 1491.00                | 54.74          | 65.70     | 58.30     | 65.77          | 0.000166             | 2.12        | 704.24    | 87.71     | 0.13               |
| reach 3 (south)  | 238000   | 2247.00                | 54.74          | 68.03     | 59.22     | 68.12          | 0.000178             |             |           |           | 0.14               |
| reach 3 (south)  | 238000   | 3218.00                | 54.74          | 69.58     | 60.17     | 69.72          | 0.000178             | 3.00        |           |           |                    |
| reach 3 (south)  | 238000   | 6480.00                | 54.74          | 71.63     | 62.77     | 71.68          |                      | 2.43        |           |           |                    |
| 1-200-2001   | 1452 - 101   | 0480.00                | 34.74          | 71.03     | 02.17     | 71.00          | 0.000100             | 2.43        | 7047.71   | 2502.24   | 0.14               |
|  | 237266   | 1491.00                | 54,61          | 65.59     | 57.95     | 65.65          | 0.000161             | 2.10        | 709.32    | 86.97     | 0.13               |
| reach 3 (south)  |  | 2247.00                | 54.61          | 67.91     | 58.87     | 68.00          |                      |             |           |           |                    |
| reach 3 (south)  | 237265   | 3218.00                | 54.61          | 69.42     | 59.88     | 69.56          |                      |             | 1072.58   |           | 0.16               |
| reach 3 (south)  |  | 6480.00                | 54.61          | 71.60     |           | 71.61          | 0.000242             |             |           |           |                    |
| reach 3 (south)  | 237265   | 6480.00                | 34.01          | 71,60     | 62.52     | 71.61          | 0.000080             | 1.29        | 10977.4   | 2900.20   | 0.00               |
| - 5275 4975 6920   | 000000   | 1401.00                | 54.53          | 65.49     | 57.84     | 65.56          | 0.000146             | 100         | 740 50    | 93.35     | 0.12               |
| reach 3 (south)  | 238820   | 1491.00                | 54.53<br>54.53 |           |           |                |                      | <del></del> |           |           |                    |
| reach 3 (south)  | 238820   | 2247.00                |                |           |           | 67.88          |                      |             |           |           |                    |
| reach 3 (south)  | 236620   | 3218.00                | 54.53<br>54.53 |           | 59.68     | 69.40<br>71.58 |                      |             |           |           |                    |
| reach 3 (south)  | 2002   | 6480.00                | 34.53          | 71.57     | 02.23     | /1,58          | 0.00039              | 1.21        | 11047.0   | 2257.00   | 3.07               |
|  |  | 1491.00                | E4 2 4         | CE 20     | 67.04     | DE 45          | 0.000170             | 345         | 700.0     | 4 88.09   | 0.13               |
| reach 3 (south)  | 230000   |                        |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 236000   | 2247.00<br>3218.00     |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  |  |                        |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 238000   | 6480.00                | 04.54          | 71.54     | 02.4/     | /1.50          | 0.0008/              | 1.61        | 0322.80   | 2213.50   | U.10               |
|  | THE STATE OF THE S | 4:0: 00                |                | 05.00     |           | 05.00          | 0.00000              |             | 007.00    |           |                    |
| reach 3 (south)  | 235490   | 1491.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 235490   | 2247.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 235490   | 3218.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 235490   | 6480.00                | 54.49          | 71.44     | 62.99     | 71.48          | 0.000313             | 2,12        | 4753.2    | 8 1464.33 | 0.17               |
|  |  |                        |                |           |           |                | 0.5005               |             |           | 0 015     |                    |
| reach 3 (south)  | 235442   | 1491.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 235442   | 2247.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 235442   | 3218.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 235442   | 6480.00                | 54.49          | 71.42     | 62.99     | 71.46          | 0.000310             | 2.23        | 4724.9    | 2 1454.61 | 0.1                |
|  |  |                        |                |           | <u> </u>  | <del> </del>   |                      |             |           | ļ         | <del> </del>       |
| reach 3 (south)  | 234280   | 1491.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 234280   | 2247.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 234280   | 3218.00                |                |           |           |                |                      |             |           |           |                    |
| reach 3 (south)  | 234280   | 6480.00                | 53.37          | 71.11     | 60.07     | 71.16          | 0.000222             | 2.13        | 5724.0    | 2 2396,10 | 0.1                |
|  | 1.00   | -                      |                |           |           |                |                      |             |           |           | -                  |
| reach 2  | 157900   | 40.00                  |                |           |           |                |                      |             |           |           |                    |
| reach 2  | 157900   | 100.00                 | 90.87          | 92.66     | 91.84     | 92.77          | 0.002309             | 9 2.65      | 5) 37.7   | 4 24.6    | 6 0.3              |

HEC-RAS Plan: NM Rev Ex (Continued)
Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chri Flow Area Top Width Froude # Chi (cfs) (n) (ft) (ft) (fivit) (ft/s) (sq ft) (ft) (ft) reach 2 157900 95.40 188 00 90.87 92.32 95.44 0.000289 1.56 120.39 35.69 0.15 reach 2 157900 515.00 90.87 97.21 93.55 97.32 0.000598 2.69 191.50 42.97 0.22 reach 2 157788 40.00 90.87 91.42 91.34 91.59 0.014955 11.94 3.35 22.67 0.81 reach 2 157788 100.00 90.87 92.32 0.003557 91.74 92.45 2.98 33.55 25 31 0.46 reach 2 157788 188.00 90.87 95 38 92.18 95,41 0.000255 1.51 124.54 34.56 0.14 reach 2 157788 515.00 90.87 97.15 93.35 97.26 0.000589 2.67 192.68 42.38 0.22 reach 2 157777 Inline Welr reach 2 157707 88.33 89.90 89.21 40.00 89.97 0.002107 2.10 19.02 16.29 0.34 reach 2 157707 100.00 88.33 92.31 89.77 92.34 0.000331 1.43 70.04 26.04 0.15 each 2 157707 188.00 88.33 95.37 95.39 90.36 0.000108 1.12 168.27 38.00 0.09 reach 2 157707 515.00 88.33 97.14 91.83 97.22 0.000300 2.13 241.70 44.87 0.16 reach 2 157442 40.00 87.38 89 67 88 30 89.70 0.000557 18 33 1.34 29 87 0.18 157442 reach 2 100.00 87.38 92.26 88 88 92 28 0.000159 1.10 91.08 28.84 0.11 reach 2 157442 188.00 87.38 95,36 89.49 95.37 0.000068 0.94 199.71 0.08 41.36 reach 2 157442 515.00 87.38 97.09 91.01 97.15 0.000209 1.86 277.49 48.25 0.14 reach 2 157290 87.38 89.57 40.00 88.30 89.60 0.000661 17.94 1.42 28.13 0.20 reach 2 157290 100.00 87.38 0.000164 92.23 88.88 92 25 1 11 90.16 28 71 0.11 reach 2 157290 188 00 87.38 95 35 89.49 95.36 0.000068 0.94 199.14 41.31 0.08 reach 2 157290 515.00 87.38 97.05 91.01 97.11 0.000213 1.87 48.09 275.50 0.14 reach 2 156900 40.00 87.38 89.39 88.06 89.4 0.000375 1.10 36.36 22.49 0.15 56900 reach 2 100.00 87.38 92.18 88.52 92.20 0.000090 0.88 113.39 32.71 0.08 reach 2 156900 188.00 87.38 95.32 89.03 95.33 0.000044 44.25 0.80 234.20 0.06 reach 2 156900 515.00 87.38 96.99 90.35 97.04 0.000148 1.64 313.20 50.38 0.12 reach 2 155952 40.00 87.33 88.97 87.94 88.99 0.000534 34.46 26.20 0.18 1.16 reach 2 155952 100.00 87.33 92.12 88.35 92.13 0.000057 0.70 142.09 42.09 0.07 reach 2 155952 87.33 188.00 88.80 95,31 0.000026 301.56 58.14 95.30 0.62 0.05 reach 2 155952 515.00 87.33 96.90 0.000089 66.18 89.97 96.92 1.29 400.72 0.09 reach 2 155848 40.00 87.31 88.91 87.84 88.93 0.000559 1.23 32,50 23.06 0.18 reach 2 155848 100.00 87.31 92.12 88.28 92.13 0.000071 0.81 123.96 33.82 0.07 reach 2 155846 188.00 87.31 95.30 88.76 95.31 0.000036 0.76 246.36 43,17 0.06 reach 2 155846 515.00 87.31 96.88 90.02 96.92 0.000135 1.62 318.27 47.82 0.11 reach 2 155779 40.00 87.31 88.89 87.70 88.90 0.000231 0.82 48.93 33.31 0.12 92.12 0.000032 171.34 reach 2 155779 100.00 87.31 92.11 88.02 0.58 42.65 0.05 reach 2 155779 188.00 87.31 95.29 88.39 95.30 0.000019 0.59 321.11 51.44 0.04 reach 2 155779 515.00 87.31 96.87 89.38 96.90 0.000073 1.27 405.84 55,80 0.08 87.31 mach 2 155896 40.00 88 85 87 78 88 87 0.000436 1.09 36.84 26 04 0.16 reach 2 155696 100.00 87.31 92.09 88.16 92.10 0.000056 0.73 136.06 35.25 0.07 reach 2 188,00 87.31 95.28 88.60 95.29 0.000031 44.43 0.05 155696 0.71 263.09 reach 2 155696 515,00 87.31 96.85 89.76 96.89 0.000119 1.53 336.46 48.95 0.10 reach 2 154900 40.00 86.57 88.64 87.06 88.65 0.000174 0.81 49.30 26.99 0.11 reach 2 154900 100.00 86 57 92.05 87.45 92.06 0.000036 0.63 158.88 37.28 0.05 reach 2 154900 188.00 86.57 95.25 87.90 95.26 0.000023 0.64 293.65 46.94 0.05 86.57 96.81 0.000092 1.40 368.51 51.52 0.09 each 2 154900 515.00 96.78 89.08 153295 88.44 0.000102 0.71 56.05 24.56 0.08 reach 2 40.00 85.60 88.44 86.21 reach 2 153295 100.00 85.60 92.00 86.68 92.01 0.000031 0.61 164.24 36.17 0.05 0.000022 reach 2 153295 188.00 85.60 95 23 87.20 95 23 0.63 298 53 47.19 0.04 each 2 153295 515.00 85.60 96.63 88.55 96.66 0.000093 1.40 367.99 52.05 0.09 88.43 24.52 reach 2 153200 40.00 85.60 88.42 86.21 0.000104 0.72 55.73 0.08 85.60 91.99 86.68 92.00 0.000031 0.61 163.84 36.13 0.05 reach 2 153200 100.00 153200 188.00 85 60 95.23 0.000022 0.63 298.13 47.16 0.04 reach 2 95.22 87.20 reach 2 153200 515.00 85,60 96.61 88.54 96.64 0.000094 1.40 367.01 51.98 0.09 reach 2 152900 40.00 85.22 88.40 85.96 88.41 0.000056 0.56 71.40 28.98 0.06 152900 100.00 85.22 91.98 86.37 91.98 0.000020 0.51 195.42 40.41 0.04 reach 2 0.000015 0.55 342.89 50.85 152900 86.82 95.22 0.04 reach 2 188.00 85.22 95.21 0.000067 55.31 0.08 reach 2 152900 515.00 85.22 96.59 88.03 96.61 1.24 416.09 150900 40.00 84.97 88.32 85.46 88.33 0.000030 0.44 90.50 32 99 0.05 reach 2 91.96 0.43 233.32 45.65 0.03 reach 2 150900 100.00 84.97 91.96 85.85 0.000013

150900

150900

reach 2

reach 2

84.97

84.97

188.00

515.00

95.19

96.48

86.28

87,43

95.20

96.50

0.000010

0.000048

0.47

1.08

399.33

475.60

56.94

61.49

0.03

| Reach                                   | River Sta    | Ex. (Continue<br>Q Total | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev              | E.G. Slope   | Vel Chri     | Flow Area         | Top Width      | Froude # Chi |
|---|--------------|--------------------------|----------------|----------------|----------------|------------------------|--------------|--------------|-------------------|----------------|--------------|
|   |              | (cfs)                    | (ft)           | (ft)           | (ft)           | (ft)                   | (fl/ft)      | (ft/s)       | (sq ft)           | (ft)           |              |
| Contraction of the second               | y he was     |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 150837       | 40.00                    | 84.27          | 88.31          | 85.01          | 88.32                  | 0.000015     | 0.34         | 117.37            | 37.88          | 0.03         |
| reach 2                                 | 150837       | 100.00                   | 84.27          | 91.95          | 85.36          | 91.95                  | 0.000008     | 0.36         | 279.59            | 52.08          | 0.03         |
| reach 2                                 | 150837       | 188.00                   | 84.27          | 95.19          | 85.75          | 95.19                  | 0.000007     | 0.40         | 470.31            | 65.38          | 0.03         |
| reach 2                                 | 150837       | 515.00                   | 84.27          | 96.48          | 86.81          | 96.49                  | 0.000046     | 0.92         | 560.13            | 91.93          | 0.07         |
| reach 2                                 |              | 40.00                    | 04.07          |                | 25.04          | 22.24                  | 5.000045     |              |                   |                |              |
| reach 2                                 | 150569       | 100.00                   | 84.27<br>84.27 | 88.30          | 85.01          | 88.31                  | 0.000015     | 0.34         | 117.01            | 37.84          | 0.03         |
| reach 2                                 | 150569       | 188.00                   | 84.27          | 91.95<br>95.19 | 85.36<br>85.75 | 91.95<br>95.19         |              | 0.36         | 279.39            | 52.07          | 0.03         |
| reach 2                                 | 150569       | 515.00                   | 84.27          | 96.47          | 86.81          | 96.49                  |              | 0.92         | 470.08<br>559.85  | 65.36          |              |
|   | 140.0        | 313.00                   | - 01.27        | 30.47          | 30.01          | 30.48                  | 0.000040     | 0.92         | 339,83            | 91.82          | 0.07         |
| reach 2                                 | 148900       | 40.00                    | 84.27          | 88.28          | 84.79          | 88.28                  | 0.000020     | 0.39         | 102.08            | 32.41          | 0.04         |
| reach 2                                 | 148900       | 100.00                   | 84.27          | 91.94          | 85.20          | 91.94                  | 0.000011     | 0.41         | 244,31            | 45.31          | 0.03         |
| reach 2                                 | 148900       | 188.00                   | 84.27          | 95.18          | 85.67          | 95.18                  | 0.000010     | 0.46         | 409.56            | 56.76          |              |
| reach 2                                 | 148900       | 515.00                   | 84.27          | 96.39          | 86.90          | 96.41                  | 0.000046     | 1.07         | 481.07            | 61.05          |              |
|   | Part Deliver |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 1990         | 40.00                    | 83.76          | 88.25          | 84.95          | 88.25                  | 0.000071     | 0.67         | 59.34             | 20.39          |              |
| reach 2                                 | 147968       | 100.00                   | 83.76          | 91.93          | 85.61          | 91.93                  | 0.000034     | 0.65         | 154.17            | 31.16          |              |
| reach 2                                 |              | 188.00                   | 83.76          | 95.16          | 86.29          | 95.17                  | 0.000027     | 0.69         | 270.99            | 41.27          | 0.05         |
| reach 2                                 | 1000         | 515.00                   | 83.76          | 96.30          | 87.99          | 96.34                  | 0,000130     | 1.61         | 319.98            | 45,39          | 0.11         |
| reach 2                                 | 147814       | 40.00                    | 92.70          |                | 04.77          | 00.54                  | 0.000010     |              |                   |                |              |
| reach 2                                 | 147814       | 100.00                   | 83.76<br>83.76 | 88.24<br>91.91 | 84.77<br>85.35 | 88.24<br>91.92         | 0.000043     | 0.54         | 73.50             | 24.63          |              |
| reach 2                                 | 147814       | 188.00                   | 83.76          | 95.15          | 85.35          | 91.92                  | 0.000021     | 0.53<br>0.58 | 187.18<br>325.37  | 37.17<br>48.14 |              |
| reach 2                                 | 147814       | 515.00                   | 83.76          | 96.29          | 87.51          | 96.32                  | 0.000017     | 1.35         | 325.37            | 48.14<br>51.99 |              |
| - 1540 A 7-100                          | e diament    | 510.00                   | 33.70          | 50:20          | 07.01          | 50.02                  | 0.00000      | - 1.50       | 302.22            | 31,88          | 0.08         |
| reach 2                                 | 146900       | 40.00                    | 83.26          | 88.22          | 84.07          | 88.22                  | 0.000018     | 0.39         | 103.26            | 30.02          | 0.04         |
| reach 2                                 | 146900       | 100.00                   | 83.26          | 91.90          | 84.58          | 91.91                  | 0.000011     | 0.42         | 237.64            | 42.95          |              |
| reach 2                                 | 146900       | 188.00                   | 83.26          | 95.14          | 85.14          | 95.15                  | 0.000010     | 0.48         | 395.27            | 54.33          |              |
| reach 2                                 | 146900       | 515.00                   | 83.26          | 96.23          | 86.55          | 96.25                  | 0.000052     | 1.13         | 456.37            | 58.14          | 0.07         |
| ं लेडेस, हार उन होते.                   |              |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 145333       | 40.00                    | 83,11          | 88.20          | 83.73          | 88.21                  | 0.000012     | 0.33         | 119.78            | 32.30          | 0.03         |
| reach 2                                 | 145333       | 100.00                   | 83.11          | 91.89          | 84.20          | 91.89                  |              | 0.38         | 262.26            | 45.26          |              |
| reach 2                                 | 145333       | 188.00                   | 83.11          | 95.13          | 84.73          | 95.14                  | 0.000008     | 0.44         | 429.38            | 57.84          |              |
| reach 2                                 | 145333       | 515.00                   | 83.11          | 96.16          | 86.08          | 96.17                  | 0.000044     | 1.05         | 490.54            | 61.67          | 0.07         |
| and the second                          | 145285       | 40.00                    | 92.44          | 00.00          | 92.72          | 20.20                  | 0.000040     | 0.22         | 440.00            | 00.00          |              |
| reach 2                                 | 200          | 100.00                   | 83.11<br>83.11 | 88.20<br>91.89 | 83.73<br>84.20 | 88.20<br>91.89         |              | 0.33         |                   | 32.29<br>45.25 |              |
| reach 2                                 |              | 188.00                   | 83.11          | 95.13          | 84.73          | 95.13                  |              | 0.44         | 429.26            | 57.83          |              |
| reach/2                                 | 145285       | 515.00                   | 83.11          | 96.16          | 86.08          | 96.17                  |              | 0.87         | 1054.27           | 2238.51        |              |
| 114.4                                   | E EMOSULES.  |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 144900       | 40.00                    | 83.06          | 88.20          | 83.56          | 88.20                  | 0.000007     | 0.27         | 149.86            | 37.64          | 0.0          |
| reach 2                                 | 144900       | 100.00                   | 83.06          | 91.89          | 83.95          | 91.89                  | 0.000006     | 0.32         | 310.90            | 49.67          | 0.00         |
| reach 2                                 | 144900       | 188.00                   | 83.06          | 95.13          | 84.39          | 95.13                  | 0.000006     | 0.38         |                   | 502.99         | 0.02         |
| reach 2                                 | 144900       | 515.00                   | 83.06          | 96.15          | 85.56          | 96.16                  | 0.000019     | 0.73         | 1732.43           | 2334.90        | 0.0          |
| - 1981 militaria (m. 198                |              |                          |                |                |                |                        |              | <u> </u>     |                   |                |              |
| reach 2                                 | 144259       | 482.00                   | 78.00          | 88.13          | 80.37          | 88.16                  |              | 1.34         |                   |                |              |
| reach 2                                 | 144259       | 1051,00<br>1858.00       | 78.00<br>78.00 | 91.79<br>94.98 | 81.85          | 91.85                  |              | 1.88         |                   | 61.86          |              |
| reach 2                                 | 144259       | 4804.00                  | 78.00          | 95,35          | 83.44<br>87.38 | 95. <b>08</b><br>95.92 |              | 2.51<br>6.15 | 779.87<br>1415.18 |                |              |
| 100 m 100 m 100 m                       | des lacione  | 400.00                   | 70.00          | 50,50          | 07.30          | 30.82                  | 0.00002      | 0.13         | 1413.10           | 1512.20        | 0.20         |
| reach 2                                 | 144227       | Culvert                  |                |                |                |                        | <del> </del> |              |                   |                | <del> </del> |
| Western Const                           |              |                          |                |                |                |                        |              | <del> </del> |                   |                |              |
| reach 2                                 | 144198       | 482.00                   | 78.00          | 88.02          | 80.37          | 88.05                  | 0.000064     | 1.36         | 355.36            | 49.61          | 0.00         |
| reach 2                                 | 144196       | 1051.00                  | 78.00          | 91.21          | 81.85          | 91.27                  |              |              |                   | 59.69          |              |
| reach 2                                 | 144198       | 1858.00                  | 78.00          | 93.20          | 83.44          | 93.33                  | 0.000159     | 2.91         | 654.59            | 67.09          | 0.19         |
| reach 2                                 | 144198       | 4804.00                  | 78.00          | 95.37          | 87.38          | 95,90                  | 0.000537     | 6.02         | 1658.62           | 7701.40        | 0.29         |
| 100000000000000000000000000000000000000 | istri,       |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 143766       | 482.00                   | 80.00          | 87.94          | 83,00          |                        |              |              |                   |                |              |
| reach 2                                 | 143766       | 1051.00                  | 80.00          | 91.10          |                |                        |              |              |                   |                |              |
| reach 2                                 | 143786       | 1858.00<br>4804.00       | 80.00<br>80.00 | 93.03          |                | 93.23                  |              |              |                   |                |              |
| reach 2                                 | 143/05       | 4004.00                  | 60.00          | 95.43          | 89.71          | 95.55                  | 0.000255     | 3.89         | 8006.40           | 0904.70        | 0.20         |
| reach 2                                 | 142844       | 482.00                   | 80.00          | 87.79          | 82.81          | 87.84                  | 0.000163     | 1.83         | 262.86            | 49,58          | 0.14         |
| reach 2                                 | 142844       | 1051.00                  | 80.00          | 90.94          |                |                        |              |              |                   |                |              |
| reach 2                                 | 142844       | 1858.00                  | 80.00          | 92.79          |                |                        |              |              |                   |                |              |
| reach 2                                 | 142844       | 4804.00                  | 80.00          | 95.33          |                | 95.38                  |              |              |                   |                |              |
| elejona e e z                           |              |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 142821       | Bridge                   |                |                |                |                        |              |              | I                 |                |              |
|   | h for a      |                          |                |                |                |                        |              |              |                   |                |              |
| reach 2                                 | 142771       | 482.00                   | 80.00          | 87.76          | 82.51          | 87.81                  | 0.000161     | 1.84         |                   |                | 0.14         |
| reach 2                                 | 142771       | 1051.00                  | 80.00          | 90.91          |                |                        |              |              |                   |                |              |
| reach 2                                 | 142771       | 1858.00                  | 80.00          | 92.75          |                | +                      |              |              |                   |                |              |
| reach 2                                 | 142771       | 4804.00                  | 80.00          | 95,18          | 89.25          | 95.30                  | 0.000237     | 3.76         | 8203.60           | 8923.78        | 0.1          |

| Reach                                 | Plan: NM Rev<br>River Sta | Ex (Continu<br>Q Total | ied)<br>Min Ch El | W.S. Elev      | Crit W.S. | E.G. Elev | E.G. Stope  | Vel Chril    | Flow Area    | Top Width | Froude # Chl |
|---------------------------------------|---------------------------|------------------------|-------------------|----------------|-----------|-----------|-------------|--------------|--------------|-----------|--------------|
|                                       |                           | (cfs)                  | (ft)              | (ft)           | (ft) ·    | (n)       | (ft/ft)     | (ft/s)       | (sq ft)      | (ft)      |              |
| W                                     |                           |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 141205                    | 482.00                 | 80.00             | 87.53          | 82.36     | 87.58     |             | 1.77         | 272.76       | 49.55     | 0.13         |
| reach 2                               | 141205                    | 1051.00                | 80.00             | 90.64          | 83.70     |           | <del></del> | 2.37         | 443.29       | 59.97     | 0.15         |
| reach 2                               | 141205                    | 1858.00                | 80.00             | 92.34          | 85.15     | 92.52     |             | 3,43         | 549.61       | 65.68     | 0.20         |
| reach 2                               | 141205                    | 4804.00                | 80,00             | 94.96          | 88.76     | 95.01     | 0.000124    | 2.73         | 11457.95     | 8885.98   | 0.14         |
| reach 2                               | 140152                    | 492.00                 | 90.00             | 07.05          | 90.60     | 07.40     | 0.000407    |              | 540.00       |           |              |
| reach 2                               | 140152                    | 482.00<br>1051.00      | 80.00             | 87.35          | 82.62     | 87.40     |             | 1.94         | 248.60       | 50.32     | 0.15         |
| reach 2                               | 140152                    | 1858.00                | 80.00             | 90.44          | 84.06     | 90.54     |             | 2.47         | 425.33       | 63.81     | 0.17         |
| reach 2                               | 140152                    | 4804.00                | 80.00             | 92.02<br>94.83 | 85.54     | 92.22     |             | 3.55         | 531.08       | 70.59     | 0.22         |
| (CEACLE                               | 1193152                   | 4604.00                | 80.00             | 94.63          | 89.15     | 94.88     | 0.000131    | 2.72         | 11250.31     | 9009.02   | 0.14         |
| reach 2                               | 140137                    | Bridge                 |                   |                |           |           |             | ļ — — ·      |              |           |              |
|                                       |                           | Diago                  |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 140107                    | 482.00                 | 78.00             | 87.35          | 80.62     | 87.38     | 0.000085    | 1.45         | 331,99       | 54.31     | 0.10         |
| reach 2                               | 140107                    | 1051.00                | 78.00             | 90.44          | 82.15     | 90.51     |             | 2.02         | 519.49       | 66.81     | 0.13         |
| reach 2                               | 140107                    | 1858.00                | 78.00             | 91.90          | 83.72     | 92.04     |             | 3.03         | 620.74       | 72.71     | 0.17         |
| reach 2                               |                           | 4804.00                | 78.00             | 94.80          | 87.47     | 94.83     |             | 2.35         | 11296.26     | 6548.76   | 0.12         |
| Contract of the second                |                           |                        |                   |                |           |           |             |              | 11200.20     | 50.10.10  |              |
| neach 2                               | 138870                    | 482.00                 | 78.00             | 87.25          | 80.28     | 87.29     | 0.000065    | 1.69         | 361.08       | 56.20     | 0.10         |
| reach 2                               | 138870                    | 1051.00                | 78.00             | 90.28          | 81.68     | 90.38     |             | 2.65         | 548.37       | 67.45     | 0.13         |
| reach 2                               | 138870                    | 1858.00                | 78.00             | 91.52          | 83.25     | 91.75     |             | 4.17         | 634.61       | 72.06     | 0.20         |
| reach 2                               | 138870                    | 4804.00                | 78.00             | 94.70          | 87.46     | 94.73     |             | 2.82         | 13700.91     | 8905.81   | 0.12         |
| TESTAL                                |                           |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 137387                    | 482.00                 | 78.00             | 87.15          | 80.28     | 87.20     | 0.000068    | 1,72         | 355.60       | 55.96     | 0.10         |
| reach 2                               | 137387                    | 1051.00                | 78.00             | 90.12          | 81.69     | 90.22     | 0.000115    | 2,69         | 537.79       | 67.04     | 0.14         |
| reach 2                               | 137387                    | 1858.00                | 78.00             | 91.14          | 83.26     | 91.39     | 0.000264    | 4.32         | 608.19       | 70.85     | 0.21         |
| reach 2                               | 137387                    | 4804.00                | 78.00             | 94.27          | 87.47     | 94.51     | 0.000311    | 5.42         | 4575.03      | 8308.73   | 0.24         |
|                                       | sara William Prince       |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 137364                    | 482.00                 | 78.00             | 87.15          | 80.28     | 87.19     | 0.000068    | 1.72         | 355.28       | 55.93     | 0.10         |
| reach 2                               | 137364                    | 1051.00                | 78.00             | 90.11          | 81.69     | 90.22     | 0.000115    | 2.69         | 537.67       | 67.03     | 0.14         |
| reach 2                               | 137364                    | 1858.00                | 78.00             | 91.13          | 83.26     | 91.39     | 0.000265    | 4.33         | 607.87       | 70.83     | 0.21         |
| reach 2                               | 137364                    | 4804.00                | 78.00             | 94.26          | 87.48     | 94.51     | 0.000312    | 5.43         | 4563.84      | 8303.70   | 0.24         |
|                                       |                           |                        |                   |                |           |           |             | l            |              |           |              |
| reach 2                               | 137349                    | Bridge                 |                   |                |           |           |             |              |              |           |              |
| 1477                                  |                           |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 137334                    | 482.00                 | 78.00             | 87.13          | 80.28     | 87.17     |             | 1.72         | 354.31       | 55.87     | 0.10         |
| reach 2                               | 137334                    | 1051.00                | 78.00             | 90.11          | 81.69     | 90.21     |             | 2.70         | 537.29       | 67.01     | 0.14         |
| reech 2                               | 137334                    | 1858.00                | 78.00             | 91.12          | 83.26     | 91.38     |             | 4.33         | 606.89       | 70.78     | 0.21         |
| reach 2                               | 137334                    | 4804.00                | 78.00             | 93.72          | 87.47     | 94.24     | 0.000551    | 7.05         | 2876.99      | 7117.16   | 0.32         |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                           |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 137249                    | 482.00                 | 78,00             | 87.11          | 80.54     | 87.17     | 0.000091    | 1.97         | 321.81       | 53.05     | 0.12         |
|                                       | 137249                    | 1051.00                | 78.00             | 90.07          | 82.09     | 90.19     |             |              |              | 64.54     | 0.16         |
| reach 2<br>reach 2                    | 137249                    | 1858.00<br>4804.00     | 78.00<br>78.00    | 91.01<br>92.13 | 83,79     |           |             |              | 557.81       | 67.93     | 0.24         |
| 104412                                | 13/249                    | 4604.00                | 78.00             | 92.13          | 88.26     | 93.82     | 0.001686    | 11.41        | 809.88       | 3621.48   | 0.54         |
| reach 2                               | 137150                    | 482.00                 | 78.00             | 87.11          | 80.41     | 87.16     | 0.000079    | 1.84         | 335.50       | 53.87     | 0.11         |
| reach 2                               | 137150                    | 1051.00                | 78.00             | 90.06          | 81.88     | 90.17     |             | 2.88         |              | 64.90     |              |
| reach 2                               | 137150                    | 1858.00                | 78.00             | 91.00          | 83.52     | 91.29     | ·           |              |              | 68.37     | 0.23         |
| reach 2                               | 137150                    | 4804.00                | 78.00             | 92.02          | 87.85     | ****      |             | 10.97        | 647.28       | 2234.58   |              |
|                                       | Carlo Walan Alama         | 1001.00                | 70.00             | 02.02          | 07.00     | 20.04     | 0.001333    | 10.51        | 047.20       | 2204.00   | 0.02         |
| reach 2                               | 135957                    | 482 00                 | 78.00             | 87.04          | 80.18     | 87.07     | 0.000062    | 1.63         | 366.26       | 57.19     | 0.10         |
| reach 2                               | 135957                    | 1051.00                | 78.00             | 89.94          | 81.52     |           |             |              | <del></del>  | 67.86     |              |
| reach 2                               | 135957                    | 1858.00                | 78.00             | 90.78          | 83.04     |           |             |              |              |           | 0.19         |
| reach 2                               | 135957                    | 4804.00                | 78.00             |                | 87.09     |           |             |              |              |           |              |
| 365 74                                | A CONTACTA                |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 135841                    | 482.00                 | 78.00             | 87.02          | 80.23     | 87.06     | 0.000067    | 1.69         | 355.41       | 55.85     | 0.10         |
| reach 2                               | 135841                    | 1051.00                | 78.00             | 89.91          | 81.60     | 90.01     | 0.000115    |              |              | 66.36     |              |
| reach 2                               | 135841                    | 1858.00                | 78.00             | 90.71          | 83.15     |           |             |              |              |           | 0.20         |
| reach 2                               | 135841                    | 4804.00                | 78.00             | 91.81          | 87.27     | 92.21     | 0.000586    | 6.67         | 3810.45      | 6047.65   | 0.32         |
| 4.2                                   |                           |                        |                   |                |           |           |             |              |              |           |              |
| reach 2                               | 135233                    | 482.00                 | 78.00             | 86.99          | 80.32     |           |             |              |              |           |              |
| reach 2                               | 135233                    | 1051.00                | 78.00             |                | 81.73     |           |             |              |              |           |              |
| reach 2                               | 135233                    | 1858.00                | 78.00             | 90.68          | 83.13     |           |             |              |              | 3641.48   |              |
| reach 2                               | 135233                    | 4804.00                | 78.00             | 92.01          | 86.96     | 92.02     | 0.000053    | 1.93         | 17280.28     | 9206.37   | 0.09         |
| ļ •                                   |                           | <b>_</b>               |                   |                |           |           |             |              | <u> </u>     |           | <u> </u>     |
| reach 2                               | 134690                    | 482.00                 | 78.00             |                | 80.04     |           |             |              |              |           |              |
| reach 2                               | 134690                    | 1051.00                | 78.00             |                |           |           | <del></del> |              |              |           |              |
| reach 2                               | 134690                    | 1858.00                | 78.00             |                | +         |           |             |              |              |           |              |
| reach 2                               | 134690                    | 4804.00                | 78.00             | 91.99          | 86.09     | 92.00     | 0.000040    | 1,71         | 19102.98     | 9814.01   | 0,08         |
|                                       | 40.00                     |                        |                   |                | i         |           | ļ           | <del> </del> | <del> </del> |           |              |
| reach 2                               | 134647                    | Bridge                 |                   |                |           |           | <del></del> | -            |              | -         |              |
| anal a                                | 404000                    | 400.00                 | 70.00             | 50.6-          |           |           | 0.00045     |              | 0.15.00      |           | -            |
| reach 2                               | 134608                    | 482.00                 | 78.00             |                |           |           |             |              |              |           |              |
| reach 2                               | 134606                    | 1051.00                | 78.00             | 89.73          | 83.30     | 89.81     | 0.000139    | 2.59         | 1323.64      | 1882.37   | 0.15         |

|                              | RiverSta   | Q: Total | Min Ch El | W.S. Elev   | Crit W.S. | E.G. Elev | E.G. Slope | Vei Chni | Flow Area | Top Width | Froude # Cht  |
|------------------------------|--|----------|-----------|-------------|-----------|-----------|------------|----------|-----------|-----------|---------------|
| 13 10 10 10 10               |  | (cfs)    | (ft)      | (ft)        | (ft)      | (ft) ::   | (ft/ft)    | (ft/s)   | (sq ft)   | (ft)/     | - A 4 4 5 1 1 |
| each 2                       | 134606   | 1858.00  | 78.00     | 90.62       | 84.81     | 90.66     | 0.000107   | 2.41     | 5381.87   | 8770.38   | 0.13          |
| each 2                       | 134606   | 4804.00  | 78.00     | 91.98       | 90.76     | 91.98     | 0.000041   | 1.62     | 19783.72  | 9801.71   | 0.08          |
|                              | 2.00   |          |           |             |           |           |            |          |           |           |               |
| each 2                       | 134537   | 482.00   | 78.00     | 86.94       | 80.04     | 86.96     | 0.000046   | 1.33     | 403.38    | 63,64     | 0.08          |
| each 2                       | 134537   | 1051.00  | 78.00     | 89.74       | 81.31     | 89.80     | 0.000072   | 2.03     | 900.38    | 576.61    | 0.11          |
| reach 2                      | 134537   | 1858.00  | 78.00     | 90.58       | 82.63     | 90.64     | 0.000094   | 2.42     | 4452.60   | 8741.38   | 0.12          |
| reach 2                      | 134537   | 4804.00  | 78.00     | 91.97       | 86.09     | 91.98     | 0.000041   | 1.73     | 18864.88  | 9795.55   | 0.08          |
|                              |  | 7007.00  | 70.00     | 31.87       | 00.09     | 91.90     | 0.000041   | 1.73     | 10004.00  | 9190.00   | 0.08          |
| reach 2                      | 132334   | 962.00   | 78.00     | 20.50       | 04.00     | 00.00     | 0.000005   | 204      | 240.74    |           |               |
|                              | distriction of   |          |           | 86.56       | 81.36     | 86.68     | 0.000265   | 2.84     | 349.74    | 58.35     | 0.19          |
| reach 2                      | 132334   | 1985.00  | 78.00     | 89.10       | 83.16     | 89.37     | 0.000384   | 4.21     | 703.52    | 2249.81   | 0.24          |
| reach 2                      | 132334   | 3435.00  | 78.00     | 90.23       | 84.98     | 90.31     | 0.000203   | 3.30     | 6625.34   | 8434.55   | 0.18          |
| reach 2                      | 132334   | 8788.00  | 78.00     | 91.81       | 90.51     | 91.83     | 0.000095   | 2.47     | 21607.26  | 9668.58   | 0.12          |
| 142 14 - 14 30               | A Speries a  |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 131688   | 962.00   | 78.00     | 86.39       | 81.34     | 86.51     | 0.000258   | 2.75     | 360.50    | 62.17     | 0.19          |
| reach 2                      | 131688   | 1985.00  | 78.00     | 89.01       | 83.09     | 89.15     | 0.000236   | 3.27     | 1966,14   | 2856.94   | 0.19          |
| reach 2                      | 131688   | 3435.00  | 78.00     | 90.10       | 84.81     | 90.18     | 0.000187   | 3.13     | 5848.84   | 7586.23   | 0.17          |
| reach 2                      | 131888   | 8788.00  | 78.00     | 91.74       | 89.89     | 91.76     | 0.000111   | 2.66     | 19457.73  | 8710.44   | 0.13          |
| SATURE (*)                   | mit & Week Later and Later   |          |           |             |           |           |            | ,        |           |           |               |
| reach 2                      | 130701   | 962.00   | 78.00     | 86.31       | 80.24     | 86.34     | 0.000092   | 1.66     | 1090.75   | 281.05    | 0.11          |
|                              | 130701   | 1985.00  | 78.00     | 88.94       | 81.50     | 88.98     | 0.000098   | 2.13     | 2249.58   | 1528.71   |               |
|                              | 77222  | 3435.00  | 78.00     | 89.96       |           |           |            |          |           |           | 0.12          |
|                              | The state of the s |          |           |             | 82.88     | 90.01     | 0.000136   | 2.68     | 4800.63   | 3202.29   | 0.15          |
|                              | 130701   | 8788.00  | 78.00     | 91.62       | 86.50     | 91.65     | 0.000124   | 2.83     | 17649.71  | 8475.86   | 0.14          |
|                              | ****   |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 130048   | 962.00   | 78.00     | 86.09       | 81.30     | 86,23     | 0.000316   | 2.98     | 330.86    | 57.47     | 0.20          |
|                              | 130046   | 1985.00  | 78.00     | 88.67       | 83.09     | 88.86     | 0.000318   | 3.73     | 1713.24   | 3364.18   | 0.22          |
| reach 2                      | 130046   | 3435.00  | 78.00     | 89.86       | 84.88     | 89.92     | 0.000162   | 2.88     | 6689.79   | 8126.85   | 0.16          |
| reach 2                      | 130046   | 8788.00  | 78.00     | 91.57       | 89.69     | 91.58     | 0.000067   | 2.05     | 24095.44  | 9357.44   | 0.10          |
| . Tele manage                | (A) P & (B) P (1 - 1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -   |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 128081   | 962,00   | 78.00     | 85.46       | 81.03     | 85.60     | 0.000353   | 2.99     | 325.37    | 228.23    | 0.21          |
| reach 2                      | 128081   | 1985.00  | 78.00     | 88.10       | 82.73     | 88.26     | 0.000295   | 3.48     | 1816.00   | 3248.76   | 0.21          |
| reach 2                      | 128081   | 3435.00  | 78.00     | 89.58       | 84.47     | 89.62     | 0.000145   | 2.71     | 6876.43   | 6754.34   | 0.15          |
| reach 2                      | 128081   | 8788.00  | 78.00     |             |           | 91.48     | 0.000045   | 1.69     |           |           |               |
|                              |  | 0/00,00  | 78.00     | 91.47       | 89.09     | 91.40     | 0.00045    | 1.09     | 27756.66  | 9648.55   | 0.09          |
| المحار الأطال للمخالف المعاد |  |          |           |             |           |           |            |          |           |           |               |
| reach-2                      | 129032   | 962.00   | 78.00     | 85.44       | 81.04     | 85.58     | 0.000358   | 3.01     | 323.71    | 221.01    | 0.22          |
| reach 2                      | 128032   | 1985.00  | 78.00     | 88.09       | 82.72     | 88.24     | 0.000301   | 3.51     | 1780.12   | 3217.16   | 0.21          |
| reach 2                      | 128032   | 3435.00  | 78.00     | 89.57       | 84.47     | 89.62     | 0.000146   | 2.72     | 6863.87   | 6782.86   | 0.15          |
| reach 2                      | 128032   | 8788.00  | 78.00     | 91.46       | 89.09     | 91.47     | 0.000045   | 1.68     | 27794.44  | 9665.02   | 0.09          |
| The French of the said       | - Jan 072-Jan  |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 125984   | 962.00   | 76.00     | 85.15       | 79.67     | 85.26     | 0.000254   | 2.67     | 363.40    | 1381.45   | 0.18          |
|                              | 126984   | 1985.00  | 76.00     |             | 81.51     | 88.01     | 0.000129   | 2.41     | 3283.33   | 4129.46   |               |
| reach 2                      | 126984   | 3435.00  | 76.00     |             | 83.42     | 89.50     | 0.000075   | 2.02     | 8467.31   | 6565.35   | 0.11          |
|                              | 126964   | 8788.00  | 76.00     | 91.43       | 88.13     | 91.43     | 0.000027   | 1.36     | 31773.90  | 9075.80   | 0.07          |
| 10mA12                       | 2 10 2 2 2 2 2 2   | 0700.00  | 70.00     | 31.43       | 00,13     | 31.40     | 0.000021   | 1.30     | 31173.80  | 3073.00   | 0.07          |
|                              | 400F00   | 000.00   | 70.00     | 25.05       | 70.00     | 05.40     | 0.000000   | 2.00     | 202.50    | 60.00     |               |
| reach 2                      | 128599   | 962.00   | 76.00     | 85.05       | 79.66     | 85.16     | 0.000260   | 2.66     | 363.50    | 60.66     | 0.18          |
| reach 2                      | 128599   | 1985.00  | 76.00     |             | 81.48     | 87.92     | 0.000325   | 3.75     | 853.82    | 1092.63   | 0.22          |
| reach 2                      | 126509   | 3435.00  | 76.00     | 89.37       | 83.39     | 89.45     | 0.000174   | 3.07     | 5628.81   | 6464.71   | 0.16          |
| reach 2                      | 126699   | 8788.00  | 76.00     | 91.41       | 89.23     | 91.42     | 0.000054   | 1.92     | 24983.61  | 8899.17   | 0.09          |
|                              | military of the  |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 125586   | 962.00   | 76.00     | 84.74       | 79.66     | 84.86     | 0.000309   | 2.83     | 341.39    | 57.91     | 0.20          |
| reach 2                      | 125566   | 1985.00  | 76.00     | 87.36       | 81.48     | 87.57     | 0.000356   | 3.84     | 983.59    | 1062.33   | 0.23          |
| reach 2                      | 125588   | 3435.00  | 76.00     |             | 83.38     | 89.26     | 0.00000    | 3.25     |           | 4124.19   |               |
| reach 2                      | 125566   | 8788.00  | 76.00     |             | 88.92     | 91.35     |            | 2.54     |           |           |               |
| 100012                       | 12000  | 5, 55.50 | , 5.30    | 5,.52       | 00.02     | 5,,50     | 5.55555    |          |           | 3235.02   | J             |
|                              | 124578   | 962.00   | 76.00     | 84.47       | 70.74     | 94.50     | 0.000245   | 2.73     | 363.48    | 60.77     | 0.18          |
| reach 2                      |  |          |           |             | 79.24     | 84.59     |            |          |           |           |               |
| reach 2                      | 124578   | 1985.00  | 76.00     |             | 81.00     | 87.21     |            |          |           | 71.06     |               |
| reach 2                      | 124578   | 3435.00  |           |             | 82.77     | 88,99     |            | 4.44     |           | 2089.75   |               |
| reach 2                      | 124578   | 8788.00  | 76,00     | 91.02       | 89.11     | 91.17     | 0.000342   | 5.02     | 9279.09   | 5512.17   | 0.24          |
| A STATE OF                   | 1934   |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 124360   | 962.00   | 76.00     | 84.38       | 79.51     | 84.52     | 0.000317   | 3.03     |           |           |               |
| reach 2                      | 124380   | 1985.00  | 76.00     | 86.88       | 81.36     | 87.12     | 0.000391   | 4.16     | 856.78    |           |               |
| reach 2                      | 124360   | 3435.00  | 76.00     | 88.64       | 83.15     | 88.90     | 0.000412   | 4.79     | 2027.73   | 2453.48   | 0.25          |
| reach 2                      | 124360   | 8788.00  |           |             | 88.79     | 91.09     |            | 3.76     |           |           | 0.18          |
|                              | . Library  |          | 1         | 1           |           |           | 1          |          | 1         |           |               |
| reach 2                      | 124036   | 962.00   | 76.00     | 84.28       | 79,38     | 84.42     | 0.000315   | 3.02     | 327.89    | 55.98     | 0.20          |
| reach 2                      | 124036   | 1985.00  |           |             | 81.22     | 86.99     |            |          |           |           |               |
|                              |  |          |           |             |           |           |            |          |           |           |               |
| reach 2                      | 124038   | 3435.00  |           |             |           | 88.76     |            |          |           |           |               |
| reach 2                      | 124036   | 8788.00  | 76.00     | 90.95       | 88.75     | 91.02     | 0.000211   | 3.91     | 12819.64  | 5654.62   | 0.19          |
|                              | 11 - 12 S. S. L. S. L. L.  |          |           | <del></del> |           |           |            |          |           |           |               |
| reach 2                      | 122198   | 962.00   |           |             |           | 83.83     |            |          |           |           |               |
| reach 2                      | 122198   | 1985.00  | 76.00     | 86.21       | 80.67     | 86.35     | 0.000278   | 3.39     | 1583.54   | 991,11    | 0.20          |
| reach 2                      | 122198   | 3435.00  | 76.00     | 88.16       | 82.63     | 88.23     | 0.000169   | 3.02     | 4601.98   | 2081.68   | 0.16          |
| reach 2                      | 122198   | 8788.00  |           |             | 87.29     | 90.67     |            |          |           |           |               |
|                              |  |          | 1         |             |           |           |            |          | 1         | 1         | 1             |
|                              | 120752   | 962.00   | 76.00     | 82.95       | 79.42     | 83,16     | 0.000652   | 3.72     | 260.25    | 52.62     | 0.26          |

HFC-RAS, Plan: NM Rev Fx (Continued)
Reach RiverSta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Top Width E.G. Slope Vel Chni Froude # Chi Flow Area (cfs) (ft) (ft) (ft) **(R)** (ft/ft) (fl/s) (sq ft) (ft) reach 2 120752 1985.00 76.00 85.24 81.24 85.68 0.000825 5.32 392.68 62.68 0.34 120752 3435.00 76.00 87.69 83.02 87.87 0.000374 3037.73 0.24 reach 2 4.31 1839.54 8788.00 reach 2 120752 76.00 90.28 87.94 90.37 0.000254 4.14 8731.15 3162.87 0.21 reach 2 120467 962.00 76.00 82.78 79.23 82.98 0.000613 3.58 269.68 54.50 0.28 120467 reach 2 1985.00 76.00 85 04 80.99 85 44 0.000783 5 14 403.52 64.30 0.33 reach 2 120467 3435.00 76.00 87.39 82.74 87.72 0.000563 5.22 2046.33 1719.70 0.29 reach 2 120467 8788.00 76.00 90.23 88.05 90.30 0.000223 3.89 10676.46 4506.03 0.19 reach 2 119740 962.00 76.00 81,93 79.23 82.22 0.001096 4.28 50.81 224.98 0.36 reach 2 119740 1985.00 76.00 83.90 80.98 84.47 0.001366 6.08 333.32 59.36 0.42 mach 2 119740 3435 00 76.00 86.71 82.74 87.11 0.000741 5.71 1944.89 3098.36 0.33 reach 2 119740 8788.00 76.00 90,17 87.55 90,18 0.000060 2.01 20382.73 7491.48 0.10 reach 2 119730 962.00 72.00 82.05 75.11 0.000087 1.85 559.95 85.60 82.10 0.11 1985.00 119730 72.00 84.11 76.74 0.000169 reach 2 84.25 2.99 792.17 1259.42 0.16 reach 2 119730 3435.00 72.00 86.81 78.35 87.00 0.000195 3.75 1756.36 3268.87 0.18 reach 2 119730 8788.00 72.00 90.16 82.35 90.18 0.000043 2.06 21424.16 7559.13 0.09 118784 962.00 72.00 reach 2 81.98 75.11 82.03 0.000089 1.86 84.30 0.11 118784 1985.00 72.00 84.03 76.74 84.12 0.000132 2.63 1642.26 3170.79 reach 2 0.14 118784 3435.00 72.00 86.79 78.35 5008.58 reach 2 86.84 0.000086 2.49 4469.97 0.12 reach 2 118784 8788 00 72.00 90 14 84.20 90.15 0.000018 1.34 27730.06 5213.15 0.06 reach 2 118761 962.00 70.00 81.98 73.45 82.03 0.000074 1.80 571.27 78.58 0.10 reach 2 118781 1985.00 70.00 84.02 75.48 84.11 0.000121 2.62 1642.12 758.32 0.14 reach 2 118761 3435.00 70.00 86.78 77.48 86.84 0.000090 2.62 4726.93 1900.55 0.12 8788.00 70.00 83.99 90.14 0.000084 12279.11 reach 2 118761 90.09 2.91 2720.20 0.12 reach 2 118735 Culvert reach 2 118709 962.00 70.00 80.96 81.02 0.000111 2.03 493.78 73.22 0.13 1985.00 0.000122 1627.14 118709 70.00 84.00 84.09 2.62 750.45 0.14 reach 2 reach 2 118709 3435.00 70,00 86,77 86.84 0.000091 2.62 4712.55 1898.92 0.12 reach 2 118709 8788.00 70.00 90.09 90.13 0.000085 2.92 12267.99 2716.14 0.12 118635 962.00 72.00 80.94 81.01 0.000130 2.10 476.60 75.70 reach 2 0.14 118635 1985.00 72.00 83,99 84.08 0.000125 2.60 1612.21 668.95 reach 2 0.14 118635 3435.00 72.00 86.76 86.82 0.000087 2.53 4851.78 1950.15 reach 2 0.12 reach 2 118635 8788.00 72.00 90.07 90.12 0.000080 2.81 12490.05 2718.08 0.12 118513 962.00 72.00 80.93 80.99 0.000124 2.08 490.54 100.43 0.13 reach 2 reach 2 118513 1985.00 72.00 83.98 84.07 0.000121 2.57 1628.41 661.54 0.14 118513 3435.00 reach 2 72.00 86.75 86.81 0.000088 2.56 4776.77 1925.50 0.12 118513 8788.00 12352.58 reach 2 72.00 90.06 90.11 0.000082 2.85 2692.14 0.12 reach 2 117690 1120.00 70.00 80.80 73.75 80.90 0.000153 2.59 470.33 66.07 0.15 2355.00 70.00 83.69 75.82 0.000262 4.07 687.63 87.13 0.21 reach 2 117690 83.94 117690 4175.00 70.00 86.13 77.91 86,65 0.000435 5.92 1038.22 1016.27 0.27 reach 2 9850.92 6059.24 reach 2 117690 10250.00 70.00 89.89 83.24 90.02 0.000195 4.62 0.19 reach 2 117193 1120.00 70.00 80.73 73.66 80.83 0.000151 2.58 465.01 67.68 0.15 117193 2355.00 70.00 83.58 75.71 83.83 0.000259 4.03 691.37 88 11 0.20 reach 2 reach 2 117193 4175.00 70,00 86.02 77.76 86,45 0.000385 5.56 1280.70 358.67 0.26 117193 10250.00 70.00 89.14 83.27 89.82 0.000646 8.19 4307.53 3655.54 0.34 reach 2 70.00 74.20 2.48 84.99 0.15 116403 1120.00 80.65 80.74 0.000150 505.04 neach 2 reach 2 116403 2355.00 70.00 83.46 76.04 83.67 0.000241 3.80 870.01 263,18 0.20 116403 4175.00 70.00 85 89 77.98 86.21 0.000316 4 94 1772 66 577.82 0.23reach 2 0.000502 reach 2 116403 10250.00 70.00 88.95 82.86 89.43 7.11 5733.58 3572.68 0.30 2.20 116161 1120.00 70.00 80.63 73.29 80.71 0.000109 579.67 97.55 0.13 mach 2 0.000182 3.40 291.09 116161 2355.00 70.00 75.16 83.61 992.56 0.17 reach 2 83.44 1964.42 reach 2 116161 4175.00 70.00 85.87 77.13 86.12 0.000241 4.42 604.49 0.20 116161 10250.00 70.00 88.88 82.12 89.29 0.000417 6.59 6082.57 3569.03 0.28 each 2 0.13 115322 1120.00 70.00 80.55 74.01 80.61 0.000104 2.17 1139.94 607.93 reach 2 83.44 3510.92 1070.37 0.11 2355.00 70.00 75.78 83,48 0.000075 2.21 reach 2 115322 77.95 0.000078 2.55 7550.37 2935.18 0.12 reach 2 115322 4175.00 70.00 85.91 85.96 115322 10250.00 70.00 89.06 82.27 89.08 0.000051 2.35 20058 50 5894.25 0.10 reach 2 80.56 73.19 80.61 1.96 1154.27 553.34 0.11 reach 2 115218 1120.00 70,00 0.000078 3440.00 0.11 115218 2355.00 70.00 83.44 74.98 83.48 0.000068 2.17 1061.46 reach 2

77.05

reach 2

115218

4175.00

70.00

85.91

85.95

0.000073

2.53

7453.72

2922.61

HFC-RAS Plan: NM Rev Fx (Continued) E.G. Slope Min Ch El W.S. Elev Crit W.S. E.G. Ellev Vel Chnl Flow Area Top Width Froude # Chi (cfs) (ft) **(ft)** (10) (ft/ft) (ft/s) (5Q.ft) (ft) · 115218 70.00 reach 2 10250.00 89.06 82.15 89.08 0.000050 5892 28 0.10 2.38 20099.48 reach 2 115057 1120.00 70.00 80.57 73.09 80.59 0.000042 1 45 2556.96 1260.49 0.08 reach 2 115057 2355.00 70.00 83.45 74.83 83.46 1.29 0.000024 8002.13 2635.63 0.06 reach 2 115057 4175.00 70.00 85 92 76.8 85.93 0.000017 1.21 17188.59 4842 84 0.05 70.00 reach 2 10250.00 115057 89.06 80.91 89.06 0.000015 1.30 33342.05 7337.03 0.05 11484R 1120 00 70.00 mach 2 80.56 72 89 80.57 0.000029 1 15 3583 17 2459.09 0.07 reach 2 114848 2355.00 70.00 83.45 74.60 83.45 0.000012 0.90 10730.14 4711 53 0.05 114848 4175.00 70.00 reach 2 85.92 76.48 85.92 0.000009 0.88 20459.21 0.04 89.06 reach 2 114848 10250.00 70.00 89.06 80.65 0.000011 1.07 37400.36 14594.10 0.04 reach 2 114815 1120.00 70,00 80.55 72.77 80.56 0.000036 1.29 3101.22 2490.32 0.07 march 2 114615 2355 00 70.00 83 44 74 43 R3 45 0.000012 0.89 10927 72 4605 13 0.04 0.000009 8243.88 reach 2 114815 4175.00 70.00 85.91 76.24 85.91 0.86 21008.43 0.04 reach 2 10250.00 70.00 38793.52 114815 89.05 81.02 89.05 0.000010 1.04 13777.24 0.04 114600 Bridge reach 2 114585 1120.00 70.00 80.53 72.77 80.55 0.000037 3070.78 2476.98 0.07 reach 2 1.30 reach 2 114585 2355 00 70.00 83 43 74 43 R3 43 0.000012 0.89 10932 74 4682 27 0.04 reach 2 114585 4175.00 70.00 85.69 76.24 85 80 0.000009 0.86 20996.15 8205.90 0.04 10250.00 70.00 reach 2 114585 89.04 80.98 89.04 0.000010 1.04 38922.55 13759.06 0.04 114500 1120.00 70.00 72.77 1.30 3090.66 80.53 80.54 2475.46 0.07 reach 2 0.000037 114500 2355.00 70.00 0.88 11176.56 4720.19 reach 2 83.42 74.43 83.42 0.000012 0.04 mech 2 114500 4175 00 70.00 RS RR 76 24 85 88 0.000008 0.84 21386 25 8193 25 0.04 reach 2 114500 10250.00 70.00 89.04 80.95 89.04 0.000010 1 02 39623 96 13754.07 0.04 113500 1120.00 70.00 80.44 72.96 80.49 1.90 1492.63 2388.87 reach 2 0.00008 0.11 reach 2 113500 2355.00 70.00 83.40 74.73 83,41 0.000014 0.95 11076,91 4704.43 0.05 4175.00 70.00 76.63 85.87 0.000008 22069.90 9042.66 reach 2 113500 85.87 0.81 0.04 reach 2 113500 10250.00 70.00 89.02 81.70 89.03 0.000010 1.01 41870.76 13668,59 0.04 112500 1120.00 70.00 80.37 72.77 80.42 0.000078 1.88 1040.95 1459.77 0.11 reach 2 70.00 112500 2355.00 83.39 74.42 83.40 0.000021 1.16 9765.32 4711.17 0.06 reach 2 4175.00 70.00 85.67 0.82 23471.39 9047.48 112500 85.86 76.26 0.000008 0.04 reach 2 reach 2 112500 10250.00 70.00 89 01 81 89 89.02 0.000008 0.94 46598.46 13655.35 0.04reach 2 111500 1120 00 70.00 80.30 72.86 80 34 0.000067 172 1671 82 1440 02 0.10 2355.00 70.00 83.37 74.56 83.38 0.000017 1.04 11175,18 4752.26 0.05 reach 2 111500 111500 4175.00 70.00 85.86 76.43 85.86 0.000007 0.78 26068.16 7729.34 0.04 reach 2 111500 10250.00 70.00 81.57 89.00 0.000007 0.87 50950.34 12622.53 0.04 89.00 reach 2 80.07 621.55 mach 2 108789 1120 00 70.00 72.93 80.12 0.000089 1.92 143.91 0.12reach 2 108769 2355.00 70.00 83 24 74.59 83 29 0.000074 2.16 3181.19 1494.17 0.11 reach 2 108769 4175.00 70.00 85.81 76 38 85.82 0.000030 1.56 16336.82 9840 92 0.07 10250.00 70.00 0.000012 1.13 46960.51 14520.20 0.05 each 2 88.98 82.69 88.98 1120.00 70.00 80.04 72.80 80.10 0.000090 1.96 601.31 80.68 0.12 108584 reach 2 769.12 reach 2 108584 2355.00 70.00 83.11 74.44 83.24 0.000140 2.97 1100.09 0.15 76.25 16035.83 9811.38 0.08 mach 2 108564 4175.00 70.00 85.80 85.61 0.000032 1.63 reach 2 108584 10250.00 70.00 88.97 80.54 88.98 0.000012 1.12 47381.85 14508.52 0.05 reach 2 108524 Bridge 1120.00 70.00 80.01 72.80 80.07 0.000091 1.96 598.90 80.75 0.12 108484 reach 2 108484 83.19 1062.47 627.31 2355 00 70.00 83.05 74.44 0.000142 2.99 0.15 mech 2 9756.16 reach 2 108484 4175.00 70.00 85.77 76.25 85.78 0.000033 1.66 15820.83 0.08 reach 2 108484 10250.00 70.00 88.95 80.53 88.95 0.000012 1 12 47357.70 14473.46 0.05 70.00 1.97 598.09 80.71 0.12 reach 2 108424 1120.00 80.00 72.80 80.06 0.00009 2355,00 70.00 83.04 74.45 83.17 0.000143 3.00 1052.97 586.09 0.15 108424 reach 2 15796.03 85.78 9744.01 0.08 reach 2 108424 4175.00 70.00 85.76 76.25 0.000034 1.67 108424 70.00 80.53 88.95 1.12 47435.68 14461.78 0.05 reach 2 10250 00 88 94 0.000012 0.12 108200 1120.00 70,00 79.98 72.76 80.04 0.000093 1 05 590 68 78 62 reach 2 70.00 74.42 83.14 0.000145 3.01 1157.43 915.60 0.15 reach 2 108200 2355.00 83.00 108200 4175.00 70.00 85.74 76.23 85.76 0.000033 1.66 14885.94 9350.32 0.08 reach 2 1.20 43315.35 14346.88 0.05 70.00 80.54 88.94 0.000013 108200 10250.00 88.94 reach 2 70.00 617.12 0.11 72 61 79.95 1.89 80.90 reach 2 107200 1120.00 79.89 0.000084 reach 2 107200 2355.00 70.00 82.88 74.20 82.99 0.000126 2.81 1572.29 1634.47 0.14 4175.00 70.00 75.97 85.72 0.000029 1.55 15740.72 9089.36 0.07 107200 85.71 reach 2

HEC-RAS Plan: NM Rev Fx (Continued) E.G. Slope Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Chnl Flow Area Top Width Froude # Chl Q Total Reach River Sta (cfs) (ft) (11) **(ft)** (ft) (11/11) (ft/s) (sq ft) (ft) reach 2 107200 10250.00 70.00 88.92 80.11 88.92 0.000012 1.13 45584 89 13699.43 0.05 105420 1279.00 70.00 79.72 0.000095 1.98 671.19 90.81 0.12 reach 2 72.84 79.78 105420 70.00 82.70 73.93 0.000091 2.35 2030.28 2222.72 0.12 2215.00 82.78 reach 2 reach 2 105420 3804.00 70.00 85.67 75.41 85,68 0.000017 1.19 16206.87 8959.16 0.05 105420 neach 2 9537.00 70.00 88.90 79.16 88.91 0.000011 1.10 40256 02 13674.25 0.05 105350 1279.00 70.00 79.67 73.08 79.76 0.000137 2.46 572.39 78.99 0.14 reach 2 reach 2 105350 2215.00 70.00 82.64 74.28 82.77 0.000133 2.93 1904.99 1868.71 0.15 70,00 85.67 85,68 1.41 15974.91 9088.56 0.06 reach 2 105350 3804.00 75.90 0.000023 reach 2 105350 9537.00 70.00 88.90 83.00 88.90 0.000012 1.17 41251.13 13666.22 0.05 reach 2 105335 Bridge 105320 1279.00 70.00 79.66 73.08 79.75 0.000137 2.46 571.32 78.93 0.14 reach 2 1640.61 1822.67 105320 70.00 0.000147 0.16 reach 2 2215.00 82.50 74.28 82.64 3.06 reach 2 105320 3804.00 70.00 85.65 75.90 85.66 0.000023 1.42 15820.29 9063.43 0.06 105320 9537.00 70.00 88.88 80.31 88.88 0.000012 1.18 40974.19 13642.14 0.05 reach 2 reach 2 105235 0.14 1279.00 70.00 79.65 73.08 79.74 0.000138 2.47 570.49 78.89 105235 2215.00 70.00 74.28 82.63 0.000148 3.07 1519.34 1638.35 0.16 reach 2 82.49 105235 85.65 75.90 85.66 0.000025 15209.36 8958.34 0.07 reach 2 3804.00 70.00 1.46 13561.20 0.05 reach 2 105235 9537.00 70.00 88.87 80.31 88 88 0.000013 1.21 39766 94 104800 1279.00 70.00 79.58 73.02 79.67 0.000140 2.48 570.21 80.00 0.15 reach 2 3.23 846.36 178.02 0.17 reach 2 104800 2215.00 70.00 82.40 74.25 82.56 0.000165 104800 3804.00 70.00 85.61 75.86 85.64 0.000042 1.92 12029.56 6722.35 0.09 reach 2 0.05 39919.15 9833.11 104800 9537.00 88.87 0.000015 1.31 reach 2 70.00 80.29 88.87 0.14 reach 2 104146 1279.00 70.00 79.50 79.58 0.000126 2 34 602.56 84.88 reach 2 104146 2215.00 70.00 82.31 82.45 0.000146 3.03 867.26 125.28 0.16 8818.18 5780.24 0.11 reach 2 104146 3804.00 70.00 85.55 85.60 0.000062 2.32 1.48 36756.38 9918.13 0.06 9537.00 70.00 88.87 0.000019 104146 88.86 reach 2 reach 2 104116 1279.00 70.00 79.50 79.58 0.000126 2.34 602 23 84.86 0.14 104116 70.00 82.31 82.45 0.000146 3.03 866.70 125.15 0.16 reach 2 2215.00 8806.15 5776.18 0.11 104116 70.00 85.55 85.60 0.000062 2.33 reach 2 3804.00 36702.59 9914.87 0.06 reach 2 104116 9537.00 70.00 88.86 88.86 0.000020 1.49 84.21 0.14 reach 2 103006 1279 00 70.00 79.36 79.45 0.000133 2.38 590.83 103006 2215.00 70.00 82.15 82.29 0.000153 3.07 847.42 120.47 0.16 reach 2 85.53 0.000067 2.40 8401.69 5637.99 0.11 reach 2 103008 3804.00 70.00 85.48 36539.13 0.06 103006 9537.00 70.00 88.84 88.85 0.000020 1.49 9904.98 reach 2 81.12 0.000137 2.42 577.37 0.14 79.44 reach 2 102913 1279.00 70.00 79.35 114.67 0.16 reach 2 102913 2215.00 70.00 82.14 82 29 0.000157 3.11 822.76 0.12 reach 2 102913 3804.00 70.00 85.45 85.52 0.000085 2.71 6114.98 3428 64 0.000033 1.92 29458.25 9041.95 0.08 reach 2 102913 9537.00 70.00 88.83 88.85 0.14 0.000134 2.39 589.28 84.12 102850 1279 00 70.00 79.34 72.84 79.43 reach 2 0.16 0.000154 3.08 845.03 119.88 reach 2 102850 2215.00 70.00 82.13 74.02 82.27 reach 2 102850 3804.00 70.00 85.46 75 58 85.51 0.000068 2.43 8293.27 5600.36 0.11 102850 9537.00 70.00 88.83 79.86 88.84 0.000020 1.50 36422.11 9897.89 0.06 reach 2 reach 2 102835 Bridge 0.000134 2.39 588.17 84.05 0.14 70.00 79.33 79.42 reach 2 102820 1279.00 119.42 0.16 102820 2215.00 70.00 82.12 82.26 0.000155 3.08 843,20 reach 2 3804.00 70.00 85.41 85.47 0.000072 2 49 8003.17 5498 42 0.11 reach 2 102820 reach 2 102820 9537.00 70.00 88.81 88.82 0.000020 1.51 36237.58 9886.69 0.06 0.15 70.00 79.28 79.38 0.000160 2.59 534.25 74.38 102600 reach 2 1279.00 754.45 102.85 0.17 0.000185 3.35 reach 2 102600 2215 00 70.00 82.05 82.22 4070.27 3722.22 0.16 reach 2 102600 3804.00 70.00 85.27 85.42 0.000147 3.53 9537.00 70.00 88.81 0.000041 2.16 27285.12 8999.14 0.09 reach 2 102600 88.79 2,57 541.62 77.98 0.15 70.00 79.11 79.21 0.000161 101500 reach 2 1279.00 82.01 0.000183 3.30 770.84 89.09 0.17 reach 2 101500 2215.00 70.00 81.85 1198.51 0.19 85.21 0.000214 4.20 1851.96 reach 2 101500 3804.00 70.00 84.96 22938 82 8252.42 101500 9537.00 70.00 88.72 88.75 0.000059 2.57 0.11 reach 2 0.000189 2.55 515.71 77 65 0.16 70.00 78.84 78.94 reach 2 100000 1279.00 87.35 0.18 70.00 81.57 81.73 0.000198 3.20 740.37 100000 2215.00 reach 2 0.000232 4.13 1128.07 204.67 0.20 84.88 reach 2 100000 3804.00 70.00 84.62

| Reach           | RiverSta                   | Q Total | Min Ch Ei   | W.S. Elev      | Crit W.S.              | E.G. Elev      | E.G. Slope | Vel Chrit    | Flow Area         | Top Width       | Frouds # Chi |
|-----------------|----------------------------|---------|-------------|----------------|------------------------|----------------|------------|--------------|-------------------|-----------------|--------------|
| <u> </u>        |                            | (cfs)   | <u>(ft)</u> | (ft)           | (ft)                   | (ft)           | (ft/ft)    | (ft/s)       | (ft pa)           | (ft)            |              |
| reach 2         | 100000                     | 9537.00 | 70.00       | 88,45          |                        | 88.60          | 0.000176   | 4.26         | 12212.40          | 6282.08         | 0.18         |
| reach 2         | 99900                      | 1279.00 | 70.00       | 78.82          |                        | 78.92          | 0.000179   | 2.50         | 525.55            | 78.24           | 0.10         |
| reach 2         | 99900                      | 2215.00 | 70.00       | 81.54          |                        | 81.70          | 0.000119   | 3.15         | 752.24            | 88.24           | 0.16<br>0.17 |
| reach 2         | 99900                      | 3804.00 | 70.00       | 84.60          |                        | 84.85          | 0.000224   | 4.07         | 1133.55           | 182.30          | 0.20         |
| reach 2         | 99900                      | 9537.00 | 70.00       | 88.45          |                        | 88.58          | 0.000162   | 4.11         | 12685.89          | 6302.70         | 0.17         |
|                 |                            |         |             |                |                        |                | 0.000.102  |              | 12000.00          | 550270          |              |
| reach 2         | 99708                      | 1279.00 | 70.00       | 78.78          |                        | 78.88          | 0.000183   | 2.48         | 531.67            | 82.88           | 0.16         |
| reach 2         | 99708                      | 2215.00 | 70.00       | 81.50          |                        | 81.65          | 0.000187   | 3.09         | 772.37            | 94.41           | 0.17         |
| reach 2         | 99708                      | 3804.00 | 70.00       | 84.57          |                        | 84.80          | 0.000216   | 3.97         | 1141.06           | 148.25          | 0.19         |
| reach 2         | 99708                      | 9537.00 | 70.00       | 88.40          |                        | 88.55          | 0.000181   | 4.30         | 11452.59          | 5838.12         | 0.18         |
|                 | and property of the second |         |             |                |                        |                |            |              |                   |                 | 5.,5         |
| reach 2         | 99692                      | 1279.00 | 70.00       | 78.74          |                        | 78.85          | 0.000220   | 2.73         | 480.43            | 72.35           | 0.18         |
| reach 2         | 99592                      | 2215.00 | 70.00       | 81.44          |                        | 81.62          | 0.000231   | 3.43         | 688.53            | 81,67           | 0.19         |
| reach 2         | 99592                      | 3804.00 | 70.00       | 84.48          |                        | 84.77          | 0.000270   | 4.42         | 1034.43           | 135.68          | 0.21         |
| reach 2         | 99502                      | 9537.00 | 70.00       | 88.35          |                        | 88.53          | 0.000215   | 4.68         | 11039.22          | 5917.77         | 0.20         |
| H 1874          | Take Setant                |         |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 99550                      | 1279.00 | 70.00       | 78.74          | 72.91                  | 78.83          | 0.000201   | 2.42         | 528.64            | 78.58           | 0.16         |
| reach 2         | 99550                      | 2215.00 | 70.00       | 81.47          | 74.10                  | 81.60          | 0.000218   | 2.92         | 758.21            | 89.82           | 0.18         |
| reach 2         | 99550                      | 3804.00 | 70.00       | 84.54          | 7 <b>5.70</b>          | 84.73          | 0.000245   | 3.57         | 1150.23           | 222.76          | 0.19         |
| reach 2         | 99550                      | 9537.00 | 70.00       | 88.39          | 79.83                  | 88.49          | 0.000160   | 3.55         | 10721.75          | 4096.01         | 0.17         |
|                 | Strategy.                  |         |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 99535                      | Bridge  |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 99520                      | 1279.00 | 70.00       | 78.73          | 72.91                  | 70.65          | 0.000000   |              | 507.0-            | 70.5            |              |
| reach 2         | 99520                      | 2215.00 | 70.00       | 78.73<br>81.43 | 72.91                  | 78.82<br>81.57 | 0.000202   | 2.43         | 527.25            | 78.51           | 0.16         |
| reach 2         | 99620                      | 3804.00 | 70.00       | 81.43<br>84.50 | 75.70                  | 81.57<br>84.70 | 0.000221   | 2.93<br>3.58 | 755.16<br>1144.17 | 89.68           | 0.18         |
| reach 2         | 99520                      | 9537.00 | 70.00       | 88.29          | 79.82                  | 88.40          | 0.000248   | 3.66         |                   | 220.62          | 0.20         |
| 100U12          | 95020                      | 9337.00 | 70.00       | 00.29          | 79.02                  | 00.40          | 0.000172   | 3.56         | 10325.12          | 4046.59         | 0.17         |
| reach 2         | 99607                      | 1279.00 | 70.00       | 78.72          |                        | 78.81          | 0.000202   | 2.43         | 527.03            | 70.50           |              |
| reach 2         | 99607                      | 2215.00 | 70.00       | 81.43          |                        | 81.57          | 0.000202   | 2.43         | 754.89            | 78.50           | 0.17         |
| reach 2         | 99607                      | 3804.00 | 70.00       | 84.50          |                        | 84.70          | 0.000221   | 3.57         | 1191.95           | 89.67<br>220.59 | 0.18         |
| reach 2         | 99507                      | 9537.00 | 70.00       | 88.2B          |                        | 88.40          | 0.000247   | 3.67         | 10307.93          | 4044.43         | 0.19         |
| 100412          |                            | 3007.00 | 70.00       | 00.20          |                        | 50.40          | 0.000172   | 3.07         | 10307.93          | 4044.43         | 0.17         |
| reach 2         | 98900                      | 1295.00 | 70.00       | 78.60          |                        | 78.70          | 0.000195   | 2.53         | 522.39            | 79.34           | 0.47         |
| reach 2         | 96900                      | 2258.00 | 70.00       | 81.28          |                        | 81.44          | 0.000193   | 3.18         | 760.39            | 99.67           | 0.17         |
| reach 2         | 98900                      | 3818.00 | 70.00       | 84.29          |                        | 84.54          | 0.000232   | 4.06         | 1100.62           | 180.27          | 0.18         |
| reach 2         | 98900                      | 9620,00 | 70.00       | 88.01          |                        | 88.27          | 0.000264   | 5.13         | 8446.21           | 4324.92         | 0.20         |
|                 |                            | 3020.00 | 70.00       | - 00.01        |                        | 00.27          | 0.000204   | 5.13         | 0440,21           | 4024.82         | 0,22         |
| reach 2         | 97900                      | 1295.00 | 70.00       | 78.40          |                        | 78.50          | 0.000198   | 2.53         | 522.85            | 81.50           | 0.17         |
| reach 2         | 97900                      | 2258.00 | 70.00       | 81.08          | · <del>-</del> · · · · | 81.24          | 0.000203   | 3.16         | 765.23            | 103.17          | 0.18         |
| reach 2         | 97900                      | 3818.00 | 70.00       | 84.07          |                        | 84.31          | 0.000229   | 4.01         | 1120.50           | 167.60          | 0.20         |
| reach 2         | 97900                      | 9620.00 | 70.00       | 87.75          |                        | 88.00          | 0.000260   | 5.06         | 8032.77           | 3796.06         | 0.22         |
| 1 54 St. Jan 14 | Mark Control               |         |             |                |                        |                |            | 5.50         | OLOZ. FT          | 0,00.00         | - 0.22       |
| reach 2         | 95000                      | 1295.00 | 68.00       | 77.95          |                        | 78.03          | 0.000124   | 2.29         | 592.98            | 80.00           | 0.14         |
| reach 2         | 95000                      | 2258.00 | 68.00       | 80.57          |                        | 80.71          |            | 3.04         | 824.80            |                 | 0.16         |
| reach 2         | 96000                      | 3818.00 | 68.00       | 83.45          |                        | 83.68          | 0.000195   | 3.96         | 1264.52           | 187.31          | 0.18         |
| reach 2         | 95000                      | 9620.00 | 68.00       | 86.39          |                        | 86.96          | 0.000457   | 6.87         | 4651.52           | 2531.95         | 0.29         |
| All your a      | 2.550                      |         |             |                |                        |                |            |              |                   |                 | 5.20         |
| reach 2         | 94730                      | 1295.00 | 68.00       | 77.92          |                        | 78.01          | 0.000135   | 2.37         | 571.62            | 77.48           | 0.14         |
| reach 2         | 94730                      | 2258.00 | 68.00       | 80.51          |                        | 80.66          | 0.000450   | 3.15         | 705 40            | 87.54           | 0.17         |
| reach 2         | 94730                      | 3818.00 | 68.00       | 83.36          |                        | 83.62          |            | 4.19         |                   |                 | 0.20         |
| reach 2         | 94730                      | 9620.00 | 68.00       | 86,35          |                        | 86.82          | 0.000409   | 6.47         | 5940.96           | 3442.79         |              |
|                 | and market from a          |         |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 94655                      | 1295.00 | 68.00       | 77,91          | 70.96                  |                |            | 2.26         |                   |                 | 0.13         |
| reach 2         | 94656                      | 2258.00 | 68.00       | 80.51          | 72,20                  |                |            | 3.00         | 834.90            | 103.81          | 0.16         |
| reach 2         | 94655                      | 3818.00 | 68.00       | 83.37          | 73.82                  |                |            | 3.94         |                   | 211.12          |              |
| reach 2         | 94655                      | 9620.00 | 68.00       | 86.31          | 77.97                  | 96.79          | 0.000401   | 6.43         | 5549.66           | 3040.93         | 0.27         |
| reach 2         | 94635                      | Bridge  |             |                |                        |                |            |              |                   |                 |              |
| 100GFZ          | 54030                      | Bluge   |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 94620                      | 1295.00 | 68.00       | 77.88          |                        | 77.96          | 0.000122   | 2.26         | 597.02            | 79.45           | 0.13         |
| reach 2         | 94620                      | 2258.00 | 68.00       | 80.48          |                        | 80.62          | 0.000152   | 3.01         | 831.79            | 103.31          | 0.16         |
| reach 2         | 94620                      | 3818.00 | 68.00       |                |                        | 83.55          |            | 3.95         |                   |                 |              |
| reach 2         | 94620                      | 9620.00 | 68.00       |                |                        | 86.42          | 0.000524   | 7.19         |                   |                 |              |
|                 |                            |         |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 94530                      | 1295.00 | 68.00       | 77.87          |                        | 77.95          |            | 2.27         |                   |                 |              |
| reach 2         | 94530                      | 2258.00 | 68.00       |                |                        | 80.60          |            | 3.01         |                   |                 | 0.16         |
| reach 2         | 94530                      | 3818.00 | 68.00       |                |                        | 83.54          |            | 3.96         |                   |                 |              |
| reach 2         | 94530                      | 9620.00 | 68.00       | 85.70          |                        | 86.38          | 0.000547   | 7.33         | 3912.20           | 2342.86         | 0.32         |
|                 | - 23                       |         |             |                |                        |                |            |              |                   |                 |              |
| reach 2         | 92150                      | 1295.00 | 68.00       |                | 71.27                  |                |            | 2.50         |                   |                 |              |
| reach 2         | 92150                      | 2258.00 | 68.00       |                | 72.60                  |                |            |              |                   |                 |              |
| reach 2         | 92150                      | 3818.00 | 68.00       | 82.77          | 74.31                  | 83.04          | 0.000257   | 4.19         | 1079.97           | 138.81          | 0.21         |

HFC-RAS Plan: NM Rev Fx (Continued).
Reach RiverSta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (it) (ft) (ft) (ft) (sq ft) **(ft)** reach 2 92150 9620.00 68.00 85.14 78.55 85.36 0.000294 5.03 6656.17 5326.72 0.23 Bridge reach 2 92135 reach 2 92120 1295.00 68.00 77.50 71.27 77.60 0.000186 2.51 521.11 75.09 0.16 reach 2 92120 2258.00 68 00 80 01 72.60 80.18 0.000212 3.24 743.69 101.51 0.18 92120 reach 2 3818.00 68.00 82.75 74.31 83.01 0.000259 4.20 1076.50 138,58 0.21 reach 2 92120 9620.00 68.00 78.55 85.19 0.000306 4943.15 5.09 6740.08 0.23 91139 reach 2 1295.00 68.00 77.31 71.27 77.41 0.000203 2.57 506.58 74.26 0.17 reach 2 91139 2258.00 68.00 79.79 72 60 79.96 0.000230 3.32 721.23 99.28 0.19 reach 2 91139 3818 00 68.00 82.47 74.31 82.75 0.000280 4.31 1038.14 136.08 0.22 68.00 reach 2 91139 9620.00 84.64 78.55 84.88 0.000336 7489.50 5.26 4537.83 0.24 reach 2 91050 1295.00 68,00 77.29 71.26 0.000205 77.39 2.58 504 54 73.92 0.17 reach 2 91050 2258.00 68.00 79.77 72.61 79 94 0.000232 3.34 714.75 95.81 0.19 reach 2 91050 3818.00 68.00 82.44 74.30 82.72 0.000285 4.34 1027.79 137.78 0.22 reach 2 91050 9620.00 68.00 84.60 78.55 84.85 0.000346 5.32 7416.68 4498.27 0.25 reach 2 88641 1295.00 71.12 68.00 76.76 76,87 0.000235 2.65 489.81 74.39 0.18 reach 2 88641 2258.00 68.00 79.18 72.41 79.36 0.000260 3 41 681 83 84 76 0.20 reach 2 88641 3818.00 68.00 81.80 74.07 82.04 0.000277 4.15 1552 38 617.06 0.21 reach 2 88641 9620.00 68 00 84 04 78 19 84.16 0.000220 4.15 9402.06 17228.00 0.19 reach 2 88488 1295.00 68.00 76.72 71.15 76.83 0.000247 2.70 480.59 73.45 0.18 mach 2 88488 2258.00 68.00 79.13 72.44 79.31 0.000271 3.46 681.40 98.96 0.20 reach 2 88488 3818.00 68.00 81.76 74.11 82.00 0.000271 4.09 1763 66 977 39 0.21 reach 2 86468 9620.00 68.00 83.96 78.31 84.12 0.000268 4.56 8235.70 14365.20 0.21 88300 reach 2 1295.00 68 00 76.67 71,12 76.79 0.000245 2.69 481.46 73.23 0.18 reach 2 88300 2258.00 68.00 79.08 72.40 79.26 0.000270 3.46 679.69 97.36 0.20 reach 2 88300 3818.00 68.00 81.69 74.05 81.94 0.000287 4.21 1493.09 695.96 0.22 reach 2 88300 9620.00 68.00 83.83 78.24 84.05 0.000344 5.15 5998 59 13063 85 0.24 reach 2 87300 1295.00 68 00 76.40 71.11 76.52 0.000280 2.81 460.52 71.36 0.19 reach 2 87300 2258.00 68.00 78.78 72.41 78.98 0.000297 3.56 717.07 181.40 0.21 reach 2 87300 3818.00 68.00 81.49 74.06 81.66 0.000228 3.72 2469.24 1495.73 0.19 reach 2 87300 9620.00 68.00 83.68 78.84 83.76 0.000178 3.68 11173.63 14594.10 0.17 reach 2 85942 1295.00 68.00 75.89 71 32 76.05 0.000432 3.25 397.91 67.24 0.24 85942 reach 2 2258.00 68.00 78.24 72.67 78.49 0.000430 4.05 570.19 88.98 0.25 reach 2 85942 3818.00 68.00 1281.90 80.94 74.38 81.25 0.000391 4.66 1707.65 0.25 85942 reach 2 9620.00 68.00 83.28 78.71 83.44 0.000312 4.74 9843.07 18360.77 0.23 reach 2 85850 68.00 1295.00 75.86 71.35 76.02 0.000443 3 27 396 57 68.16 0.24 reach 2 85850 2258.00 68.00 78 20 72.72 78.45 0.000436 4.04 570.17 88.67 0.25 mach 2 85850 3818.00 68.00 80.89 74.43 81.22 0.000417 4.78 1423.06 1297.91 0.26 reach 2 85850 9620.00 68.00 83.09 78.71 83.39 0.000497 5.91 6321.29 18231.14 0.29 85835 reach 2 Bridge reach 2 85820 1295.00 68.00 75.80 71.35 75.97 0.000456 3.30 392 40 67.89 0.24 reach 2 85820 2258 00 68 00 78.13 72.72 78.39 0.000448 4.08 564.59 91.14 0.25 reach 2 85820 3818.00 68.00 80.79 74.43 81.13 0.000430 4.83 1439.56 1370.86 0.26 reach 2 85820 9620.00 68.00 82.77 78.84 83.15 0.000608 6.43 5618.05 17961.96 0.32 reach 2 85763 68.00 75.77 71.35 1295.00 0.000461 75.94 3.31 390.73 67.78 0.24 reach 2 85763 2258.00 68.00 78.11 72.72 78.37 0.000452 4.09 562.31 86.40 0.25 reach 2 85763 3818 00 68.00 BO 74 74.43 81.10 0.000452 4.94 1275.47 1294.05 0.27 reach 2 85763 9620.00 68,00 82,57 78.71 83.08 0.000765 7.13 4792.70 17707.23 0.36 reach 2 83100 1295.00 66.00 74.94 69.36 75.06 0.000256 468 83 72.05 0.19 2.77 83100 reach 2 2258.00 66.00 77.22 70.72 77.42 0.000298 3.62 644 02 82 00 0.21 83100 reach 2 3818.00 66.00 79.74 72.44 80.07 0.000354 4.64 1109.57 517.07 0.24 reach 2 83100 9620.00 66.00 82.51 76.66 82.53 0.000066 20131.26 2.30 18497.83 0.11 reach 2 82100 1295.00 66.00 74.55 69.71 74.75 0.000365 3.61 397.04 65.98 0.23 reach 2 82100 2258.00 76.69 66.00 71.08 77.04 0.000473 4.84 548.32 349.48 0.27 reach 2 82100 3818.00 66.00 78.96 72.91 79.57 0.000646 6.49 732.13 2141 24 0.33 reach 2 82100 9620.00 66.00 82.47 77.93 82 48 0.000044 2.00 24872.69 17965.43 0.09 reach 2 82000 1295.00 66.00 74.51 69.71 74.71 0.000371 3.63 394.42 65.79 0.23 reach 2 82000 2258.00 66.00 76.63 71.08 76.99 0.000482 544.26 339.60 4.87 0.27 reach 2 82000 3818.00 66.00 78.88

72.91

79.50

0.000662

6.54

725 40

2068 87

HFC-RAS Plan: NM Rev Fx (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Frouds # Chi Reach River Sta O Total (cfs) (ft/ft) (ft/s) (sq ft) (ft) (ft) (11) (ft) (ft) 9620.00 66.00 82.47 77.93 82,48 0.000044 2.00 24872.69 17965.43 0.09 reach 2 82000 66.00 74.13 69.46 74.36 0.000416 3.95 391.43 255.11 0.25 81100 1295.00 reach 2 reach 2 81100 2258.00 66.00 76.09 70.93 76.51 0.000573 5.38 544.26 655.26 0.30 81100 3818 00 66.00 78.15 72 86 78.85 0.000785 7 14 901 26 1371 33 0.36 reach 2 reach 2 81100 9620.00 66.00 79.89 79.58 82.13 0.002407 13.69 1536.51 3137.10 0.65 80100 1295.00 66.00 73.79 69.27 73.96 0.000352 3.37 461.29 93.78 0.22 reach 2 66.00 75,66 70.63 75.96 0.000463 4.51 666,08 126,49 0.26 2258.00 reach 2 80100 reach 2 80100 3818.00 66.00 77.62 72.28 78.09 0.000607 5.88 1054.08 794.59 0.31 80100 9620.00 66.00 79.04 78 44 79.95 0.001371 9.59 3035.70 991 91 0.48 each 2 79100 1295.00 66.00 73.27 69.47 73.51 0.000558 3.99 345.11 245.02 0.28 reach 2 2258.00 66.00 74.89 70.78 75.35 0.000789 5.50 455.45 346.14 0.34 79100 reach 2 77.19 7.75 76,30 711.43 72.51 1418.60 0.44 mach 2 79100 3818.00 66.00 0.001263 10257.41 eech 2 79100 9620.00 66.00 78.01 78.01 78.56 0.001202 8.43 4012.74 0.44 reach 2 77548 1295,00 66.00 72.58 68.77 72.74 0.000420 3.28 408.68 78.91 0.24 2258.00 66.00 73.86 69.93 74.19 0.000657 4.68 514.16 85.39 0.31 77548 reach 2 0.001872 77548 73.86 71.34 74 82 7.90 514.62 85.42 0.52 reach 2 3818.00 66.00 4.53 11997.15 7327.13 reach 2 77548 9620.00 66.00 76.14 75.33 76.24 0.000426 0.2677538 1295.00 62.00 72.61 65 46 72.70 0.000129 2 40 580 27 78 53 0.14 reach 2 73.92 66.86 74.12 0.000247 3.63 687.02 84.36 0.20 77538 2258.00 62.00 reach 2 2666.43 0.33 77538 3818.00 62.00 74.05 74.61 0.000676 6.06 698.01 reach 2 73.00 76.22 0.000316 4.65 12523.94 10384.67 0.23 62.00 76.10 reach 2 77538 9620.00 65.46 72.69 0.000129 2.40 579.52 78.48 0.14 reach 2 77410 1295 00 62 00 72 60 reach 2 77419 2258.00 62 00 73.89 66.86 74.09 0.000249 3.64 684.43 84.22 0.20 77419 3818.00 62.00 73.96 68.54 74.53 0.000697 6.11 690.22 84.53 0.33 reach 2 76.13 7.33 5794.17 6617.80 0.37 9620.00 62.00 75.67 73.04 0.000821 77419 reach 2 2.09 632.18 82.34 0.12 65,15 72.67 0.000107 reach 2 77357 1295.00 62.00 72.61 743.69 2571.32 reach 2 77357 2258 00 62 00 73.92 66 44 74.07 0.000201 3.16 0.18 3818.00 62.00 74.02 68.11 74 46 0.000558 5 29 754 64 2665.36 0.29 77357 reach 2 76.03 5.30 7054.58 6793.72 0.27 9620.00 62.00 75.82 74.61 0.000449 77357 reach 2 mach 2 77343 Bridge 0.000107 631.09 82.28 0.13 77329 1295.00 62.00 72.59 65.15 72 66 2 09 reach 2 73.89 66.44 74.05 0.000203 3.17 741 43 2272.26 0.18 reach 2 77329 2258.00 62.00 74.31 4.61 2224.60 2325.09 0.26 3818.00 62.00 74.03 68.11 0.000423 77329 reach 2 75.86 0.000567 5.87 6638.41 6355.86 0.30 62.00 75.58 72.22 reach 2 77329 9620.00 72.64 1.86 60.10 72.59 63.37 0.000075 709.04 82.27 0.10 reach 2 77179 1295 00 0.15 reach 2 77179 2258.00 60.10 73.89 64 78 74.01 0.000149 2.86 819.16 2326.40 3818.00 60.10 74.05 66.63 74.22 0.000252 3.74 3178 41 2332.03 0.20 reach 2 77179 75.76 5.06 7911.75 6598.83 0.25 9620.00 60.10 75.57 71.11 0.000388 77179 reach 2 reach 2 77143 Culver 70.82 0.000151 2.30 563.86 74.20 0.14 77107 1295.00 60 10 70.74 63.37 reach 2 reach 2 77107 2258.00 60.10 72.38 64.78 72.55 0.000245 3.32 691.51 81.34 0.19 74.21 0.000432 4.85 815.52 2326.07 0.26 3818.00 60.10 73.84 66.63 77107 reach 2 6539.52 0.25 9620.00 60,10 75.54 71.11 75.74 0.000399 5.12 7809.20 reach 2 77107 612.70 80.29 0.13 0.000114 2.16 reach 2 78585 1295.00 60.00 70.67 63.26 70.74 747.35 87.19 0.17 3.16 76585 2258.00 60.00 72 2B 64 61 72.43 0.000195 reach 2 78585 3818.00 60.00 73.66 66.31 74.00 0.000362 4.69 872.27 2277.10 0.24 reach 2 9620.00 60.00 75.1**7** 70.50 75.48 0.000493 5.93 7299.88 10013.14 0.29 76585 reach 2 0.13 70.67 0.000123 2.24 598.96 95.08 70.59 63.26 60.00 mach 2 78000 1295.00 765.58 639.17 0.18 72.31 0.000211 3.27 reach 2 76000 2258.00 60.00 72.15 64.60 3808.71 0.25 3818.00 60 OO 73 43 66 32 73.78 0.000388 4.80 1120.00 reach 2 76000 75.11 70.74 75.22 0.000242 4.15 11957.31 10876.23 0.20 76000 9620.00 60.00 reach 2 70.58 63.39 70.66 0.000126 2.38 593.54 101 69 0 14 1295.00 60.00 reach 2 75929 1333.36 0.19 0.000224 3.51 784,74 reach 2 72.11 64.78 72.30 75029 2258.00 60.00 73.70 0.000211 3.70 4171.54 4309.54 0.19 75929 3818.00 60.00 73 55 66.46 reach 2 11243.12 0.12 2.56 24289.95 60.00 75.16 71.16 75.18 0.000085 75929 9620.00 reach 2 0.14 63.33 70.66 0.000125 2.38 584 03 88 46 75866 1295.00 60.00 70.57 reach 2 72.08 64.69 72.2B 0.000233 3.58 808.26 1984.79 0.19 2258.00 60.00 reach 2 75868 3.38 4841.92 4399.63 0.17 73.68 0.000175 reach 2 66.39 75888 3818.00 60.00 73.57

| Reach  | River Sta      | Ex (Continu<br>Q Total<br>(cfs) | Min Ch Ei<br>(ft) | W.S. Elev<br>(ft) | Crit W.S.      | E.G. Elev      | E.G. Slope<br>(ft/ft) | Vel Chril<br>(ft/s)                   | Flow Area<br>(sq ft)                  | Top Width           | Froude #Chl |
|--|----------------|---------------------------------|-------------------|-------------------|----------------|----------------|-----------------------|---------------------------------------|---------------------------------------|---------------------|-------------|
| each 2   | 75866          | 9620.00                         | 60.00             | 75.16             | 73.55          | 75.18          | 0.000084              | 2.54                                  | 24129.61                              | 10809.99            | 0.12        |
|  |                |                                 |                   |                   |                |                |                       |                                       |                                       |                     |             |
| each 2   | 75852          | Bridge                          |                   |                   |                |                |                       |                                       |                                       |                     |             |
| PP 75, SP 1711 SP P P<br>STREET AVER TO STREET | 75090          | 1295.00                         | 60.00             | 70.54             | 63.33          | 70,63          | 0.000127              | 2.20                                  | E01 C0                                | 90.00               | 0.4         |
| each 2<br>each 2                               | 75838<br>75838 | 2258.00                         | 60.00             | 72.05             | 64.69          | 72.25          | 0.000127              | 2.39<br>3.60                          | 581,68<br>781.37                      | 88.02<br>1921.73    | 0.14        |
| each2  | 75838          | 3818.00                         | 60.00             | 73.26             | 66.39          | 73.54          | 0.000338              | 4.63                                  | 1974.78                               | 4228.20             | 0.14        |
| each 2   | 75838          | 9620.00                         | 60.00             | 75.12             | 71.01          | 75.15          | 0.000087              | 2.58                                  | 23770.27                              | 10785.72            | 0.12        |
|  | Z. Shinarii.   |                                 | _                 |                   |                |                |                       |                                       |                                       |                     |             |
| each 2   | 75752          | 1295.00                         | 60.00             | 70.53             | 63.33          | 70.62          | 0.000127              | 2.39                                  | 580.84                                | 87.85               | 0.14        |
| each 2   | 75762          | 2258.00                         | 60.00             | 72.04             | 64.68          | 72.24          | 0.000238              | 3.61                                  | 762.39                                | 1873.14             | 0.19        |
| each 2   | 75752          | 3818.00<br>9620.00              | 60.00<br>60.00    | 73.23<br>74.97    | 66.39<br>71.01 | 73.51<br>75.10 | 0.000345<br>0.000285  | 4.67<br>4.64                          | 1941.17<br>9400.76                    | 4044.82<br>10262.49 | 0.24        |
| each 2   | 75752          | 9020.00                         | 80.00             | 14.51             | 71.01          | 75.10          | 0.000280              | 4.04                                  | 9400.76                               | 10202.49            | 0.23        |
| each 2   | 75000          | 1295.00                         | 60.00             | 70.44             | 63.23          | 70.53          | 0.000125              | 2.36                                  | 702.07                                | 459.82              | 0.14        |
| each 2   | 75000          | 2258.00                         | 60.00             | 71.94             | 64.58          | 72.05          | 0.000165              | 3.01                                  | 1856.94                               | 1083.36             | 0.16        |
| each 2   | 75000          | 3818.00                         | 60,00             | 73.19             | 66.26          | 73,28          | 0.000159              | 3.17                                  | 5021.76                               | 4419,91             | 0.10        |
| BBICh 2  | 75000          | 9620.00                         | 60,00             | 74.91             | 73.31          | 74.95          | 0.000113              | 2.92                                  | 17452.66                              | 10150.96            | 0.14        |
|  |                | 1005.00                         | 00.00             | 70.00             | 00.70          | 70.00          | 0.000407              |                                       |                                       | 540.00              |             |
| eech 2   | 74000          | 1295.00<br>2258.00              | 60.00<br>60.00    | 70.29<br>71.82    | 63.70<br>65.10 | 70.39<br>71.90 | 0.000167<br>0.000150  | 2.49<br>2.65                          | 620.09<br>3165.84                     | 510.63<br>2863.61   | 0.19        |
| sech 2<br>sech 2                               | 74000<br>74000 | 3818.00                         | 60.00             | 73.12             | 66.85          | 71.90          | 0.000190              | 2.00                                  | 7480.13                               | 2863.61<br>4280.78  | 0.19        |
| each 2   | 74000          | 9620.00                         | 60.00             | 74.79             | 72.34          | 74.83          | 0.00033               | 2.96                                  | 13273.82                              | 13286.69            | 0.1         |
|  |                |                                 |                   |                   |                |                |                       |                                       |                                       |                     | 3.10        |
| each 2   | 73000          | 1481.00                         | 60.00             | 70.09             | 63,48          | 70.21          | 0.000185              | 2.81                                  | 552.17                                | 73.03               | 0.1         |
| each 2   | 73000          | 2423.00                         | 60.00             | 71.43             | 64.73          | 71,67          | 0.000308              |                                       | 653.20                                | 77.85               | 0.2         |
| sach 2   | 73000          | 3782.00                         | 60.00             | 72.65             | 66.18          | 72.96          | 0.000392              | 4.84                                  | 2407.95                               | 3238.72             | 0.2         |
| each 2   | 73000          | 9328.00                         | 60.00             | 74.46             | 70.47          | 74.62          | 0.000348              | 5.02                                  | 9239.74                               | 11474.63            | 0.2         |
|  | Zopez          | 4494.00                         | 60.00             | 70.07             | 62.42          | 70.10          | 0.000177              | 275                                   | 565 40                                | 75.04               | 0.4         |
| each 2<br>each 2                               | 72857<br>72857 | 1481.00<br>2423.00              | 60.00<br>60.00    | 70.07<br>71.40    | 63.43<br>64.66 | 70.18<br>71.63 | <del></del>           | 2.75<br>3.89                          | 565.40<br>669.12                      | 75.24<br>80.25      | 0.1         |
| sach 2   | 72857          | 3782.00                         | 60.00             | 72.59             | 66.10          | 72.91          | 0.000295              | <b>-</b>                              | 2219.19                               | 2800.89             | 0.2         |
| ech 2  | 72857          | 9328,00                         | 60.00             | 74.34             | 70.31          | 74.56          | <del></del>           |                                       | 8187.83                               | 10935.94            | 0.2         |
|  |                |                                 |                   |                   |                |                | <del> </del>          |                                       |                                       |                     |             |
| each 2   | 72794          | 1481.00                         | 60.00             | 70.04             | 63.61          | 70.17          | 0.000208              | 2.95                                  | 532.57                                | 191.43              | 0.1         |
| each 2   | 72794          | 2423.00                         | 60.00             | 71,38             | 64.89          | 71.62          | 0.000318              | 4.01                                  | 856,38                                | 292.53              | 0.2         |
| each 2   | 72794          | 3782.00                         | 60.00             | 72.62             | 66.37          | 72.87          | 0.000347              |                                       | 3328.01                               | 3881.83             | 0.2         |
| each 2   | 72794          | 9328.00                         | 60.00             | 74.40             | 73.17          | 74.50          | 0.000269              | 4.38                                  | 11166.20                              | 13898.70            | 0.2         |
|  |                | 5                               |                   |                   |                |                |                       |                                       | ·                                     |                     |             |
| each 2   | 72780          | Bridge                          |                   |                   |                |                |                       | <del> </del>                          |                                       |                     |             |
| each 2   | 72766          | 1481.00                         | 60.00             | 70.02             | 63.61          | 70.16          | 0.000210              | 2.96                                  | 529.08                                | 190,05              | 0.1         |
| each 2   | 72766          | 2423.00                         | 60.00             | 71.35             | 64.89          | 71.59          |                       |                                       | 847.87                                | 290.32              | 0.2         |
| each 2   | 72766          | 3782.00                         | 60.00             | 72.23             | 66.37          | 72.65          |                       |                                       |                                       | 3577.22             | 0.2         |
| eech 2   | 72766          | 9328.00                         | 60.00             | 74.28             | 73.17          | 74.41          | 0.000301              | 4.61                                  | 10619.80                              | 13692.14            | 0.2         |
|  | anyarin 4      |                                 |                   |                   |                |                |                       |                                       |                                       |                     |             |
| each 2   | 72680          | 1481.00                         | 60.00             | 70.00             | 63,61          | 70.14          |                       |                                       |                                       | 188.82              | 0.1         |
| each 2   | 72680          | 2423.00                         | 60.00             | 71.32             | 64.89          | 71.56          |                       |                                       |                                       | 288.30              | 0.2         |
| each 2   | 72680          | 3782.00                         | 60.00<br>60.00    | 72.13<br>74.25    | 66.37<br>73.17 | 72.60<br>74.38 |                       | <del></del>                           | 1511.12<br>10478.87                   |                     | 0.3         |
| each 2   | 72680          | 9328.00                         | 60.00             | 74.25             | 13.17          | /4.30          | 0.000311              | 4.00                                  | 10475.07                              | 13030.40            | 0.2         |
| each 2   | 71500          | 1481.00                         | 60.00             | 69.73             | 63,60          | 69.88          | 0.000227              | 3.17                                  | 521.27                                | 73.14               | 0.1         |
| each 2   | 71500          | 2423.00                         | 60.00             | 71.25             |                | 71.30          | +                     |                                       |                                       |                     | 0.1         |
| each 2   | 71500          | 3782.00                         | 60.00             | 72.26             | ·              | 72.28          |                       | +                                     |                                       |                     |             |
| each 2   | 71500          | 9328.00                         | 60.00             | 74.15             | 71,31          | 74.17          | 0.000084              | 2.52                                  | 17231.14                              | 12166.12            | 0.1         |
|  |                |                                 |                   |                   |                |                |                       |                                       |                                       |                     |             |
| each 2   | 70221          | 1481.00                         | 60.00             | 69.59             | +              | 69.65          | <del></del>           |                                       |                                       | +                   | +           |
| each 2   | 70221          | 2423.00                         | 60.00             |                   |                | <del></del>    | ·                     |                                       |                                       | <del>-</del>        | +           |
| each 2   | 70221          | 3782.00                         | 60.00<br>60.00    |                   | ···            | 72.19<br>74.07 |                       |                                       |                                       |                     |             |
| each 2   | 70221          | 9328.00                         | 60.00             | 74.00             | 70.40          | 74.07          | 0.0000                | 2.44                                  | 10011.40                              | 12332.79            | ·           |
| each 2   | 70158          | 1481.00                         | 60.00             | 69.55             | 63.19          | 69.64          | 0.000149              | 2.43                                  | 1013.77                               | 609.73              | 0.          |
| each 2   | 70158          | 2423.00                         |                   |                   |                | <del></del>    |                       |                                       | +                                     |                     | <del></del> |
| each 2   | 70158          | 3782.00                         |                   |                   | -              | <del>+</del>   |                       |                                       | +                                     |                     |             |
| each 2   | 70158          | 9328.00                         |                   |                   | 71.09          | 74.06          | 0.00008               | 7 2.47                                | 18088.38                              | 12704.06            | 0.          |
|  |                |                                 |                   |                   | <u> </u>       |                |                       |                                       | ļ                                     | ļ                   |             |
| reach 2  | 70144          | Bridge                          |                   |                   |                | -              |                       |                                       | ļ                                     | -                   |             |
|  | 1000           | 1                               |                   |                   |                |                |                       |                                       | <u> </u>                              |                     |             |
| reach 2  | 70130          | 1481.00                         |                   |                   |                |                | -                     |                                       | <del> </del> -                        | <del></del>         | <del></del> |
| reach 2  | 70130          | 2423.00                         |                   |                   |                |                |                       |                                       | · · · · · · · · · · · · · · · · · · · |                     | +           |
| reach 2  | 70130          | 3782.00<br>9328.00              |                   |                   |                |                |                       | · · · · · · · · · · · · · · · · · · · |                                       |                     | <del></del> |
| reach 2  | 70130          | 9328.00                         | 60.00             | 14.01             | 71.04          | 74.04          | - v.vvvvo             | Z.48                                  | 17540.71                              | 12003,23            | <u> </u>    |
| <del> </del>                                   | 70044          | 1481.00                         | 60.00             | 69.52             | 63.18          | 69.60          | 0.00015               | 2 2.45                                | 990.3                                 | 7 596.76            | 0.          |

| Reach   | River Sta          | Q Total      | Min Ch El    | W.S. Elev   | Crit W.S.    | E.G. Elev   | E.G. Slope                            | Vel Chril  | Flow Area                             | Top Width    | Froude # Chi |
|---|--------------------|--------------|--------------|-------------|--------------|-------------|---------------------------------------|--|---------------------------------------|--------------|--------------|
| <u> </u>  | देश (भगः, स्ट्रांग | (cfs)        | (ft)         | (ft)        | (ft)         | (ft)        | (fl/ft)                               | (ft/s)   | (sq ft)                               | (n)          |              |
| reach 2   | 70044              | 2423.00      | 60.00        | 71.05       | 64.35        | 71.10       | 0.000110                              | 2.34   | 3831.44                               | 3817.02      | 0.13         |
| reach 2   | 70044              | 3782.00      | 60.00        | 72.08       | 65.72        | 72.12       | 0.000097                              | 2.34   | 6407.70                               |              | 0.12         |
| reach 2   | 70044              | 9328.00      | 60.00        | 74.01       | 71.04        | 74.03       | 0.000089                              | 2.49   | 17894.81                              | 12650.54     | 0.12         |
|   | A Section 1        |              |              |             |              |             |                                       |  |                                       |              |              |
| reach 2   | 70000              | 1481.00      | 60.00        | 69.51       | 63.08        | 69.60       | 0.000149                              | 2.44   | 829.44                                | 504.62       | 0.15         |
| reach 2   | 70000              | 2423.00      | 60.00        | 71.03       | 64.21        | 71.10       | 0.000122                              | 2.47   | 3278.85                               | 3600.48      | 0.14         |
| reach 2   | 70000              | 3782.00      | 60.00        | 72.07       | 65.53        | 72.12       | 0.000112                              | 2.52   | 5751.11                               | 3957.07      | 0.13         |
| reach 2   | 70000              | 9328.00      | 60.00        | 74.00       | 71.14        | 74.03       | 0.000095                              | 2.59   | 17139.90                              |              | 0.13         |
| OVER MADE AND A SECOND  | Maddan and         |              |              |             |              |             |                                       |  |                                       |              |              |
| reach 2   | 60000              | 1481.00      | 60.00        | 69.36       | 62.89        | 69.45       | 0.000145                              | 2.40   | 693.19                                | 414.61       | 0,15         |
| reach 2   | 69000              | 2423.00      | 60.00        | 70.89       | 63.97        | 70,97       | 0.000131                              | 2.55   | 2898.63                               | <del></del>  | 0.14         |
| reach 2   | 69000              | 3782.00      | 60.00        | 71.94       | 65.24        | 72.00       | 0.000123                              | 2.64   | 5239.88                               |              | 0.14         |
| reach 2   | 69000              | 9328.00      | 60.00        | 73.93       | 71.07        | 73,95       | 0.000061                              | 2.07   | 19870.76                              | <del></del>  | 0.10         |
|   | towns of the       |              |              |             |              |             |                                       |  |                                       | 10.100.11.0  |              |
| reach2  | 68000              | 1481.00      | 60.00        | 69.10       |              | 69.25       | 0.000277                              | 3.15   | 486.66                                | 72.29        | 0.20         |
| reach2  | 68000              | 2423.00      | 60.00        | 70.52       |              | 70.75       |                                       | 4.03   | 1272.01                               | 1433.36      | 0.23         |
| reach 2   | 66000              | 3782.00      | 60,00        | 71.62       |              | 71.80       |                                       | 4.14   | 3237.67                               | 2181.63      | 0.23         |
| reach 2   | 68000              | 9328.00      | 60.00        | 73,70       |              | 73.83       | · · · · · · · · · · · · · · · · · · · | 4.64   | 9273.63                               |              | 0.23         |
| SEPTEMBER   | A. 2               |              |              |             |              |             |                                       |  | 5270.00                               | 3022.01      | 0.20         |
| reach 2   | 66518              | 1481.00      | 60.00        | 68.70       |              | 68.85       | 0.000290                              | 3.14   | 485.45                                | 74.19        | 0.20         |
| reach 2   | 66518              | 2423.00      | 60.00        | 70.26       |              | 70.34       | 0.000192                              | 2.90   | 3085.88                               |              | 0.20         |
| reach 2   | 86518              | 3782.00      | 60.00        | 71.43       |              | 71.48       | 0.000132                              | 2.60   | 6572.48                               |              | 0.17         |
| reach 2   | 66518              | 9328.00      | 60.00        | 73.49       |              | 73.53       | 0.000132                              | 2.89   | 15183.17                              | <del></del>  | 0.14         |
| September A. A. Artistan  | September 1 77     |              | 30.00        | , 5.48      |              | , 0,00      | J. 555 127                            | 2.09   | ,5,00.17                              | 7024.05      | 0.13         |
| reach 2   | 66456              | 1481.00      | 60.00        | 68.68       | 63.40        | 68.84       | 0.000292                              | 3.15   | 484.27                                | 74.12        | 0.20         |
| reach 2   | 66456              | 2423.00      | 60.00        | 70.24       | 64.60        | 70.33       |                                       | 2.91   | 3059.56                               | <del></del>  | 0.20         |
| reach 2   | 66456              | 3782.00      | 60.00        | 71.43       | 66.02        | 71.48       | <del></del>                           | 2.61   | 6566.80                               | <del></del>  | 0.14         |
| reach 2   | 66456              | 9328.00      | 60.00        | 73.49       | 70.60        | 73.53       |                                       | 2.89   | 15170.73                              |              | 0.15         |
|   |                    | 5525.55      | 55.50        |             | , 0.00       | 70.00       | 0.000127                              | 2.00   | 10170.70                              | 4320.00      | 0.10         |
| reach 2   | 66442              | Bridge       |              |             |              |             |                                       | <del> </del>                                     |                                       |              |              |
| the second second   | Carrie .           | Dillego      |              |             |              |             | 1                                     |  | <del></del>                           | -            | <del> </del> |
| reach 2   | 66428              | 1481.00      | 60.00        | 68.53       |              | 68.69       | 0.000313                              | 3.21   | 472.89                                | 73.48        | 0.21         |
| reach 2   | 66428              | 2423.00      | 60.00        | 70.16       |              | 70.26       | <del></del>                           | 3.02   | 2863.36                               | <del> </del> | <del></del>  |
| reach 2   | 66428              | 3782.00      | 60.00        | 71.38       |              | 71.43       | <del></del>                           | 2.67   | 6378.02                               |              |              |
| reach 2   | 66428              | 9328.00      | 60.00        | 73.45       |              | 73.48       |                                       | 2.93   |                                       | <del> </del> |              |
| Todarz.   | 00-120             | 5320.00      | 00.00        | 73,45       |              | 73.40       | 0.000131                              | 2.93   | 14900.30                              | 4692.79      | 0.15         |
| reach 2   | 66342              | 1481.00      | 60.00        | 68.50       |              | 68.66       | 0.000317                              | 3.22   | 471.02                                | 73.38        | 0.00         |
| reach 2   | 66342              | 2423.00      | 60.00        | 70.07       |              | 70.22       |                                       | 3.54   | 1879.30                               |              | 0.21         |
| reach 2   | 66342              | 3782.00      | 60.00        | 71.28       |              | 71.39       |                                       | <del></del>                                      | · · · · · · · · · · · · · · · · · · · | <del></del>  |              |
| reach 2   | 66342              | 9328.00      | 60.00        | 73.39       |              | 71.36       | 4                                     | 3.43   | <del></del>                           |              |              |
| THE COLUMN | 000-12 as          | 5020.00      | . 00.00      | 73.38       |              | 73.40       | 0.000212                              | 3.12   | 17720.00                              | 4229.31      | 0.19         |
| reach 2   | 65921.*            | 1481.00      | 60.00        | 68.35       |              | 68.52       | 0.000340                              | 3.29   | 459.87                                | 70.05        | 0.00         |
| reach 2   | 65921.1            | 2423.00      | 60.00        | 69.91       |              | 70.09       | <del>+</del>                          | +  |                                       |              |              |
| reach 2   | 65921.*            | 3782,00      | 60.00        | 71.17       |              |             | <del> </del>                          | ·····  |                                       | +            | 0.22         |
| reach 2   | 65921.*            | 9328.00      | 60.00        |             |              | 71.29       |                                       | 3.54   |                                       |              |              |
| 198312  | 00921.             | 9328.00      | 60.00        | 73.30       |              | 73.37       | 0.000228                              | 3.83   | 11308.46                              | 4193,21      | 0.19         |
|   | OCEOO.             | 4404.00      | 00.00        | 60.40       | <u> </u>     | 60.00       | 0.000000                              |  | 454.00                                | 447.05       |              |
| reach 2   | 65500<br>65500     | 1481.00      | 60.00        | 68.18       |              | 68.36       | <del></del>                           | <del></del>                                      |                                       | <del>,</del> |              |
| reach 2   |                    | 2423.00      | 60.00        | 69.79       |              | 69.95       | <del></del>                           | <del> </del>                                     |                                       | <del></del>  | <del></del>  |
| reach 2   | 65500              | 3782.00      | 60.00        | 71.10       | <u>-</u>     | 71.18       | <del></del>                           | +  | <del></del>                           | <del> </del> |              |
| reach 2   | 65500              | 9328.00      | 60.00        | 73.22       |              | 73.28       | 0.000202                              | 3.59   | 11213.05                              | 3533.87      | 0.18         |
|   | DE INC.            | 4404.55      | 20.00        |             |              |             | 0.0004                                | <del> </del>                                     | 140                                   |              |              |
| reach 2   | 65133.3*           | 1481.00      | 60.00        | 67.99       |              | 68.20       | +                                     | +  | <del></del>                           | +            | +            |
|   | 66133.31           | 2423.00      |              |             |              | 69.78       | +                                     | <del> </del>                                     |                                       | .+           |              |
| reach 2   | 85133.3*           | 3782.00      |              | <del></del> | -            | 71.06       | +                                     | <del>                                     </del> | <del></del>                           |              |              |
| - COUNTE  | 65133:3*           | 9328.00      | 60.00        | 73.03       |              | 73.17       | 0.000401                              | 4.94   | 8292.33                               | 3209.56      | 0.26         |
|   | Construction       | 4:5:5=       |              | <del></del> | ļ. <u></u> - | <del></del> |                                       | <u> </u>   |                                       |              |              |
| reach 2   | 64766.6*           | 1481.00      | 60.00        | 67.80       |              | 68.02       | <del>+</del>                          |  |                                       | -            |              |
| reach 2   | 64768.6*           | 2423.00      |              | 69.12       |              | 69.53       | <del></del>                           |  |                                       | <del></del>  | <del></del>  |
| reach 2   | 84786.6*           | 3782.00      |              |             |              |             | +                                     | <del></del>                                      |                                       |              | <del></del>  |
| reach 2   | 64786.6*           | 9328.00      | 60.00        | 72.65       | ļ            | 72.97       | 0.000732                              | 6.51   | 5831.67                               | 2592.96      | 0.34         |
|   |                    | <del> </del> |              |             | ļ. <u>.</u>  |             | <del> </del>                          | ļ  |                                       |              | ļ            |
| reach 2   | 64400              | 1481.00      | 60.00        |             | 63.46        |             |                                       | +  | <del></del>                           |              | +            |
| reach 2   | 64400              | 2423.00      | <del></del>  | <del></del> | 64.70        |             |                                       |  |                                       | <del></del>  |              |
| reach 2   | 64400              | 3782.00      | <del></del>  |             |              |             | · · · · · · · · · · · · · · · · · · · | +  |                                       | <del></del>  | <del></del>  |
| reach 2   | 64400              | 9328.00      | 60.00        | 72.00       | 71.44        | 72.61       | 0.001228                              | 8.21   | 4052.50                               | 1784.49      | 0.44         |
|   |                    |              | L            |             |              | ļ           |                                       |  | ļ                                     |              | ļ            |
| reach 2   | 62879              | 1481.00      | <del></del>  | -           |              |             | <del></del>                           | +  |                                       | <del></del>  |              |
| reach 2   | 62679              | 2423.00      |              | <del></del> | <del></del>  | <del></del> | <del></del>                           | - <del></del>                                    |                                       |              |              |
| reach:2   | 62879              | 3782.00      | <del></del>  | <del></del> |              |             | <del></del>                           |  |                                       | <del></del>  |              |
| reach 2   | 62879              | 9328.00      | 58.00        | 71.81       | 68.00        | 71.87       | 0.000189                              | 3.37   | 9125.4                                | 9667.83      | 0.1          |
|   |                    |              |              |             |              |             |                                       |  |                                       |              |              |
| reach 2   | 62817              | 1481.00      | 58.00        | 67.35       | 61.73        | 67.3        | 7 0.000053                            | 1.39   | 3406.9                                | 2 4418.9     | 0,0          |
| reach 2   | 62817              | 2423.00      | 58.00        | 68.77       | 63.02        | 68.78       | 0.000044                              | 1.42   | 5442.4                                | 5834.10      | 0.0          |
|   | 62817              | 3782.00      | <del>}</del> | <del></del> |              | 69.70       | 0.000058                              |  | +                                     | 5 6695.4     | 0.1          |

| Reach                       | n: NM Rev<br>River Ste                | C Total<br>(cfs)   | Min Ch El<br>(ft)                            | W.S. Elev<br>(ft) | Crit W.S.                             | E.G. Elev      | E.G. Slope<br>(ft/ft) | Vel Chril<br>(ft/s) | Flow Area<br>(sq.ft)                             | Top Width           | Froude # Chl |
|-----------------------------|---------------------------------------|--------------------|--|-------------------|---------------------------------------|----------------|-----------------------|---------------------|--|---------------------|--------------|
| each 2                      | 52817                                 | 9328.00            | 58.00  | 71.81             | 66.87                                 | 71.84          | 0.000114              | 2.75                | 10680.16   | 10958.68            | 0.14         |
|                             | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                    |  |                   |                                       |                |                       |                     |  |                     |              |
| each 2                      | 62803                                 | Bridge             | -  |                   |                                       |                |                       |                     |  |                     |              |
|                             | - Anton                               | 4404.00            | E0 00  | 67.34             | 61.73                                 | 67.35          | 0.000050              | 1.34                | 3558.35  | 4402.14             | 0.08         |
| reach 2<br>reach 2          | 62789<br>62789                        | 1481.00<br>2423.00 | 58.00<br>58.00                               | 68.75             | 63.02                                 | 68.77          | 0.000030              | 1.37                | 5663.34  | 5819.25             | 0.08         |
| reach 2                     | 62789                                 | 3782.00            | 58.00  | 69.67             | 65,19                                 | 69.68          | 0.000055              | 1.67                | 7123.11  | 6678.53             | 0.09         |
| reach 2                     | 62789                                 | 9328.00            | 58.00  | 71.79             | 66.77                                 | 71.82          | 0.000107              | 2.65                | 11062.29   | 10948.90            | 0.13         |
|                             |                                       |                    |  |                   |                                       |                |                       |                     |  |                     |              |
| reach 2                     | 62703                                 | 1481.00            | 58.00  | 67.33             | 61.73                                 | 67,34          | 0.000045              | 1.28                | 3793.54  | 4399.61             | 0.08         |
| reach:2                     | 82703                                 | 2423.00            | 58.00  | 68.75             | 63.02                                 | 68.76          | 0.000037              | 1.30                | 5993.77  | 5814.79             | 0.08         |
| reach 2<br>reach 2          | 62703<br>62703                        | 3782.00<br>9328.00 | 58.00<br>58.00                               | 69.67<br>71.79    | 65.17<br>66.68                        | 69.68<br>71.81 | 0.000049<br>0.000097  | 1.59<br>2.53        | 7522.54<br>11652.76                              | 6677.01<br>10947.42 | 0.09         |
| 198012                      | 02100                                 | 9320.00            | 36.00  | 71.78             | 00.00                                 | 71.01          | 0.000031              | 2.50                | 11002.10   | 10041.42            | 0.10         |
| reach 2                     | 62600                                 | 1481.00            | 58.00  | 67.33             | 61.73                                 | 67.33          | 0.000018              | 0.82                | 6340.40  | 3469.22             | 0.05         |
| reach 2                     | 62600                                 | 2423.00            | 58.00  | 68.75             | 63.02                                 | 68.75          | 0.000016              | 0.85                | 9504.37  | 4402.26             | 0.05         |
| reach 2                     | 62600                                 | 3782.00            | 58.00  | 69.67             | 65.00                                 | 69.67          | 0.000021              | 1.04                | 11649.27   | 4994.49             | 0.06         |
| reach 2                     | 62600                                 | 9328.00            | 58.00  | 71.78             | 65.90                                 | 71.79          | 0.000042              | 1.67                | 17821.54   | 9136.04             | 0.08         |
| la self self self self self | are reference                         | 4404.00            | 50.00  | 67.00             | C4 77                                 | 67.00          | 0.000042              | 0.74                | 7010.34  | 9521.80             | 0.04         |
| reach 2<br>reach 2          | 61620<br>61620                        | 1481.00<br>2423.00 | 58.00<br>58.00                               | 67.32<br>68.72    | 61.77<br>63.83                        | 67.32<br>68.73 | 0.000013<br>0.000014  | 0.74                | 10780.26   | 11082.55            | 0.05         |
| reach 2                     | 61620                                 | 3782.00            | 58.00  | 69.65             | 64.27                                 | 69.66          | 0.000017              | 0.98                | 14232.03   | 12407.03            | 0.06         |
| reach 2                     | 61620                                 | 9328.00            | 58.00  | 71.76             | 65.25                                 | 71.76          |                       | 1.44                | 22081.93   | 13286.90            | 0.07         |
|                             |                                       |                    |  |                   |                                       |                |                       |                     |  |                     | ·            |
| reach 2                     | 61584                                 | 1481.00            | 58.00  | 67.25             | 61.59                                 | 67.30          | 0.000131              | 2.20                | 2280.17  | 9371.97             | 0.14         |
| reach 2                     | 61584                                 | 2423.00            | 58.00  | 68.70             | 62.80                                 | 68.72          | 0.000060              | 1.67                | 6647.94  |                     | 0.10         |
| reach 2                     | 81584                                 | 3782.00<br>9328.00 | 58.00<br>58.00                               | 69.64<br>71.75    | 64.21<br>68.26                        | 69.65<br>71.76 | 0,000050              | 1.62<br>1.96        | 10147.83<br>18014.55                             |                     | 0.00         |
| reach 2                     | 61584                                 | \$320.00           | 36.00  | 71.13             | 00.20                                 | 71.70          | 0.000000              | 1.50                | 10014.00   | 10200.40            | U. 10        |
| reach 2                     | 61570                                 | Bridge             |  |                   |                                       |                |                       |                     |  | -                   |              |
|                             |                                       |                    |  |                   |                                       |                |                       |                     |  |                     |              |
| reach 2                     | 61556                                 | 1481.00            | 58.00  | 67.19             | 61.59                                 | 67.25          | 0.000140              | 2.26                | 2168.15  |                     | 0.14         |
| reach 2                     | 61556                                 | 2423.00            | 58.00  | 68.68             | 62.80                                 | 68.70          |                       | 1.69                | 6555.91  | 11707.75            | 0.10         |
| reach 2                     | 61556                                 | 3782.00            | 58.00  | 69.62             | 64.21                                 | 69.63          | 0.000052              | 1.64                | 10068.95   |                     | 0.09         |
| reach 2                     | 61556                                 | 9328.00            | 58.00  | 71.73             | 68.21                                 | 71.75          | 0.000058              | 1.97                | 17945.26   | 13281.31            | U. IC        |
| reach 2                     | 61443                                 | 1481.00            | 58.00  | 67.21             | 61.59                                 | 67.22          | 0.000021              | 0.93                | 6466.92  | 8461.63             | 0.06         |
| reach 2                     | 61443                                 | 2423.00            | 58.00  | 68.68             | 62.77                                 | 68.68          | <del></del>           | 0.96                | 10500.96   | 9683.85             | 0.09         |
| reach 2                     | 61443                                 | 3782.00            | 58.00  | 69.62             | 64.86                                 | 69.62          | 0.000021              | 1.10                | 14715.05   | 11970.17            |              |
| reach 2                     | 61443                                 | 9328.00            | 58.00  | 71.73             | 66.15                                 | 71.73          | 0.000028              | 1.42                | 24973.95   | 13280.32            | 0.07         |
|                             |                                       |                    |  |                   |                                       |                |                       |                     | 40050.40   | 0744.40             | 0.04         |
| reach 2                     | 60700                                 | 1481.00<br>2423.00 | 58.10<br>58.10                               | 67.20<br>68.66    | 61.66<br>62.85                        | +              | 0.000012              | 0.70                | 4  | <del></del>         | 0.03         |
| reach 2<br>reach 2          | 60700<br>60700                        | 3782.00            | 58.10  | 69.60             | 64.85                                 | <del></del>    |                       | 0.65                |  | <del></del>         |              |
| reach 2                     | 60700                                 | 9328.00            | 58.10  | 71.71             | 65.96                                 |                |                       | 0.87                |  | +                   | 0.0          |
|                             | 7 - Ja -                              |                    |  |                   |                                       |                |                       |                     |  |                     |              |
| reach 2                     | 58982                                 | 1481.00            | 58.00  | 67.08             | 61.57                                 |                |                       | 2.33                |  |                     |              |
| reach 2                     | 58982                                 | 2423.00            | 58.00  | 68.63             | 62.80                                 |                |                       | 1.45                |  |                     | <del></del>  |
| reach 2                     | 58982                                 | 3782.00            | 58.00  | 69.57<br>71.69    | 64.21<br>67.86                        |                | ·                     | 1.31                | 14939.25<br>29683.63                             |                     |              |
| reach 2                     | 58982                                 | 9328.00            | 58.00  | /1.09             | 01.00                                 | 71,08          | 0.000020              | 1.00                | 25000.00   | 11000.02            | 0.0          |
| reach 2                     | 58909                                 | 1481.00            | 58.00  | 66.93             | 61.64                                 | 67.10          | 0.000321              | 3.33                | 492.59   | 3943.76             | 0.2          |
| reach 2                     | 58909                                 | 2423.00            | 58.00  | <del></del>       | 62.95                                 |                | 0.000174              | 2.78                | 3884.89  | 7310.01             | 0.1          |
| reach 2                     | 58909                                 | 3782.00            | 58.00  | 69.53             | 64.40                                 | 69,56          | <del></del>           |                     |  |                     |              |
| reach 2                     | 58909                                 | 9328.00            | 58.00  | 71.68             | 68.89                                 | 71,69          | 0.000071              | 2.16                | 19946.25   | 10335.10            | 0.1          |
|                             | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5.1.               |  |                   | -                                     |                |                       |                     | 1  | <del> </del>        |              |
| reach 2                     | 58887                                 | Bridge             | <u>.                                    </u> |                   | -                                     |                |                       |                     | <del>                                     </del> |                     |              |
| reach 2                     | 58865                                 | 1481.00            | 58.00  | 66.79             | 61.64                                 | 66.97          | 0.000342              | 3.39                | 460.22   | 3819.82             | 0.2          |
| reach 2                     | 58865                                 | 2423.00            |  |                   |                                       |                |                       |                     |  | +                   |              |
| reach 2                     | 58865                                 | 3782.00            |  |                   |                                       |                | 0.000127              | <del></del>         |  |                     |              |
| reach 2                     | 58865                                 | 9328.00            | 58.00  | 71.66             | 68.88                                 | 71.67          | 0.000072              | 2.18                | 19821.52   | 10332.05            | 0.1          |
|                             |                                       |                    |  |                   |                                       |                | 0.000315              |                     | 740 4  | 3802.43             | 0.2          |
| reach 2                     | 58787                                 | 1481.00            |  |                   | +                                     |                |                       |                     | +  |                     |              |
| reach 2                     | 58787<br>58787                        | 2423.00<br>3782.00 |  |                   |                                       |                |                       |                     |  |                     | +            |
| reach 2<br>reach 2          | 58787                                 | 9328.00            | +  |                   | · · · · · · · · · · · · · · · · · · · |                |                       |                     |  |                     |              |
| I COMIT                     |                                       | 3020.00            |  | 1                 |                                       |                |                       |                     |  |                     |              |
| reach 2                     | 57900                                 | 1481.00            | 58.00  |                   | <del></del>                           |                |                       |                     |  |                     | +            |
| reach 2                     | 57900                                 | 2423.00            | <del></del>                                  |                   |                                       |                | -                     |                     |  | <del></del>         |              |
| reach 2                     | 57900                                 | 3782.00            |  |                   |                                       | <del></del>    |                       |                     |  |                     |              |
| reach 2                     | 57900                                 | 9328.00            | 58.00  | 71.61             | 66.72                                 | 2 71.62        | 2 0.000038            | 3 1.59              | 26491.9  | 1 10223.31          | 0.0          |
|                             |                                       | 1                  | 1  | 1                 | 1                                     | 1              | 1                     | 1                   | 1  | 1                   | 1            |

HFC-RAS Plan: NM Rev Fx (Continued) Min Ch El W.S. Elev Crlt W.S. F.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi River Sta O Total (cfs) (ft) (ft) (ft/ft) (ft/s) (sq ft) **(ft)** (ft) · reach 2 55821 2423.00 58.00 68.39 62.79 68.39 0.000017 0 91 14108 63 9318 01 0.05 55821 3782.00 58.00 69.42 64.23 69.42 0.000013 21142.04 9731.97 reach 2 0.84 0.05 reach 2 55821 9328.00 58.00 71.57 66.67 71.57 0.000015 1.02 35989.99 10235.78 0.05 1481.00 66.61 61.53 66.63 0.000060 1.50 4987.37 4885,15 reach 2 55758 58,00 0.09 reach 2 56758 2423.00 58.00 68.38 62.73 68 3B 0.000013 0.78 153BB 85 9291.90 0.04 55758 3782.00 58.00 69.41 64.15 69.41 0.000010 0.76 22404.15 9690.09 0.04 reach 2 0.000013 0.97 reach 2 55758 9328.00 58.00 71.57 66.67 71.57 37122.86 10181.75 0.05 55744 Bridge reach 2 2.07 reach 2 55730 1481.00 58.00 66.55 61.53 66.59 0.000117 2623.54 3414.36 0.13 0.000034 55730 2423.00 58.00 68.36 62.73 68.37 1.28 9575.19 8592.83 0.07 reach 2 15695.17 55730 3782.00 58,00 64.15 69.40 0.000026 1.19 9808.78 0.06 reach 2 9328.00 58.00 71.55 67.14 71.56 0.000025 1.34 30276.80 10779.38 0.07 55730 reach 2 55844 61.52 66.58 0.000087 1.79 2932.87 1481.00 58.00 66.55 3398.90 0.11 reach 2 reach 2 1.08 55644 2423.00 58.00 68.35 62.73 68.36 0.000024 11221.99 8011.97 0.06 reach 2 3782.00 58.00 69.39 64.15 69.39 0.000019 1 03 17857 63 9174 38 0.06 9328.00 66.79 71.55 0.000020 1.19 33519.02 10163.50 0.08 reach 2 55644 58.00 71.55 54900 1481.00 58.00 66.51 61.26 66.53 0.000050 1,37 5324.97 4241.14 0.09 reach 2 58.00 68.34 68.34 0.000012 0.77 14727.98 6178.92 0.04 reach 2 54900 2423.00 62.42 54900 0.79 7215.47 0.04 reach 2 3782.00 58.00 69.38 63.79 69.38 0.00001 20860,92 reach 2 54900 9328.00 58,00 71.54 66.48 71.54 0.000015 1.05 34117.76 8125.51 0.05 1481.00 58,00 66.41 61.36 66.42 0.000069 1.49 3658.78 2090.14 0.10 reach 2 53165 53166 1.12 3251.22 0.07 2423.00 58.00 68.31 62.52 68.31 0.000028 8710.92 reach 2 64.74 69.35 0.000030 1.24 12468.82 3973.81 0.07 3782.00 58,00 69.35 reach 2 53165 0.000040 1,62 53165 9328.00 58.00 71.49 66.29 71.50 22014.04 6722.74 0.06 reach 2 reach 2 53128 1481.00 58.00 66.34 61.24 66.40 0.000163 2.42 1741.32 1411.97 0.15 2423.00 58.00 68.29 62.37 68.31 0.000056 1 65 6450.52 3349 62 0.09 reach 2 53128 reach 2 53128 3782.00 58.00 69.34 63.67 69.35 0.000050 1.67 10351.98 4103.26 0.09 71.50 0.000055 1.97 20225.85 6841.97 0.10 9328.00 58.00 71.48 67.34 reach 2 53128 reach 2 53114 Bridge 1481.00 58,00 66.29 61.24 66.37 0.000172 2.47 1707.88 1501.00 0.16 reach 2 63100 68.29 0.000050 1,56 7359.46 4058.18 0.09 reach 2 53100 2423.00 58.00 68.27 62.37 1,51 53100 3782.00 58,00 69.32 63.67 69.33 0.000041 11988.60 4763,23 0.08 reach 2 0.000042 8333.35 71.48 1.74 23396.40 0.09 9328.00 58.00 71.47 67.35 reach 2 53100 1677.19 reach 2 52987 1481 00 58.00 66 27 61 24 66.35 0.000175 2.49 1472.62 0.16 reach 2 2423.00 58.00 68.26 62.37 68.28 0.000051 1 57 7321.04 4051.82 0.09 58.00 69.33 0.000041 1.52 11951.12 4757.94 0.08 reach 2 52987 3782.00 69.32 63.67 0.000043 1.74 23348.29 9328.00 58.00 71.46 67.35 8329.06 0.09 52987 reach 2 0.000175 2.49 1943.81 2218.70 0.16 reach 2 52500 1481.00 58.00 66.19 61.20 66.26 68.26 0.000038 1.36 8544.65 4137.48 0.08 reach 2 52500 2423.00 58 00 68 25 62 34 4798.33 52500 3782.00 58.00 69 30 63.66 69.31 0.000032 1.34 13251.71 0.07 reach 2 9328.00 58.00 71.44 67.08 71 45 0.000036 1,59 24671.42 8320.17 0.08 reach 2 52500 50599 1481.00 56.00 65.72 59.77 65.87 0.000245 3.10 503.03 72.67 0.19 reach 2 61.07 68.08 0.000299 3.97 738.73 347.03 0.22 50599 56,00 67.84 2423.00 reach 2 0.000444 5,13 2048.53 2817.05 0.27 3782.00 68.77 62.54 69.13 reach 2 50599 56.00 13862.62 0.17 71.32 0.000170 3.62 8257.65 reach 2 50599 9328.00 56,00 71.25 66.88 1481.00 56.00 65.72 59 55 65.85 0.000228 284 527.52 73 71 0.18 reach 2 50550 68.06 0.000241 3.43 1334.62 1525 34 0.19 2423.00 56,00 67.88 60.83 50550 reach 2 4531.19 0.19 68.93 62.28 69.07 0.000222 3.52 3904.69 56.00 reach 2 50550 3782.00 0.000107 2.77 15547.24 8769.42 0.13 9328.00 71.27 69.11 71.30 reach 2 50550 56,00 reach 2 50536 Bridge 59.55 65.81 0.000232 2.85 525 01 73.57 0.18 50522 1481.00 56.00 reach 2 56.00 67.74 60.83 67.92 0.000264 3.55 1125.50 1281.78 0.20 50522 2423.00 reach 2 62.28 68.94 0.000267 3.82 3920.49 3739.14 0.20 3782.00 56,00 68.77 reach 2 50522 0.000110 15356.38 8756.91 0.14 2.81 71.26 reach 2 50522 9328.00 56.00 71.23 66.32 0.18 50423 1481.00 56.00 65.67 59 55 65.80 0.000233 2.86 523.59 73.49 reach 2 56.00 60.83 67.90 0.000267 3.57 1095.86 1243.40 0.20 reach 2 50423 2423.00 67.71 0.000277 3.88 3799 AA 3705 57 0.21 3782.00 56,00 68.74 62.28 68.92 50423 reach 2 66.32 71.25 0.000111 2.82 15311.40 8753.96 0.14 9328.00 56.00 reach 2 50423 71.22

| Reach   | River Sta           | Q Total  | Min Ch El | W.S. Elev | Crit W.S.    | E.G. Elev | E.G. Slope | Vel Chril      | Flow Area    | Top Width | Froude # Chl                            |
|---|---------------------|----------|-----------|-----------|--------------|-----------|------------|----------------|--------------|-----------|---|
|   |                     | (cfs)    | (n)       | (ft)      | (n)          | (ft)      | (fl/ft)    | (ft/s)         | (sq ft)      | (ft)      |   |
| =366世代的   | in the terms of the |          |           |           |              |           |            |                |              |           |   |
| reach 2   | 49400               | 1481.00  | 56.00     | 65.40     | 59.58        | 65.53     | 0.000255   | 2.90           | 514.92       | 75.71     | 0.19                                    |
| reach 2   | 49400               | 2423.00  | 56.00     | 67.45     | 60.82        | 67.62     | 0.000253   | 3.40           | 1871.31      | 3653.51   | 0.20                                    |
| reach 2   | 49400               | 3782.00  | 56.00     | 68.63     | 62.28        | 68.68     | 0.000132   | 2.65           | 6984.18      | 4794.81   | 0.14                                    |
| reach 2   | 49400               | 9328.00  | 56.00     | 71.15     | 66.20        | 71.17     | 0.000054   | 1.97           | 21345.20     | 8433.63   | 0.10                                    |
|   |                     |          |           |           |              |           |            |                |              |           |   |
| reach 2   | 48450               | 1481.00  | 56.00     | 65.09     | 59.73        | 65.26     | 0.000301   | 3.25           | 474.35       | 73.44     | 0.21                                    |
| reach 2   | 48450               | 2423.00  | 56.00     | 67.45     | 61.03        | 67.47     | 0.000054   | 1.65           | 7842.98      | 5110.39   | 0.09                                    |
| reach 2   | 48450               | 3782.00  | 56.00     | 68.60     | 62.46        | 68,61     | 0.000033   | 1.38           | 14051.53     | 5962.57   | 0.07                                    |
| reach 2   | 48450               | 9328.00  | 56.00     | 71.13     | 67.15        | 71.13     | 0.000023   | 1.31           | 30316,44     | 9632.87   | 0.06                                    |
| Average Services  |                     |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 233824              | 2982.00  | 53.37     | 64.94     | 57.52        | 65.10     | 0.000317   | 3.15           | 946.99       | 106.14    | 0.19                                    |
| reach 1   | 233824              | 4760.00  | 53.37     | 67.22     | 58,91        | 67.39     | 0.000320   | 3.49           | 2418.47      | 1565.47   | 0.19                                    |
| reach 1   | 233824              | 6671.00  | 53.37     | 68.45     | 60.20        | 68.56     | 0.000249   | 3.22           | 4807.04      | 2124.19   | 0.17                                    |
| reach 1   | 233824              | 12932.00 | 53.37     | 71.05     | 63.55        | 71.09     | 0.000150   | 2.45           | 11102.37     | 2672.38   | 0.13                                    |
| <b>型量素量的主题</b>  |                     |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 232833              | 2982.00  | 53.37     | 64.68     | 57.15        | 64.81     | 0.000258   | 2.86           | 1041.42      | 116.03    | 0.17                                    |
| reach 1   | 232833              | 4760.00  | 53.37     | 67.00     | 58.46        | 67.11     | 0.000222   | 2.95           | 3348.00      | 2260.45   | 0.16                                    |
| reach 1   | 232833              | 6671.00  | 53.37     | 68.30     | 59.65        | 68.36     | 0.000140   | 2.48           | 6605.94      | 2627.19   | 0.13                                    |
| reach 1   | 232833              | 12932.00 | 53.37     | 70.95     | 62.75        | 70.98     | 0.000083   | 2.13           | 14214.99     | 3099.89   | 0.10                                    |
| Library world so the  | 36 72 31 74         |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 232775              | 2982.00  | 53.37     | 64.66     | 57.15        | 64.79     | 0.000259   | 2.87           | 1039.62      | 115.97    | 0.17                                    |
| reach 1   | 232775              | 4760.00  | 53.37     | 66.98     | 58.46        | 67.09     | 0.000225   | 2.97           | 3304.99      |           | 0.16                                    |
| reach 1   | 232775              | 6671.00  | 53.37     | 68.29     | 59.65        | 68.35     | 0.000141   | 2.49           | 6572.46      | 2625.02   | 0.13                                    |
| reach 1   | 232775              | 12932.00 | 53.37     | 70.94     | 62.75        | 70.97     | 0.000083   | 2.14           | 14179.66     | 3099.05   | 0.10                                    |
| 机弹动机 對心   |                     | L        |           |           |              |           |            |                |              |           |   |
| reach 1   | 232000              | 2982.00  | 53.37     | 64.48     | 57.02        | 64.59     | 0.000237   | 2.76           | 1605.29      | 1392.04   | 0.16                                    |
| reach 1   | 232000.             | 4760.00  | 53.37     | 66.95     | 58.30        | 66.97     | 0.000075   | 1.52           | 8164.94      | 3787.99   | 0.09                                    |
| reach 1   | 232000              | 6671.00  | 53.37     | 68.27     | 59.48        | 68.28     | 0.000041   | 1.21           | 13410.16     |           | 0.07                                    |
| reach 1   | 232000              | 12932.00 | 53.37     | 70.92     | 62.59        | 70.92     | 0.000026   | 1.10           | 24647.12     | 4469.26   | 0.06                                    |
| AMERICA CA  |                     |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 230198              | 2982.00  | 52.60     | 64.08     | 56.15        | 64.19     | 0.000216   | 2.67           | 1117.00      |           | 0.15                                    |
| reach 1   | 230198              | 4760.00  | 52.60     |           | 57.39        | 66.82     | 0.000093   | 2.01           | 7555.58      | 5806,87   | 0.10                                    |
| reach 1   | 230198              | 6671.00  | 52.60     | 68.20     | 58,53        | 68.21     | 0.000033   | 1.29           | 16447.26     |           | 0.06                                    |
| reach 1   | 230198              | 12932.00 | 52.60     | 70.89     | 61.56        | 70.89     | 0.000016   | 0.93           | 33359.13     | 6300.00   | 0.04                                    |
|   | E A LESS CO.        |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 230130              | 2982.00  | 52.60     | 64.05     | 56.15        | 64.16     | 0.000217   | 2.68           | 1114.28      | 120.17    | 0.15                                    |
| reach 1   | 230130              | 4760.00  | 52.60     | 66.77     | 57.39        | 66.81     | 0.000094   | 2.02           | 7490.06      |           | 0.11                                    |
| reach 1   | 230130              | 6671.00  | 52.60     | 68.20     | 58.53        | 68.21     | 0.000033   | 1.29           | 16421.65     |           | 0.06                                    |
| reach 1   | 230130              | 12932.00 | 52.60     | 70.89     | 61.56        | 70.89     | 0.000016   | 0.93           | 33331.35     | 6300.00   | 0.04                                    |
| What has a street   | thursday and the    |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 230000.             | 2982.00  | 52.60     | 64.01     | 56.24        | 64.13     | 0.000236   | 2.78           | 1073.69      |           | 0.16                                    |
| reach 1   | 230000              | 4760.00  |           |           | 57.51        | 66.79     | 0.000115   | 1.97           | 6985.53      |           |   |
| reach 1   | 230000.             | 6671.00  |           |           | 58,70        | 68.20     | 0.000038   | 1.22           | 15754.62     |           | 0.07                                    |
| reach 1   | 230000              | 12932.00 | 52.60     | 70.87     | 61.80        | 70.88     | 0.000017   | 0.93           | 32283.24     | 6187.75   | 0.05                                    |
| 1.50-1.83 3:50  |                     |          |           |           |              |           |            |                |              |           |   |
| reach 1   | 228819              | 2982.00  | 52.61     | 63.77     | 55.99        | 63.87     | 0.000204   | 2.58           | 1154.86      |           | 0.15                                    |
| reach 1   | 228819              | 4760.00  | 52.61     | 66.50     | 57.17        | 66.61     | 0.000192   | 2.83           | 2947.39      |           |   |
| reach 1   | 228819              | 6671.00  |           | 68.10     | 58.28        |           | 0.000082   | 1.97           | 10079.13     |           |   |
| reach 1   | 228819              | 12932.00 | 52.61     | 70.84     | 61.20        | 70.85     | 0.000032   | 1.22           | 25309.02     | 5631.75   | 0.06                                    |
| e e Milia de parez de la comencia de | 1994 (1.7 m) / A    | 0000     |           |           |              |           | 0.00000    |                | 050.00       | 400.50    | ļ                                       |
| reach 1   | 227602              | 2982.00  |           | 63.40     |              | 63.56     |            | 3.13           | 952.66       |           |   |
| reach 1   | 227602              | 4760.00  |           |           | 57.73        |           |            |                | 1534.81      |           |   |
| reach 1   | 227602              | 6671.00  |           |           |              |           |            | 2.24           |              |           |   |
| reach 1   | 227602              | 12932.00 | 52.61     | 70.80     | 62.12        | 70.80     | 0.000033   | 1.12           | 26450.03     | 6286.70   | 0.06                                    |
|   | oriona.             | 0000 00  | 50.44     | 00.00     | 50.10        |           | 0.000015   |                | 005.70       | 400.00    |   |
| reach 1   | 226000              | 2982.00  |           | 62.86     | 56.13        |           |            | 3.19           |              |           |   |
| reach 1   | 226000.             | 4760.00  |           | 65.44     |              |           |            |                |              |           |   |
| reach 1   | 226000              | 6671.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 226000              | 12932.00 | 52.41     | 70.49     | 61.76        | 70.66     | 0.000398   | 4.10           | 6711.71      | 2227.88   | 0.22                                    |
| and the second  | an en we            | 0000.00  |           |           |              |           | 0.00000    |                | 4000 5       |           |   |
| reach 1   | 224978              | 2982.00  |           |           |              |           |            | 2.91           |              |           |   |
| reach 1   | 224978              | 4760.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 224978              | 6671.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 224978              | 12932.00 | 52.41     | 69.77     | 61.04        | 70.15     | 0.000553   | 5,38           | 4111,21      | 1467.28   | 0.26                                    |
|   | Alican-             | 0000     |           |           |              |           | 0.00000    |                | 1001 0       |           | ļ — — — — — — — — — — — — — — — — — — — |
| reach 1   | 224934              | 2982.00  |           |           |              |           |            | 2.92           |              |           |   |
| reach 1   | 224934              | 4760.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 224934              | 6671.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 224934              | 12932.00 | 52.41     | 69.74     | 61.04        | 70.12     | 0.000562   | 5.41           | 4064.50      | 1458.84   | 0.26                                    |
|   |                     |          |           |           | <del> </del> |           |            | <del> </del> _ | <del> </del> |           |   |
| reach 1   | 223155              | 2982.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 223155              | 4760.00  |           |           |              |           |            |                |              |           |   |
| reach 1   | 223155              | 6671.00  | 52.35     | 65.91     | 58.29        | 66.15     | 0.000546   | i  4.13        | 2003.93      | 462.68    | 0.25                                    |

| 50 4 5 5 5 6 7                          | River Sta  | Q Total                        | Min Ch El | W.S. Elev      | Crit W.S.      | E.G. Elev | E.G. Slope     | Vel Chril | Flow Area | Top Width                     | Froude # Chl |
|---|--|--------------------------------|-----------|----------------|----------------|-----------|----------------|-----------|-----------|-------------------------------|--------------|
| each 1                                  | 223155   | (cfs)<br>12932.00              | (ft)      | (ft)           | (ft)           | (ft)      | (ft/ft)        | (ft/s)    | (sq ft)   | (ft)                          | <u> </u>     |
| 00/31-1                                 | 223 100  | 12932.00                       | 52.35     | 58.64          | 61.29          | 68.96     | 0.000734       | 5.05      | 3629.05   | 915.74                        | 0.29         |
| reach 1                                 | 222000.  | 2982.00                        | 52.03     | 61,38          | 55.07          | 64.50     | 0.000450       | 2.45      | 205.00    |                               |              |
| reach 1                                 | 222000.  | 4760.00                        | 52.03     | 63.62          | 55.67          | 61.56     | 0.000456       | 3.45      | 865.09    | 112.41                        | 0.22         |
| reach 1                                 | 222000.  | 6671.00                        | 52.03     |                | 56.92          | 63.88     | 0.000507       | 4.10      | 1391.08   | 553.56                        | 0.24         |
| reach 1                                 | 222000   | 12932.00                       | 52.03     | 65.31<br>68.20 | 58.07          | 65.48     | 0.000577       | 3.78      | 2781.78   | 1031.39                       | 0.25         |
|   | 7, 1811  | 12532.00                       | 52.03     | 56.20          | 61.10          | 68.32     | 0.000369       | 3.55      | 6395.44   | 1449.61                       | 0.20         |
| reach 1                                 | 220735   | 2982.00                        | 51.94     | 60.70          | 55 50          | 60.04     | 0.000500       | 2.70      | 700.00    | 444.00                        |              |
| reach 1                                 | 220735   | 4760.00                        | 51.94     | 62.81          | 55.56<br>56.82 | 60.91     | 0.000580       | 3.73      | 799.92    | 111.03                        | 0.24         |
| reach 1                                 | 220735   | 6671.00                        | 51.94     | 64.08          | 57.98          | 63.13     | 0.000682       | 4.56      | 1044.12   | 120.56                        | 0.27         |
| reach 1                                 | 220735   | 12932.00                       |           |                |                | 64.56     | 0.000896       | 5.55      | 1201.23   | 126.31                        | 0.32         |
| 190UT 1                                 | 220130   | 12932.00                       | 51.94     | 66.77          | 61,01          | 67.43     | 0.001571       | 7.01      | 3129.74   | 1735.80                       | 0.42         |
| reach 1                                 | 220633   | 2002.00                        | 51.04     | 60.60          | 55.50          |           | 0.000000       | 0.70      | 707.00    |                               |              |
|   |  | 2982.00                        | 51.94     | 60.63          | 55.56          | 60.85     | 0.000595       | 3.76      | 792.80    | 110.74                        | 0.25         |
| reach.1                                 | 220633   | 4760.00                        | 51.94     | 62.73          | 56.82          | 63.06     | 0.000700       | 4.60      | 1034.86   | 120.21                        | 0.28         |
| reach 1                                 | 220833   | 6671.00                        | 51.94     | 63.97          | 57.98          | 64.46     | 0.000925       | 5.62      | 1188.02   | 125.83                        | 0.32         |
| reach 1                                 | 220633   | 12932.00                       | 51.94     | 66.29          | 61.02          | 67.22     | 0.001975       | 8.01      | 2368.04   | 1452.48                       | 0.47         |
| and the state of the state of           | 10177  |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 220295   | 2982.00                        | 51.84     | 60.47          | 55.23          | 60.66     | 0.000498       | 3.49      | 854.50    | 116.84                        | 0.23         |
| reach 1                                 | 220295   | 4760.00                        | 51.84     | 62.54          | 56.40          | 62.83     | 0.000595       | 4.31      | 1104.93   | 125.23                        | 0.26         |
| reach 1                                 | 220295   | 6671.00                        | 51.84     | 63,73          | 57.48          | 64.16     | 0.000793       | 5.28      | 1362.37   | 445.84                        | 0.30         |
| reach 1                                 | 220295   | 12932.00                       | 51.84     | 66.22          | 60.39          | 66.59     | 0.000984       | 5.70      | 4413.74   | 1939.91                       | 0.33         |
| A CONTRACTOR                            | 1 4 4 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4  |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 219330   | 2982.00                        | 51.58     | 60.15          | 54.49          | 60.27     | 0.000303       | 2.76      | 1079.30   | 145.42                        | 0.18         |
| reach 1                                 | 219330   | 4760.00                        | 51.58     | 62.17          | 55.49          | 62.35     | 0.000368       | 3.45      | 1380.88   | 153.73                        | 0.20         |
| reach 1                                 | 219330   | 6671.00                        | 51.58     | 63.21          | 56.41          | 63.50     | 0.000518       | 4.32      | 1543.79   | 158.04                        | 0.24         |
| reach 1                                 | 219330   | 12932.00                       | 51.58     | 65.07          | 58.89          | 65.64     | 0.000948       | 6.36      | 3129.79   | 1420.71                       | 0.34         |
| <u> </u>                                | of the Villa   |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 218000   | 2982.00                        | 51.24     | 59.77          | 53.94          | 59.88     | 0.000273       | 2.66      | 1121.65   | 147.79                        | 0.17         |
| reach 1                                 | 218000.  | 4760.00                        | 51.24     | 61.70          | 54.92          | 61.87     | 0.000346       | 3.37      | 1413.07   | 155.16                        | 0.20         |
| reach 1                                 | 218000.  | 6671.00                        | 51.24     | 62.62          | 55.82          | 62.85     | 0.000443       | 4.00      | 2451.54   | 1526.14                       | 0.23         |
| reach 1                                 | 218000.  | 12932.00                       | 51.24     | 64.46          | 58.25          | 64.68     | 0.000505       | 4.59      | 5956.26   | 2392.05                       | 0.24         |
| 17 443 1124                             | is warning and   |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 216808   | 2982.00                        | 51.24     | 59.26          | 54.40          | 59.44     | 0.000516       | 3.40      | 877.77    | 129.68                        | 0.23         |
| reach 1                                 | 216808   | 4760.00                        | 51.24     | 61.13          | 55.51          | 61.36     | 0.000548       | 3.94      | 1830.54   | 1649.82                       | 0.24         |
| reach 1                                 | 215908   | 6671.00                        | 51.24     | 62.16          | 56,53          | 62.32     | 0.000435       | 3.72      | 3939.59   | 2258.60                       | 0.22         |
| reach 1                                 | 216808   | 12932.00                       | 51.24     | 64.14          | 61.73          | 64.22     | 0.000305       | 3.33      | 9370.38   | 3146.41                       | 0.19         |
| 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | and the state of t |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 216752   | 2982.00                        | 51.24     | 59.23          | 54.40          | 59.41     | 0.000523       | 3.41      | 873.65    | 129.52                        | 0.23         |
| reach 1                                 | 218752   | 4760.00                        | 51.24     | 61.09          | 55.51          | 61.33     | 0.000564       | 3.99      | 1765.60   | 1615.36                       | 0.25         |
| reach 1                                 | 216752   | 6671.00                        | 51.24     | 62.13          | 56.53          | 62.29     | 0.000450       | 3.77      | 3962.80   | 2247.66                       | 0.22         |
| reach 1                                 | 216752   | 12932.00                       | 51.24     | 64.12          | 61.75          | 64.20     | 0.000310       | 3.35      | 9310.38   | 3140.73                       | 0.19         |
| - 48                                    | The state of the second second   |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 218000.  | 2982.00                        | 51.25     | 58.69          | 54.46          | 58,94     | 0.000745       | 3.99      | 747.20    | 112.83                        | 0.27         |
| reach1                                  | 216000.  | 4760.00                        | 51.25     | 60.59          | 55.60          | 60.86     | 0.000695       | 4.40      | 1880.12   | 1711.17                       | 0.27         |
| reach 1                                 | 218000   | 6671.00                        | 51.25     | 61.83          | 56.68          | 61.95     | 0.000431       | 3.58      | 4206.77   | 2012.02                       | 0.22         |
| reach 1                                 | 216000.  | 12932.00                       | 51.25     | 63.90          |                |           | 0.000332       | 2.90      | 8881.52   | 2524.00                       | 0.19         |
|   | 1 27 2021  |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 214269   | 2982.00                        | 51.25     | 57.69          | 53,69          | 57.84     | 0.000520       | 3.13      | 951.78    | 160.36                        | 0.23         |
| reach 1                                 | 214289   | 4760.00                        | 51.25     | 59.54          | 54.56          |           | 0.000560       | 3.79      | 1276.01   | 438.83                        | 0.24         |
| reach 1                                 | 214269   | 6671.00                        | 51.25     | 60.97          | 55.39          |           | 0.000483       | 3.87      | 2733.27   | 1262.65                       | 0.23         |
| reach 1                                 | 214289   | 12932.00                       | 51.25     |                |                |           | 0.000447       | 4.19      | 5682.20   | 1509.77                       | 0.23         |
|   |  |                                |           | 25,,0          |                |           |                |           |           |                               |              |
| reach 1                                 | 212822   | 2982.00                        | 51.25     | 55.44          | 54.24          | 56.14     | 0.004207       | 6.74      | 442.54    | 113.43                        | 0.60         |
| reach 1                                 | 212822   | 4760.00                        | 51.25     | 57.31          | 55.33          |           |                | 7.19      | 661.82    | 120.54                        |              |
| reach 1                                 | 212822   | 6671.00                        | 51.25     |                |                |           |                | 7.15      |           | 356.79                        |              |
| reach 1                                 | 212822   | 12932.00                       | 51.25     |                |                |           |                | 9.46      |           | 773.74                        |              |
|   |  |                                | 31.20     | 50.50          |                |           | 2,000,1        |           | 2.21.04   |                               | 0.30         |
| reach 1                                 | 212818   | Inline Weir                    |           |                |                |           | <del>   </del> |           |           |                               | <del></del>  |
|   | 2 120 10   |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 212769   | 2982.00                        | 44.29     | 55.43          | 47.98          | 55.55     | 0.000250       | 2.83      | 1054.65   | 116.70                        | 0.17         |
| reach f                                 | 212789   | 4760.00                        | 44.29     |                |                |           |                | 3.57      | 1651.69   | 540.71                        |              |
| reach 1                                 | 212769   | 6671.00                        | 44.29     |                |                |           |                | 3.96      | 2456.17   | 630.68                        |              |
| reach 1                                 | 212769   | 12932.00                       | 44.29     |                |                | +         |                | 5.24      | 3947.14   | 756.00                        |              |
| - Cauri                                 | 212709   | 12902.00                       | 44.29     | 50.90          | 33,39          | 01.22     | 0.000332       | 5.24      | 3547.14   | 750.00                        | 0.20         |
| mach 1                                  |  | 2002.00                        | 42.00     | 55.24          | 40 22          | EE 97     | 0.000424       | 3.00      | 1859.68   | 062.63                        | 0.12         |
| reach 1                                 | 211780   | 2982.00                        | 43.36     |                |                |           | 0.000121       | 2.06      |           | 963.63                        |              |
| reach 1                                 | 211780   | 4760.00                        | 43.36     | 57.22          |                |           |                |           |           | 1765.73                       |              |
| reach 1                                 | 211780   | 6671.00                        | 43.36     | 58.67          |                |           |                | 1.88      |           | 2343.94                       |              |
| reach 1                                 | 211780   | 12932.00                       | 43.36     | 60.90          | 51.43          | 60.93     | 0.000091       | 1.92      | 13842.12  | 3279.41                       | 0.10         |
|   | 1045-15  |                                |           |                |                |           |                |           |           |                               |              |
|   | 210419   | 2982.00                        | 43.36     | 55.05          | 47.05          |           |                | 2.59      |           | 1534.63                       |              |
|   |  |                                |           |                |                |           |                |           |           |                               |              |
| reach 1                                 | 210419   | 4760.00                        | 43.36     |                |                |           |                |           | 6323.73   | 2841.35                       |              |
|   |  | 4760.00<br>6671.00<br>12932.00 | 43.36     | 58.60          | 49.51          | 58.61     | 0.000063       | 1.24      | 11478.48  | 2841.35<br>4049.63<br>4588.39 | 0.08         |

| HEC-RAS Pla<br>Reach   | River Sta   | Q Total             | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope           | Vel Chril    | Flow Area          | Top Width                               | Froude # Chl |
|------------------------|-------------|---------------------|----------------|----------------|----------------|----------------|----------------------|--------------|--------------------|---|--------------|
|                        |             | (cfs)               | (ft)           | (ft)           | (N)            | (ft)           | (ft/ft)              | (ft/s)       | (sq:ft)            | (ft)                                    |              |
| reach 1                | 209041      | 2982.00             | 43.31          | 54.76          | 46.86          | 54.87          | 0.000211             | 2.63         | 1135.14            | 123.88                                  | 0.15         |
| reach 1                | 209041      | 4760.00             | 43.31          | 56.73          | 48.09          | 56.91          | 0.000298             | 3.41         | 1519.67            | 706.93                                  | 0.19         |
| reach 1                | 209041      | 6671.00             | 43.31          | 58.29          | 49.23          | 58.45          | 0.000283             | 3.53         | 3468.24            | 1750.83                                 | 0.18         |
| reach1                 | 209041      | 12932.00            | 43.31          | 60.69          | 52.22          | 60.77          | 0.000185             | 3.08         | 11385.48           | 4854.52                                 | 0.15         |
| reach 1                | 200000      | 2982.00             | 43.31          | 54.53          | 46.81          | 54.64          | 0.000223             | 2.70         | 1104.03            | 120.28                                  | 0.16         |
| reach 1                | 208000      | 4760.00             | 43.31          | 56.39          | 48.03          | 56.59          | 0.000329             | 3.56         | 1350.47            | 237.82                                  | 0.19         |
| reach 1                | 208000.     | 6671.00             | 43.31          | 57.85          | 49.16          | 58.08          | 0.000539             | 3.94         | 2617.26            | 1878.64                                 | 0.19         |
| reach 1                | 208000      | 12932.00            | 43.31          | 60.57          | 52.18          | 60.60          | 0.000188             | 2.20         | 14000.40           |   | 0.24         |
|                        |             |                     |                |                |                |                | 0.000100             | 2.20         | 14000,40           | 0247.31                                 | 0.14         |
| reach 1                | 207786      | 2982.00             | 43.31          | 54.49          | 46.84          | 54.60          | 0.000223             | 2.64         | 1131.08            | 129,07                                  | 0.16         |
| reach 1                | 207786      | 4760.00             | 43.31          | 56.34          | 48.08          | 56.52          | 0.000331             | 3.43         | 1495.92            | 668.25                                  | 0.19         |
| reach 1                | 207786      | 6671.00             | 43.31          | 57.81          | 49.21          | 57.97          | 0.000327             | 3.46         | 3824.83            | 2958.01                                 | 0.19         |
| reach 1                | 207786      | 12932.00            | 43.31          | 60.55          | 52.18          | 60.57          | 0.000121             | 1.82         | 16515.56           | 5954.41                                 | 0.11         |
|                        |             |                     |                |                |                |                |                      |              |                    |   |              |
| reach 1                | 207730      | 2982.00             | 43.31          | 54.48          | 46.84          | 54.59          | 0.000224             | 2.64         | 1129.41            | 129.00                                  | 0.16         |
| reach 1                | 207730      | 4760.00             | 43.31          | 56.31          | 48.08          | 56.49          | 0.000334             | 3.45         | 1477.33            | 655.42                                  | 0.19         |
| reach 1                | 207730      | 6671.00             | 43.31          | 57.80          | 49.21          | 57.96          | 0.000328             | 3.47         | 3796.68            | 2878.98                                 | 0.19         |
| reach 1                | 207730      | 12932.00            | 43.31          | 60.54          | 52.18          | 60.56          | 0.000122             | 1.83         | 16474.24           | 5948.10                                 | 0.11         |
|                        |             | 2000 00             |                |                |                |                |                      |              |                    |   |              |
| reach 1                | 208000.     | 2982.00             | 43.32          | 54.18          | 46.71          | 54.25          | 0.000166             | 2.30         | 2655.64            | 2461.48                                 | 0.14         |
| reach 1                | 206000.     | 4760.00             | 43.32          | 56.27          | 47.91          | 56.28          | 0.000045             | 1.22         | 10232.20           | 3968.75                                 | 0.07         |
| reach 1<br>reach 1     | 206000      | 6671.00<br>12932.00 | 43,32<br>43.32 | 57.81<br>60.48 | 49.01<br>51.94 | 57.81          | 0.000023             | 0.91         | 16381.33           |   | 0.05         |
| 1984                   | 20000       | 12932.00            | 43.32          | 60.48          | 51.94          | 60.49          | 0.000018             | 0.85         | 27822.20           | 4424.58                                 | 0.05         |
| reach 1                | 204471      | 2982.00             | 43.17          | 53.79          | 46.70          | 53.92          | 0.000276             | 2.90         | 1027.79            | 118.25                                  | 0.47         |
| reach 1                | 204471      | 4760.00             | 43.17          | 55.89          | 47.94          | 56.11          | 0.000276             | 3.70         | 1285.59            | 126.58                                  | 0.17         |
| reach 1                | 204471      | 6671.00             | 43.17          | 57.41          | 49.06          | 57.69          | 0.000537             | 4.29         | 1860,72            | 653.71                                  | 0.20         |
| reach 1                | 204471      | 12932.00            | 43.17          | 60.14          | 52.09          | 60.39          | 0.000592             | 4.61         | 5166.49            | 1880.81                                 | 0.26         |
|                        |             |                     |                |                |                |                | 0.00002              | 7.01         | 5100.45            | 1000.01                                 | 0.20         |
| reach 1                | 203192      | 2982.00             | 43.15          | 53.54          | 46.10          | 53.63          | 0.000174             | 2.31         | 1293.22            | 150.41                                  | 0.14         |
| reach 1                | 203192      | 4760.00             | 43.15          | 55.58          | 47.15          | 55.71          | 0.000230             | 2.92         | 1686,77            | 201.26                                  | 0.16         |
| reach 1                | 203192      | 6671.00             | 43.15          | 56.96          | 48.13          | 57.16          | 0.000306             | 3.57         | 1983,99            | 271.53                                  | 0.19         |
| reach 1                | 203192      | 12932.00            | 43.15          | 59.27          | 50.72          | 59.67          | 0.000569             | 5.28         | 3367.76            | 902.45                                  | 0.27         |
|                        |             |                     |                |                |                |                |                      |              |                    |   |              |
| reach 1                | 202000.     | 2982.00             | 42.72          | 53.30          | 45.86          | 53.40          | 0.000203             | 2.55         | 1171.35            | 129.94                                  | 0.15         |
| reach 1                | 202000      | 4760.00             | 42.72          | 55.23          | 46.97          | 55.41          | 0.000287             | 3,33         | 1470.53            | 412.83                                  | 0.18         |
| reach 1                | 202000.     | 6671.00             | 42.72          | 56.51          | 48.00          | 56.73          | 0.000420             | 3.84         | 2335.50            | 871.83                                  | 0.22         |
| reach 1                | 202000      | 12932.00            | 42.72          | 58.76          | 50.77          | 58.98          | 0.000488             | 4.46         | 5138.66            | 1704.73                                 | 0.24         |
| -2503-450 St. St. N    | Maria de 1  |                     |                |                |                |                |                      |              |                    |   |              |
| reach 1                | 201981      | 2982.00             | 42.72          | 53.29          | 45.87          | 53,39          | 0.000198             | 2.48         | 1200,37            | 136,44                                  | 0.15         |
| reach 1                | 201981      | 4760.00             | 42.72          | 55.22          | 46.97          | 55.38          | 0.000277             | 3.23         | 1499.33            | 333,95                                  | 0.18         |
| reach 1                | 201961      | 6671.00             | 42.72          | 56.50          | 47.99          | 56.71          | 0.000339             | 3.77         | 2451.66            | 1020.34                                 | 0.20         |
| reach 1                | 201961      | 12932.00            | 42.72          | 58.75          | 50.74          | 58.95          | 0.000404             | 4.35         | 5758.61            | 1909.35                                 | 0.22         |
|                        | 401044      | 2982.00             | 40.70          | F2 00          | 45.07          | 50.00          | 0.000400             |              | 4400.45            |   |              |
| reach 1<br>reach 1     | 201917      | 4760.00             | 42.72<br>42.72 | 53.28<br>55.21 | 45.87<br>46.98 | 53.38<br>55.37 | 0.000198<br>0.000278 | 2.49<br>3.24 | 1199.15<br>1495.15 |   | 0.15         |
| reach 1                | 201917      | 6671.00             | 42.72          | 56.48          | 48.00          | 56.69          | 0.000278             | 3.78         | 2434.44            | 327.93<br>1016.13                       | 0.18         |
| reach 1                | 201917      | 12932.00            | 42.72          | 58.73          | 50.74          | 58.94          | 0.000410             | 4.37         | 5717.76            |   | 0.20         |
|                        |             | 12502.00            | 42.72          | - 50.10        |                | 30.54          | 0.000410             | 4.57         | 3/1/./0            | 1307.32                                 | 0.22         |
| reach 1                | 201322      | 2982.00             | 42.52          | 53.16          | 45.65          | 53.26          | 0.000195             | 2.51         | 1187.71            | 130.39                                  | 0.15         |
| reach 1                | 201322      | 4760.00             | 42.52          | 55.04          | 46.75          | 55.21          | 0.000281             | 3.31         | 1438.59            |   | 0.18         |
| reach1                 | 201322      | 6671.00             | 42.52          | 56.20          | 47.79          | 56.47          | 0.000405             | 4.17         | 1599.07            | 1011.19                                 | 0.22         |
| reach 1                | 201322      | 12932.00            | 42.52          | 57.74          | 50.54          | 58.52          | 0.001217             | 7.08         | 1825.55            |   | 0.38         |
| distributed the second |             |                     |                |                |                |                |                      |              |                    |   |              |
| reach 1                | 200878      | 2982.00             | 42.52          | 53.00          | 46.06          | 53.11          | 0.000267             | 2.74         | 1089.68            |   | 0.17         |
| reach 1                | 200876      | 4760.00             | 42.52          | 54.88          | 47.27          | 55.03          | 0.000305             | 3.20         | 2153.32            |   | 0.19         |
| reach 1                | 200676      | 6671.00             | 42.52          | 56.07          | 48.39          | 56.19          | 0.000401             | 3,23         | 3366.40            |   | 0.21         |
| reach 1                | 200676      | 12932.00            | 42.52          | 57.75          | 51.28          | 57.87          | 0.000606             | 3.49         | 5970.99            | 1852.59                                 | 0.25         |
|                        | Tentari Rit |                     |                |                |                |                |                      |              |                    |   |              |
| reach 1                | 200030      | 2982.00             | 42.52          | 52.83          | 45.77          | 52.95          | 0.000247             | 2.75         | 1086.33            |   | 0.16         |
| reach 1                | 200030      | 4760.00             | 42.52          | 54.73          | 46.94          | 54.86          | 0.000258             | 3.09         | 2396.15            |   | 0.17         |
| reach 1                | 200030      | 6671.00             | 42.52          | 56.05          | 48.01          | 56.07          | 0.000074             | 1.76         | 12232.63           |   | 0.09         |
| reach 1                | 200030      | 12932.00            | 42.52          | 57.75          | 50.86          | 57.76          | 0.000051             | 1.58         | 23108.63           | 6506.78                                 | 0.08         |
| reach 1                | 199964      | 2982.00             | 42.52          | 52.81          | 45.77          | 52.02          | 0.000248             | 2.75         | 1004 00            | 404.00                                  |              |
| reach 1                | 199964      | 4760.00             | 42.52          | 52.81<br>54.71 | 45.77<br>46.94 | 52.93<br>54.84 | 0.000248             | 2.75<br>3.10 | 1084.20<br>2380.20 |   | 0.16         |
| reach 1<br>reach 1     | 199964      | 6671.00             | 42.52          | 56.04          | 48.00          | 54.84<br>56.06 | 0.000260             | 1.76         | 12200.53           |   | 0.17         |
| reach 1                | 199964      | 12932.00            | 42.52          | 57.74          | 50.86          | 57.76          | 0.000074             | 1.76         | 23086.37           |   | 0.09         |
| S THE                  | 100004      | 12832.00            | 42.52          | 51.74          | 30.00          | 57.70          | 0.000031             | 1.30         | 23000.37           | 0505.36                                 | 0.08         |
| reach 1                | 198000      | 2982.00             | 42.52          | 52.36          | 45.61          | 52.46          | 0.000224             | 2.59         | 1680.63            | 1307.94                                 | 0.16         |
| reach 1                | 198000.     | 4760.00             | 42.52          | 54.60          | 46.71          | 54.62          | 0.000224             | 1.37         | 10017.67           |   | 0.16         |
|                        | 198000.     | 6671.00             | 42.52          | 55.97          | 47.74          | 55.98          |                      | 1.03         | 19164.30           |   | 0.06         |
| reach 1                |             |                     | 72.04          | 00.07          | 71.17          | 54.50          | 5.500021             | 1.00         | 10104.00           | , | 0.00         |

HFC-RAS Plan: NM Rev Fx (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi River Sta (ft/s) (11/11) (sq ft) (cfa) (ft) (ft) (#) (A) (ft) 1134.37 reach 1 197381 2982.00 42.52 52.19 45.65 52.31 0.000268 2.75 342.12 0.17 42.52 54.55 46.76 54.58 0.000098 1.88 6810.40 3678.33 0.11 reach 1 197381 4760.00 47.79 13464.90 5945.61 reach 1 97381 6671.00 42.52 55.95 55.96 0.000048 1.40 0.08 57.68 1.34 27380.28 0.07 42.52 57.67 50.54 0.000038 8926.46 reach 1 197381 12932.00 52.30 2.75 1130.07 335.91 reach 1 197333 2982.00 42.52 52.18 45.66 0.000269 0.17 197333 4760.00 42.52 54.51 46.77 54.57 0.000149 2 32 5253.13 3572.15 0.13 reach 1 55.94 47.79 55.98 0.000065 1.63 11960.57 5909.32 0.09 reach 1 197333 6671.00 42.52 42.52 57.66 50.54 57.67 0.000046 1.47 25894.90 8926.33 0.07 reach 1 197333 12932.00 51.76 51.90 0.000332 2.98 1002.35 142.84 2982.00 42 53 45.70 0.19 reach 1 198000 196000 4760.00 42.53 54.09 46.82 54.27 0.000348 3.47 1924.58 1772.84 0.20 reacht 1 42.53 55.78 47.86 55.83 0.000167 2.33 7501.10 4212.66 0.14 reach ' 196000 6671.00 42.53 57.56 50.81 57.58 0.000109 1.90 16602.11 6635.06 0.11 reach 1 196000 12932.00 51.29 0.000506 3.50 851.03 117.21 0.23 51.10 45.88 reach:1 194500 2982.00 42.53 4.24 1121.67 126.51 0.25 reach t 194500 4760 00 42 53 53.32 47.06 53.60 0.000573 reach 1 194500 6671.00 42.53 55.03 48.15 55.36 0.000600 4.71 2338.93 3339.52 0.26 42.53 57.29 51.06 57.35 0.000237 2.86 11777.09 4670.94 0.16 reach 1 194500 12932.00 3.52 846.83 194434 42.53 51.06 45.88 51.25 0.000514 117.06 0.23 2982.00 reach 1 reach 1 184434 4760.00 42.53 53.28 47.06 53.56 0.000581 4.26 1116.48 126.34 0.25 48.15 55.32 4.80 2150.00 3082.48 mach 1 194434 6671.00 42.53 54.98 0.000625 0.27 reach 1 194434 12932.00 42.53 57.28 51.06 57.33 0.000241 2.88 11697.62 4667.16 0.16 2982.00 42.44 50.84 45.75 51.03 0.000511 3.48 857.55 120.60 0.23 reach 1 194000 4.20 194000 4760.00 42.44 53.03 46.92 53.30 0.000575 1132.02 130.13 0.25 reach 1 55.05 0.000444 3.68 4100.76 3684.96 0.22 194000 6671.00 42.44 54.89 47.98 reach 1 57.24 0.000146 2.07 14290.38 4489.56 0.13 reach 1 194000 12932.00 42.44 57.22 50.82 reach 1 192000 2982.00 42.24 49.55 45.43 49.79 0.000763 3 97 751 75 117.30 0.28 46.56 51.93 0.000829 4.77 1000.95 148.44 0.30 reach 1 192000 4760.00 42.24 51.58 42.24 53.47 47.61 53.82 0.000874 4.93 1902.56 1039.32 0.31 6671.00 reach t 192000 50.42 56.91 0.000193 2.59 10681.12 2899.84 0.15 reach 1 192000 12932.00 42.24 56.86 190533 2982.00 42.24 46 68 45.50 47 48 0.004545 7.20 413.95 100.87 0.63 reach 1 46.68 49.89 7,11 669.67 109.40 0.51 190533 4760.00 42.24 49.11 0.002629 reach 1 42.24 50.83 47.74 51.76 0.002400 7.73 863.31 115.56 0.50 6671.00 reach 1 190533 1347.21 9.60 5210.66 0.59 54.61 50.64 56.04 0.003189 reach 1 190533 12932.00 42.24 190528 Inline Wei reach 1 46.67 41.63 46,89 0.000571 3.73 799.89 108.70 0.24 190613 2982.00 38.26 reach 1 4760.00 49.10 42.83 49.40 0.000607 4.43 1073.64 116.80 0.26 190513 38.26 reach 1 43,96 51.24 0.000710 5.21 1279.60 122.04 0.28 38.26 50.82 reach 1 190513 6671.00 5214.35 0.39 46.93 55.41 0.001337 7.21 1793.68 reach:1 190513 12932 00 38.26 54.60 reach 1 190000 2982.00 38.26 46 41 41 47 AR RO 0.000528 3.50 852 87 122 05 0.23 42.60 49.10 0.000539 4.10 1161.93 132 37 0.24 190000 4760.00 38.26 48.84 reach:1 50.88 4.79 1391.45 3900.44 0.27 38.26 50.53 43.67 0.000625 6671.00 190000 reach 1 54.73 0.001175 6.69 1932.61 5392.30 0.37 reach 1 190000 12932.00 38.26 54.04 45.01 3.74 796.35 126.85 0.26 reach 1 189032 2982.00 38.26 45.80 41.51 0.000690 38.26 48.25 42.65 4B 53 0.000642 4 23 1124 RG 140 72 0.26 reach 1 189032 4760.00 189032 43.67 50.23 0.000734 4.91 1357.91 3503.84 0.296671.00 38.26 49.86 reach 1 1829.08 4976.86 0.41 52.69 46.41 53.47 0.001443 7.07 12932.00 38.26 reach 1 189032 45.97 0.000705 3.77 790.77 126.60 0.27 45.75 41.51 reach 1 188975 2982 00 38.26 1119.20 140.49 0.27 4760.00 38 26 48 21 42.65 48.49 0.000651 4.25 reach 1 188975 3443.64 6671.00 38.26 49.81 43 68 50 19 0.000745 4 94 1350 92 0.29 reach 1 188975 188975 12932.00 38.26 52.58 46.41 53.38 0.001475 7.15 1808 18 4967.89 0.41 reach 1 2.66 869.81 158.40 0.20 45.29 41.06 45.40 0.000424 reach 1 188000 2312.00 37.63 2.64 1308.44 173.20 0.17 41.78 48.02 47.91 0.000275 reach 1 188000 3448.00 37.63 0.18 1589.98 1724.87 reach 1 188000 4800.00 37.63 49.51 42.49 49.65 0.000291 3.02 11140.00 37.63 51.76 45.14 52 24 0.000777 5.57 1999.93 5437.72 0.30 reach 1 188000 3.27 708.04 113.36 0.23 37.63 45.16 40.76 45.33 0.000534 2312.00 reach 1 187869 124.44 0.21 47.97 0.000402 3.38 1020.22 reach t 187869 3448.00 37.63 47.79 41.59 1220.06 131.03 0.23 42.45 49.60 0.000461 3.93 reach 1 187869 4800 00 37.63 49.35 1464.00 0.41 7.61 138.65 reach 1 11140.00 37.63 51.16 45.65 52.06 0.001467 110.42 0.16 34.85 45.15 45.25 0.000235 2.56 902.68 reach 1 187694 2312 00 38.47

HEC-RAS Plan: NM Rev Fx (Continued) River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Froude # Chi Flow Area (cfs) (ft) (ff)(ft) (ft/ft) (fVs) (sqft) (11) reach 1 187694 3448.00 34.85 47.77 39.35 47.90 0.000226 2.86 1205.02 120,19 0.16 each 1 187694 4800.00 34.85 49 33 40.25 49.52 0.000286 3.44 1396.86 126.05 0.18 187694 reach 1 11140.00 34.85 51.07 43.61 51.80 0.001007 6.87 1621.41 132.52 0.35 reach f 186000 2312.00 34.04 44.88 37.08 44.95 0.000136 2.05 1129 47 129 28 0.12 reach 1 186000 3448.00 34.04 47.46 37.91 47.54 0.000184 2.32 1488.36 178.21 0.14 186000 reach 1 4800.00 34.04 49 21 38 78 49.23 0.000079 1.57 7479.00 4127.32 0.09 186000 reach 1 11140.00 34.04 51.29 41.93 51.31 0.000064 1.56 16099.34 4159.86 0.09 reach 1 184000. 2312,00 34.09 44.63 36.80 44.69 0.000130 2.03 1141 41 127 BB 0.12 reach 1 184000. 3448.00 34.09 47.14 37.60 47.23 0.000136 2 34 1473.71 136.63 0.13 184000. reach 1 4800.00 34.09 48.88 38.44 49.00 0.000184 2.73 2312.51 2776.70 0.15 184000 reach 1 11140.00 34.09 51.08 41.54 51.12 0.000155 2.43 11225.34 4106.14 0.13 reach 1 182000 2312.00 33.49 44.37 36.24 44.43 0.000123 2.00 1158.84 127.27 0.12 reach 1 182000 3448.00 33.49 46.87 37.06 46.95 0.000132 2 32 1488 38 136.62 0.12 each 1 182000 4800.00 33.49 48.65 37.91 48.69 0.000110 196 5829.80 3979.21 0.11 182000 reach 1 11140.00 33,49 50.89 41.07 50.91 0.000074 1.69 15211.95 4128.80 0.09 180000 reach 1 2312.00 33,44 44.11 36.26 44.18 0.000136 2.08 1113.97 124,65 0.12 reach 1 180000 3448.00 33.44 46.59 37.09 46.68 0.000145 2.40 134,04 1434.61 0.13 reach 1 180000 4800.00 33.44 48.30 37.95 0.000167 48.42 2273 28 2.76 2769 69 0 14 180000. 11140.00 reach 1 33.44 50.65 41.10 50.69 0.000152 2 41 11385.73 4118.49 0.13 178120 reach 1 2312.00 33 43 43.73 36.85 43.84 0.000246 2.57 900.71 115.30 0.16 reach 1 178120 3448.00 33,43 46.20 37.82 46.33 0.000243 2.87 1201.31 128.53 0.17 reach t 178120 4800.00 33.43 47.82 38.81 48.00 0.000298 3.39 1416.83 137.24 0.19 reach 1 178120 11140.00 33.43 50.26 42.32 0.000239 50,36 3.31 9263.76 4109.68 0.17 reach 1 178059 2312.00 33.43 43.72 36 85 43.83 0.000247 2 57 899.67 115.25 0.16 reach 1 178059 3448.00 33 43 46 19 37.82 46.32 0.000244 2.87 1200.19 128.49 0.17 reach 1 178059 4800.00 33.43 47.81 38.81 47.99 0.000298 3.39 1415.34 137.18 0.19 178059 reach 1 11140.00 33.43 50.25 42.33 50.34 0.000243 3.33 9197,51 4108.96 0.17 reach 1 178000. 2312.00 43.73 36.31 33.28 43.81 0.000169 2.25 1029.20 120.26 0.14 reach 1 178000 3448 00 33.28 46.20 37.18 46.30 0.000176 2.58 1337.87 130.04 0.14 reach 1 178000 4800.00 33.28 47.82 38.07 47.96 0.000221 3.09 1553.79 136.46 0.16 reach 1 178000. 11140.00 33.28 50.27 41.33 50.31 0.000164 2.34 11506.46 4170.22 0.14 reach 1 176000 2312.00 33.44 43.37 36.36 43.45 2.31 0.000190 1000 26 123 25 0.14 reach 1 76000 3448.00 45.83 33.44 37.22 45.93 0.000191 2.62 1317.04 134.25 0.15 reach 1 176000 4800.00 33 44 47.31 38.11 47.46 0.000289 3.15 1525.85 161.65 0.18 reach 1 176000. 11140.00 33.44 49.93 41.35 49.98 0.000168 2.51 11464.48 5025.19 0.14 reach 1 174282 2312.00 32.56 43.10 35.52 43.17 0.000136 2.06 126.50 1122.69 0.12 reach 1 174282 3448.00 32.56 45.56 36.32 45 64 0.000143 2.39 1442 43 134.29 0.13 reach 1 174282 4800.00 32.56 46.89 37.14 47.02 0.000217 2.95 1626.66 150.95 0.16 reach 1 174282 11140 00 32.56 49.39 40.19 49.57 0.000408 3.95 7494.36 6768.33 0.22 reach 1 173031 2312.00 32.46 42.90 35.42 42.98 0.000167 2.23 1034.75 121.41 0.13 reach 1 173031 3448.00 32.46 45.34 36.29 45.45 0.000176 2.56 1344.72 132.61 0.14 reach 1 173031 4800.00 32,46 46.58 37.20 46.73 0.000244 3 17 1511.91 138 25 0.17 reach 1 173031 11140.00 32.46 49.00 40.48 49.13 0.000280 3.70 9686.19 7833.67 0.18 reach 1: 172979 2312.00 32.46 42.89 35.42 42.97 0.000168 2.24 1033.67 121.37 0.14 reach 1 172979 3448.00 32.46 45.33 36.29 45.44 0.000176 2.57 1343.48 132.57 0.14 reach 1 172979 4800.00 32.46 46.56 37.20 46.72 0.000245 3.18 1510.09 138.19 0.17 172979 11140.00 reach 1 32.46 48.97 40.48 0.000289 49.11 3.75 9499.25 7833.01 0.19 reach 1 172000 2312 00 32 46 42 74 35 32 42.81 0.000161 2.20 1052.82 122.78 0.13 reach 1 172000. 3448.00 32.46 45.17 36.16 45.27 0.000167 2.53 1361.81 131.25 0.14 172000. reach 1 4800.00 32.46 46.33 37.03 46.49 0.000237 3.16 135.29 1516.73 0.17 reach 1 172000 11140.00 32.46 48.76 40.25 48.83 0.000245 2.98 11386 82 7729.58 0.17 reach 1 170000 2312.00 32.45 42.42 35.14 42.50 0.000153 2 14 1078 37 125.20 0.13 reach 1 170000 3448 00 32.45 44.84 35.92 44.94 0.000161 2.48 1392.78 134.85 0.14 reach 1 170000 4800.00 32.45 45.82 36.76 45.97 0.000277 3.13 1535.90 157.69 0.18 each 1 170000 11140.00 32.45 47.25 39.81 47.86 0.001104 6,27 1777.45 182.10 0.35 168000 reach 1 2312.00 32,50 42.08 35.27 42.16 0.000187 2 28 1013 87 125 39 0.14 168000 reach 1 3448 00 32 50 44 48 36.07 44.58 0.000199 2.55 1655.08 1133.06 0.15

mach 1

reach 1

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168000

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11140.00

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36.93

40.02

45.43

46.72

0.000240

0.000274

2.58

2.93

4198.27

9575.83

3997.49

4508.30

0.16

HEC-RAS Plan: NM Rev Ex (Continued) W.S. Elev E.G. Elev E.G. Slope Min Ch El Crit W.S. Vel Chrit Flow Area Top Width River Sta O Total Froude # Chi (cfs) (11) (0/0) (11/8) (sq ft) (11) (ft) (ft) (ft) reach:1 167722 2312.00 32.50 42.01 35 33 42.10 0.000209 2.41 961.10 119.12 0.15 reach 1 3448.00 32.50 44.41 36.16 44.52 167722 0.000210 2.73 1369.72 967.78 0.15 37.03 reach 1 167722 4800.00 32.50 45.24 45.36 0.000241 3.04 3518.19 4695,47 0.17 reach 1 167722 46.61 40.22 46.65 11140.00 32.50 0.000256 2.57 12463.74 7450.03 0.16 167842 32.50 41 99 35.33 reach 1 2312 00 42 08 0.000210 2 41 959.03 119.06 0.15 reach 1 167642 3448.00 32.50 44.39 36.17 44.51 0.000211 2.74 1355.05 917.54 0.15 reach 1 167642 4800.00 32.50 45.20 37.04 45.33 0.000250 3.09 3364.50 4580.12 0.17 reach 1 167642 11140.00 32.50 46.58 40.22 46.63 0.000263 2.65 12252.92 7401.15 0.17 32.51 41.62 35.38 41.71 2.45 942.54 reach 1 166000 2312.00 0.000239 126.81 0 16 neach 1 166000. 3448 00 32.51 43 QR 36 21 44 09 0.000308 2.70 1275 60 180.29 0.18 each 1 166000 4800.00 32.51 44.72 37.09 44 84 0.000362 3.02 3201.93 5426,15 0.20 46.25 40.24 46.28 0.000168 each 1 166000 11140.00 32.5 2.24 14882.63 7849.61 0.14 34.37 reach 1 184000. 2312.00 31,68 41 23 41.30 0.000174 2.19 1055.67 132.29 0.14 43.51 35.16 43.58 1967.52 reach 1 3448.00 31.68 0.000204 2.30 2044.65 164000 0.15 reach 1 164000 4800.00 31.68 44.38 35.99 44.42 0.000126 1.88 7505.31 6951.80 0.12 reach 1 164000. 11140 00 31.68 46.05 39.03 48 07 0.000070 1.50 20351 99 7847 62 0.09 reach 1 163662 2312.00 31.34 41.17 34.03 41.24 0.000161 2.16 1071.71 129.21 0.13 43.51 reach 1 3448.00 31.34 43,42 34.84 0.000228 2.40 1895.63 1495.44 0.15 163662 31.34 44.32 35.67 44.36 4966.11 163662 4800.00 0.000190 1.99 5819.22 reach 1 0.14 reach 1 163082 11140.00 31.34 46.03 38.73 46.05 0.000109 1.74 15706.21 6000.00 0.11 reach 1 163605 2312.00 31 34 41 16 34.04 41 23 0.000162 2 16 1070 50 120 17 0.13 3448.00 31.34 43.41 34.84 43.50 0.000227 2.40 1876,71 1467.92 0.15 reach 1 163605 35.67 44.35 5758.96 4947.10 reach 1 163605 4800.00 31.34 44.31 0.000193 2.01 0.14 11140.00 31.34 46.02 38.74 46.04 0.000110 1.74 15667.78 6000.00 0.11 each 1 163505 34.07 0.000182 162000 31.35 40.88 40.96 2.23 1038.69 131.87 0.14 reach 1 2312.00 34.88 reach 1 162000 3448.00 31.35 43.28 43.30 0.000067 1.31 7352.56 5500.12 0.08 reach 1 162000 4800.00 31.35 44.21 35.72 44 22 0.000040 1.02 13299 41 7095 38 0.07 each 1 162000 11140.00 31.35 45.94 38.79 45.94 0.000032 1.01 26539.79 7866.64 0.06 1112.10 40.55 33.80 40.62 0.000156 2.08 138.79 31.35 0.13 reach: 1 160000 2312.00 34.53 2.19 2758.15 reach:1 180000 344B 00 31 35 43.01 43.08 0.000176 2443.84 0.14 35 29 each 1 160000 4800.00 31.35 44.05 44.09 0.000116 1.87 6963.30 6037.63 0.11 100000 11140.00 31.35 45.84 38 16 45.85 0.000067 1.55 20079 33 7838 28 0.09 each 1 58000 2312.00 31.36 40.17 34.00 40.25 0.000213 2.33 991.66 132.23 0.15 reach 1 2.59 31.36 42.55 34.77 42.66 0.000257 1329.72 174.17 0.17 neach 1 158000 3448.00 43.78 35.57 43.82 0.000150 6190.15 5479.82 0.13 neach 1 158000. 4800.00 31.36 2.03 7864.00 each 1 68000 11140.00 31.36 45.70 38.55 45.71 0.000070 1.51 19985.62 0.09 reach 1 157191 2312.00 31.36 39.96 34.08 40.08 0.000265 2.57 900.73 121.77 0.17 34.89 42.45 2.87 1199.85 131.12 0.17 157191 3448.00 31.36 42.32 0.000252 reach 1 31.36 43.49 35.73 43.65 0.000291 3.27 2678.11 3537.34 0.18 4800.00 reach 1 157191 45.62 45.64 0.000107 17107.67 8000.00 0.11 38.84 2.13 reach 1 157191 11140.00 31.36 reach.1 39.94 34.08 0.000267 2.57 899.01 121.72 0.17 157140 2312 00 31 36 40.05 reach 1 157140 3448.00 31.36 42 31 34.68 42.44 0.000253 2.88 1198.09 131.08 0.17 43 48 35.72 43.63 0.000295 3,29 2616.41 3467 09 N 18 reach 1 4800.00 31.36 45.61 0.000108 17061.31 8000.00 0.11 reach 1 157140 11140.00 31.36 38.84 45.64 2.14 31.36 39.62 34.00 39.73 0.000287 2.63 879.16 120.98 0.17 150000 2312.00 reach 1 41.99 34.79 0.000303 1177.05 143,24 0.18 42.12 2.93 mach 1 158000 3448 00 31.36 35.63 3932,18 4177.16 0.17 reach 1 15600D 4800.00 31.36 43.21 43.29 0.0002652.67 reach 1 159000 11140.00 31.36 45.52 38 69 45.53 0.000079 1.64 19335.42 7829.87 0.09 39.23 31.37 33.87 39.34 0.000291 2.61 884.85 124.22 0.17 154644 2312.00 reach 1 0.17 31.37 41.61 34.62 41.74 0.000263 2.90 1188.23 131.21 154644 3448.00 reach 1 35.40 0.000366 1327,43 134.29 0.20 reach 1 154644 42.65 42.86 3.62 4800.00 31.37 7787.51 45 27 38.35 45.34 0.000285 11040.79 0.18 reach 1 154544 11140.00 31.37 3.11 2312.00 31.03 38 74 33.86 38.87 0.000388 286 807.06 124.13 0.20 reach 1 153231 31.03 41.18 34.66 41.33 0.000323 3.07 1123.88 135 27 0.19 reach 1 153231 3448.00 4800.00 31.03 42.04 35.48 42.28 0.000467 3.86 1242.37 139.26 0.23 reach 1 153231 44.31 38.50 44.66 0.001140 5.42 4963.23 6045.35 0.35 11140.00 31.03 153231 mach 1 121.12 757.52 0.22 reach 1 38.58 3.05 152561 2312 00 31.03 38 44 33.82 0.000462 134.00 152561 3448.00 31.03 40 94 34.64 41.10 0.000367 3.20 1076.42 0.20 reach 1 4800.00 31.03 41.68 35.48 41.94 0.000549 4.08 1177.04 137.81 0.25 reach 1 152561 43.89 43.51 38.61 0.001237 5.71 4650.19 4529.06 0.36 152561 11140.00 31.03 reach 1

HFC-RAS Plan: NM Rev Ex (Continued)
Reach River Sta Q Total Mir Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chni Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (11) (ft) (fl/ft) (fVs) (sq ft) (ft) reach 1 152553 Inline Weir 52515 2312.00 28.25 38.43 31.02 0.000155 38.50 2.15 1076.17 126.59 0.13 reach 1 152515 3448.00 28.25 40.93 31.85 41.02 0.000158 2.45 1404.86 136.81 0.13 reach 1 152515 4800.00 28 25 41 67 32 70 41 82 0.000250 3 18 1507.27 139.84 0.17 reach 1 152515 11140.00 28.25 43.50 35.84 43.76 0.000839 4.67 5216.23 4870.49 0.30 reach 1 152000. 2312.00 28.25 38.35 31.07 38.43 0.000166 2.20 1052.15 126,16 0.13 152000. 3448.00 28.26 40.85 31.91 reach 1 40.94 0.000168 2.50 1380.38 137.05 0.14 reach 1 152000. 4800,00 28.25 41.52 32.79 41.69 0.000273 3.26 1474.29 141.63 0.18 reach 1 152000 11140 00 28.25 43.29 35.97 43.43 0.000418 3.87 8121.17 7804.74 0.22 151600 2312.00 28.25 38.29 30.91 38.36 0.000150 2.14 1081,29 124.15 0.13 reach 1 151600 3448.00 28.25 40.78 31.71 40.88 0.000155 2.46 1400.86 132.34 0.13 151600 4800.00 41.42 32.54 41.58 reach 1 28.25 0.000253 3.23 1485.95 134.44 0.17 reach 1 151600 11140.00 28.25 43.18 35.63 43.29 0.000268 3.45 10319.07 7993.31 0.18 reach 1 151516 2312.00 28.25 38.28 30.91 38.35 0.000151 2.14 1079.68 124,10 0.13 reach 1 151516 3448.00 28.25 40.77 31.70 40.87 0.000156 2.46 1399.09 0.13 151516 4800,00 41,40 32.53 41,56 0.000254 3.24 reach 1 28.25 1482.97 134.37 0.17 0.18 reach 1. 151516 11140.00 28.25 43.16 35.63 43.26 0.000277 3.52 10088.04 7992.92 mech 1 150000 2286.00 27 92 38 04 30.79 38 11 0.000167 2.19 1043.59 126.49 0.13 reach 1 150000. 3412.00 27.92 40.51 31.63 40.61 0.15 0.000189 2.48 1400.07 364.26 150000 4695.00 27.92 40.95 32.48 41.11 0.000355 3.20 1672.84 767.50 0.20 150000. 11052.00 27.92 35,67 0.000929 4007.48 0.32 reach 1 42.16 42.53 5.42 4431.17 148000 27 14 0.13 reach 1 2286 00 37.73 30.07 37.80 0.000144 2.08 1096.52 128 06 reach 1 148000. 3412.00 27.14 40.31 30.90 40.34 0.000085 1.57 5356.44 4497.45 0.10 148000 4695.00 27.14 40.69 31.74 40.72 0.000105 1.78 7373.11 6312.75 0.11 reach 1 148000. 11052.00 27.14 41.91 34.96 41.93 0.000112 1.95 16721.81 7844.37 0.11 147159 27.14 37.62 reach 1 2286,00 29.94 37.68 0.000132 2.01 1138,40 131.30 0.12 mach 1 147159 3412.00 27.14 40.25 30.73 40.26 0.000093 1.16 7611.93 7965 51 0.09 147159 4695.00 27.14 40.62 31.53 40.63 1.12 10584.86 0.09 0.000086 7993.28 147159 11052.00 27.14 41.84 34.63 41.85 0.000076 1.20 20354.35 8000,00 0.09 reach 1 reach 1 147111 2286.00 27.14 37.61 29.94 37.67 0.000132 2.01 1137.55 131.27 0.12 reach 1 147111 3412.00 27.14 40.24 30.74 40.26 0.000094 1.17 7571.22 7964.86 0.09 147111 4695.00 27.14 40.62 31.53 40.63 0.000087 1.12 10550.59 7993.19 0.09 reach 1 reach 1 147111 11052.00 27.14 41.84 34.63 41.85 0.000076 1.21 20324.84 8000.00 0.09 46000. 2286.00 27.13 37.45 37.52 0.000152 1078.61 127.20 0.13 reach 1 29.99 2.12 3412.00 27.13 40.07 30.80 40.13 0.000141 3384.39 3986.93 0.12 reach 1 46000 2.02 reach 1 46000 4695.00 27.13 40.54 31.62 40.55 0.000052 1.25 11696.38 7815.52 0.08 reach 1 146000. 11052.00 27.13 41.76 34.78 41.77 0.000061 1.42 21247.21 7835.40 0.08 27.12 0.14 144000 2286.00 37.11 30.01 37.19 0.000174 2.24 1021.13 122.76 reach 1 3412.00 30.85 39.77 1484.50 637.89 0.15 144000 27.12 39.67 0.000225 2.47 reach 1 27.12 8368.17 7792.34 0.10 reach 1 144000 4695.00 40.39 31.66 40.41 0.000097 1.68 reach 1 144000 11052.00 27.12 41.60 34.86 41.62 0.000097 1.78 17859.22 7826.61 0.10 0.000179 reach 1 143233 2286.00 27.12 36.98 30.01 37.06 2.24 1018.53 125.36 0.14 0.16 reach t 143233 3412.00 27.12 39.50 30.83 39.59 0.000235 2.50 1366.25 176.14 reach 1 143233 4695.00 27.12 40.34 31.65 40.34 0.000074 1.08 10804.00 7794.98 90.0 20444.44 11052.00 27.12 41.55 34.84 41.55 0.000076 8000.00 0.09 reach 1 143233 1.15 reach 1 143179 2286.00 27.12 36.97 30.01 37.05 0.000180 2.25 1017 28 125 32 0 14 reach 1 143179 3412.00 27.12 39.48 30.83 39.58 0.000235 2.50 1363.98 175.72 0.16 143179 4695.00 27.12 40.33 31.65 40.34 0.000074 1.08 10769.31 7792.98 0.08 reach 1 143179 11052.00 27.12 41.54 34.84 41.55 0.000076 1.18 20408.98 8000.00 0.09 reach 1 0.15 reach 1 142000 2286.00 27.13 36.72 30.16 36.81 0.000223 2.42 944.38 122.52 142000 3412.00 27.13 39.17 31.01 39.28 0.000267 2.68 1271.00 162.18 0.17 reach 1 31.88 40.20 0.000188 4998.31 4003.03 0.14 reach 1 142000 4695.00 27.13 40.14 2.30 11052.00 27.13 41,47 35.13 41.48 0.000046 1.19 23449.96 7852.45 0.07 142000 reach 1 0.15 29.69 36.64 2.39 957.90 118.78 reach 1 141221 2286.00 26.68 36.55 0.000205 141221 3412.00 26.68 39.05 30.57 39 08 0.000190 1.65 3888 40 2786.93 0.13 reach 1 141221 4695.00 26.68 40.06 31.43 40.08 0.000109 1.35 7436.02 4153.31 0.10 reach 1 8000.00 0.05 141221 11052.00 26.68 41.45 34.74 41.46 0.000026 0.76 28730.84

29.69

36.63

0.000206

2.39

956.21

118.72

0.15

reach 1

reach 1

141154

2286.00

26.68

HEC-RAS Plan: NM Rev Ex (Continued)

| Reach            |  | Continue<br>Q Total | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chril    | Flow Area           | Top Width          | Froude # Chl |
|------------------|--|---------------------|----------------|----------------|----------------|----------------|------------|--------------|---------------------|--------------------|--------------|
| 2002-1-1         | 1 Y 2 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | (cfs)               | (ft)           | (ft)           | (ft)           | (ft)           | (ft/ft)    | (ft/s)       | (sq ft)             | (n)                |              |
| reach 1          | 141154   | 3412.00             | 26.68          | 38,98          | 30.57          | 39.06          | 0.000393   | 2.32         | 1471.69             | 2688.87            | 0.19         |
| reach 1          | 141154   | 4695.00             | 26.68          | 40.06          | 31.43          | 40.07          | 0.000110   | 1.34         | 7425.07             | 4163.41            | 0.10         |
| reach 1          | 141154   | 11052.00            | 26.68          | 41.45          | 34.73          | 41.46          | 0.000026   | 0.76         | 28716.89            | 8000.00            | 0.05         |
| 2 3 90           | 1.5  |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 140000   | 2296.00             | 26.64          | 36.30          | 29.52          | 36.39          | 0.000210   | 2.42         | 945.60              | 116.74             | 0.15         |
| reach 1          | 140000   | 3412.00             | 26.64          | 38.64          | 30.38          | 38.72          | 0.000228   | 2.46         | 2324.88             | 1992.35            | 0.16         |
| reach 1          | 140000   | 4695.00<br>11052.00 | 26.64          | 39.89<br>41.42 | 31.23<br>34.52 | 39.93<br>41.42 |            | 1.93         | 6011.26<br>26024.17 | 3881.73<br>7887.96 | 0.12         |
| react 1          | INCALL STATE   | 11052.00            | 20.04          | 41.42          | 34.52          | 41.42          | 0.000035   | 1.03         | 20024.17            | 7887,96            | 0.06         |
| reach 1          | 138000   | 2286.00             | 25.62          | 35.94          | 28.53          | 36.02          | 0.000162   | 2.19         | 1045.58             | 123.85             | 0.13         |
|                  | 138000   | 3412.00             | 25.62          | 38.16          | 29.37          | 38.27          | 0.000228   | 2.54         | 1344.70             | 180.44             | 0.16         |
| reach 1          | 138000.  | 4695.00             | 25.62          | 39.41          | 30.21          | 39.53          | 0.000279   | 2.84         | 2469.75             | 2506.34            | 0.17         |
| reach 1          | 138000   | 11052.00            | 25.62          | 41.32          | 33.47          | 41.33          | 0.000058   | 1.40         | 21344.85            | 7847.57            | 0.08         |
| - 4700           | - 144 <b>- 146</b>   |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 136000   | 2321.00             | 25.62          | 35.62          | 28.35          | 35.70          | 0.000158   | 2.17         | 1070.98             | 125.11             | 0.13         |
| reach 1          | 136000.  | 3436.00             | 25.62          | 37.77          | 29.12          | 37.87          | 0.000176   | 2.55         | 1347.77             | 133.19             | 0.14         |
| reach 1          | 138000   | 4708.00             | 25.62          | 38.81          | 29.91          | 38.97          | 0.000280   | 3.16         | 1489.23             | 151.32             | 0.18         |
| reach 1          | 138000   | 11062.00            | 25.62          | 41.18          | 33.02          | 41.18          | 0.000103   | 1.84         | 16202.89            | 7777.48            | 0.11         |
|                  |  |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 135932   | 2321.00             | 25.63          | 35.62          | 28.40          | 35.69          |            | 2.17         | 1070.62             | 126.37             | 0.13         |
| reach 1          | 135932   | 3436.00             | 25.63          | 37.76          | 29.18          | 37.86          |            | 2.55         | 1349,75             | 134.21             | 0.14         |
| reach 1          | 135932   | 4708.00             | 25.63          | 38.80          | 29.98          | 38.96          |            | 3.16         | 1491.55             | 138.01             | 0.17         |
| reach 1          | 135932   | 11062.00            | 25.63          | 41.16          | 33.08          | 41.18          | 0.000095   | 1.97         | 16115.26            | 7687.04            | 0.11         |
|                  | 496000   | 2224 00             | 25.62          | 35.61          | 28.40          | 35.68          | 0.000159   | 2.17         | 1069.70             | 126.34             | 0.13         |
| reach 1          | 136888   | 2321.00<br>3436.00  | 25.63<br>25.63 | 37.75          | 29.18          | 37.85          |            | 2.17         | 1348.67             | 134.18             | 0.14         |
| reach 1          | 135888   | 4708.00             | 25.63          | 38.79          | 29.98          | 38.95          |            | 3.16         | 1490.14             | 137.98             | 0.17         |
| reach 1          | 135888   | 11062.00            | 25.63          | 41.15          | 33.08          | 41.17          |            | 1.97         | 16077.55            | 7675,90            | 0.11         |
|                  | Same and the same  | 1,502.55            |                | 7,1.10         |                |                | 5.50000    |              | 700,7,00            |                    |              |
| reach 1          | 134000   | 2321.00             | 25.63          | 35.26          | 28.74          | 35.35          | 0.000199   | 2.34         | 992.23              | 124.14             | 0.15         |
| reach:1          | 134000.  | 3436.00             | 25.63          | 37.35          | 29.55          | 37.45          | 0.000253   | 2.68         | 1456.01             | 683,31             | 0.16         |
| reach 1          | 134000.  | 4708.00             | 25.63          | 38.29          | 30.31          | 38.41          | 0.000312   | 2.95         | 2517.34             | 1571.19            | 0.18         |
| reach 1          | 134000   | 11062.00            | 25.63          | 40.87          | 33.38          | 40.92          | 0.000198   | 2.62         | 11718.78            | 6840.83            | 0.15         |
| MATERIAL SECTION | Company of the state of the sta |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 132000   | 2316.00             | 25.57          | 34.86          | 28.33          | 34.94          | 0.000202   | 2.31         | 1002.34             | 130.04             | 0.15         |
| reach 1          | 132000.  | 3430.00             | 25.57          | 36.87          | 29.12          | 36.98          |            | 2.69         |                     | 139.64             | 0.16         |
| reach-1          | 132000   | 4643.00             | 25.57          | 37.61          | 29.88          | 37.78          |            | 3.37         | 1377.54             | 478.47             | 0.19         |
| reach 1          | 132000.  | 11045.00            | 25.57          | 39.64          | 33.00          | 40.17          | 0.001017   | 6.02         | 2486.07             | 2484.09            | 0.34         |
| 73               | 44   |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 130750   | 2316.00             | 25.57          | 34.57          | 28.36          | 34.67          |            | 2.48         | 935.67              | 122,60             | 0.16         |
| reach 1          | 130750   | 3430.00             | 25.57          | 36.55          | 29.16          | 36.68<br>37.33 |            |              | 1186.22<br>1680.38  | 130.65<br>760.72   |              |
| reach 1          | 130750   | 4643.00<br>11045.00 | 25.57<br>25.57 | 37.15<br>38.26 | 29.92<br>33.11 | 38.83          |            | 3.49<br>6.51 | 2767.34             | 1921.21            | 0.38         |
| reach f          | 130750   | 11045.00            | 25.57          | 30.20          | 33.11          | 36.60          | 0.001207   | 0.51         | 2/0/.54             | 1921.21            | 0.36         |
| reach 1          | 130898   | 2316.00             | 25.57          | 34.56          | 28.36          | 34.66          | 0.000238   | 2.48         | 934.04              | 122.55             | 0.16         |
| reach 1          | 130698   | 3430.00             | 25.57          | 36.54          | 29.16          | 36.67          |            |              |                     |                    |              |
| reach 1          | 130698   | 4643.00             | 25.57          | 37.13          | 29.92          | 37.32          |            |              |                     | 746.90             |              |
| reach 1          | 130698   | 11045.00            | 25.57          | 38.17          | 33.11          | 38.76          |            |              |                     | 1815.70            |              |
|                  | 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7   |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 129441   | 2316.00             | 24.36          | 34.30          | 27.39          | 34.39          | 0.000189   | 2.33         | 995.67              | 119.92             | 0,14         |
| reach 1          | 129441   | 3430.00             | 24.36          | 36.26          | 28.19          | 36.38          | 0.000218   | 2.77         |                     |                    |              |
| reach 1          | 129441   | 4643.00             | 24.36          | 37.14          | 28.97          | 37.14          |            |              |                     |                    |              |
| reach 1          | 129441   | 11045.00            | 24.36          | 38.30          | 32.21          | 38.32          | 0.000073   | 1.60         | 17817.94            | 5740.78            | 0.09         |
| 15000 0000       |  |                     |                |                |                |                |            |              | L                   |                    |              |
| reach 1          | 128185   | 2316.00             | 24.36          | 34.08          | 27.06          |                |            |              |                     |                    |              |
| reach 1          | 128185   | 3430.00             | 24.36          | 36.00          | 27.84          |                |            |              |                     |                    |              |
| reach 1          | 128185   | 4643.00<br>11045.00 | 24.36<br>24.36 | 37.04<br>38.09 | 28.59<br>31.71 |                |            |              |                     |                    |              |
| reach 1          | 128185   | 11045.00            | 24.30          | 36.09          | 31.71          | 30, 13         | 0.000220   | 2.40         | 5023.47             | 3900,38            | 0.15         |
| reach 1          | 128137   | 2316.00             | 24.36          | 34.07          | 27.07          | 34.15          | 0.000170   | 2.23         | 1039.70             | 123.67             | 0.14         |
| reach 1          | 128137   | 3430.00             | 24.36          | 35.99          | 27.84          |                |            |              |                     |                    |              |
| reach 1          | 128137   | 4643.00             | 24.36          | 37.04          |                |                |            |              |                     |                    |              |
| reach 1          | 128137   | 11045.00            | 24.36          | 38.07          | 31.71          |                |            |              |                     |                    |              |
|                  |  | ,,,,,,,,,,,         | 00             | 30.07          | 7              |                |            |              |                     | 1                  |              |
| reach 1          | 128000.  | 2316.00             | 24.36          | 34.04          | 27.17          | 34.12          | 0.000182   | 2.26         | 1022.68             | 125.74             | 0.14         |
| reach 1          | 128000.  | 3430.00             | 24.36          | 35.95          |                |                |            |              | 1278.26             |                    |              |
| reach 1          | 128000.  | 4643.00             | 24.36          | 36.86          | 28.73          | 37.00          | 0.000373   | 3.24         | 1486.49             |                    |              |
| reach 1          | 128000.  | 11045.00            | 24.36          | 38.04          | 31.89          | 38.08          | 0.000204   | 2,54         | 9116.00             | 3957.00            | 0.15         |
|                  | ere same   |                     |                |                |                |                |            |              |                     |                    |              |
| reach 1          | 126275   | 2316.00             | 24.02          | 33.74          |                |                |            |              |                     |                    |              |
| reach 1          | 126275   | 3430.00             | 24.02          | 35.60          |                |                |            |              |                     |                    |              |
| reach 1          | 128275   | 4643.00             | 24.02          | 36.44          |                |                |            |              |                     |                    |              |
| reach 1          | 126275   | 11045.00            | 24.02          | 37.44          | 31.54          | 37.5           | B 0.000424 | 4.01         | 7757.04             | 4715.08            | 0.22         |
|                  | 1 1  | 1 1                 |                |                | 1              | 1_             | L          | L            |                     | L                  |              |

HFC-RAS Plan: NM Rev Fx (Continued)
Reach RiverSta Q Total Mir Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Top Width Flow Area Froude # Chl (cfs) (ft) (ft) (ff) (fivit) (11/3) (sq ft) (ft) reach 1 126253 2316.00 24.02 33.73 26.97 33.81 0.000170 2.18 1064.54 132.89 0.14 reach 1 126253 3430.00 24.02 35,60 27.76 35.70 0.000180 2.51 1855.97 1288.47 0.14 126253 4643.00 24.02 36.43 reach 1 28.52 36.52 0.000211 2.64 3705.09 3294.68 0.15 reach 1 126253 11045.00 24.02 37.42 31.54 37.58 0.000429 7704.83 4.03 4700.76 0.22 reach 1 126194 2316.00 24.02 33.71 27.13 33 80 0.000218 2.43 954,91 121.62 0.15 reach 1 126194 3430.00 24.02 35.61 27.96 35.67 0.000149 2.15 3603.29 2604.91 0.13 reach 1 4643.00 24.02 36.47 28.75 126194 36.49 0.000104 1.69 7774.12 4960.22 0.11 reach 1 11045.00 24.02 37.49 32.02 37.52 0.000174 2.37 13373.43 5986.32 0.14 reach 1 126142 2316.00 24.02 33,69 27,13 33,78 0.000220 2.43 952 65 121.54 0.15 reach 1 126142 3430.00 24.02 35.61 27.96 35 66 0.000150 2.15 3587.31 2597.03 0.13 reach 1 126142 4643.00 24.02 36,47 28.75 36.49 0.000104 1.69 7762.88 4957.95 0.11 126142 11045.00 24.02 37,48 32.02 37.51 0.000176 2.38 13304.38 5974.73 0.14 2316.00 33.67 26.85 reach 1 126000. 24.02 33.75 0.000180 2.24 1033.11 127 68 0.14 reach 1 126000. 3430,00 24.02 35.60 27.63 35.64 0.000125 1.81 4024.96 2340.22 0.11 reach 1 126000 4643 00 24 02 36.46 28.39 36.47 0.000053 1.24 10098.30 5629.04 0.08 each 1 126000 11045.00 24.02 37.47 31.51 37.49 0.000113 1.92 15803.37 7014.70 0.11 reach 1 24276 2316.00 23.63 33.29 26.76 33,39 0.000236 2.54 912.85 114.25 0.16 reach 1 3430.00 23.63 35,18 27.60 35.32 124278 0.000273 3.02 1135.07 1389.94 0.17 4643 00 mach 1 124276 23 63 36.10 28 41 36 27 0.000329 3 47 1956.64 4889.40 0.19 reach t 124276 11045.00 23.63 37.00 31 75 37.13 0.000479 8541.59 3.94 6851.99 0.23 23,63 33.27 26.71 124185 2316.00 33.37 0.000231 2.52 918,97 113.67 0.16 reach 1 124185 3430.00 23.63 35.15 27.54 35.29 0.000269 3.01 1154.44 1137.92 0.17 4643.00 23.63 124185 36.16 28.34 36.22 0.000193 reach 1 2.36 5305.60 5762.99 0 14 11045.00 neach 1 124185 23 63 36.99 31 70 37.07 0.000369 3 44 9506.18 6816.52 0.20 reach 1 124085 2316.00 23.63 33,26 26.74 33,36 0.000236 2.55 908.49 112.42 0.16 3430.00 23.63 reach 1 124085 35.12 27.56 35.26 0.000277 3.05 1123,22 1850.26 0.17 124085 4643.00 23.63 36.15 28.39 36.20 0.000173 reach 1 2.30 5661.61 5572.47 0.14 11045.00 reach 1 124085 23.63 36.96 31.70 37.04 0.000347 3.46 9776.45 6580.99 0.20 2.50 124000. 2316.00 23.63 33.24 26.74 33.34 0.000233 926.32 117.70 reach 1 0.16 reach 1 124000 3430.00 23.63 35.14 27.59 35.22 0.000207 2.51 2603.55 2184.85 0.15 124000. 4843.00 23.63 36.14 28.39 36.18 0.000165 reach 1 2.02 5753.54 4824.52 0.13 124000 11045.00 31.70 9536.09 reach 1 23.63 36.93 37.01 0.000366 3.20 6448.53 0.20 122908 2316.00 23.63 32.99 26.64 33.08 0.000228 2.44 951.07 124.45 0.16 reach 1 3430.00 23.63 34.83 27.45 reach 1 122906 34.96 0.000261 2.89 1187.73 2156.91 0.17 reach 1 122908 4643.00 23.63 35,71 28.22 35.91 0.000363 3.55 1306.20 6157.65 0.20 11045.00 122908 23.63 36.73 31.43 36.76 0.000138 2.29 15447.93 reach 1 7217.26 0.13 122857 26.64 reach 1 2316.00 23.63 32.98 33.07 0.000229 2.44 949.57 124 40 0.16 reach 1 122857 3430.00 23.63 34.82 27.45 34.95 0.000262 2.89 1185.90 2140.98 0.17 4643.00 23.63 35.69 28.22 0.000366 1302.63 3034.94 reach 1 122857 35.88 3.56 0.20 122857 11045.00 23.63 36.73 31.43 36.76 0.000139 2.30 15393.25 7209.32 reach 1 0.13 2316.00 32.79 961.47 123,11 reach 1 122000. 23.45 26.44 32.88 0.000218 2.41 0.15 reach 1 122000. 3430.00 23.45 34.61 27.24 34.73 0.000247 2.84 1399.22 857.61 0.17 122000 4643.00 23 45 35 65 27.98 35 68 0.000110 1.85 7409.63 5566.79 0.11 reach 1 reach 1 122000 11045.00 23.45 36.57 31.13 36.61 0.000206 2.47 12839.63 7044.44 0.15 reach 1 120000. 2316.00 23.41 32.33 26.14 32.43 0.000236 2.46 941.15 124.03 0.16 3430.00 23.41 34.07 26.93 34.21 0.000277 1163.09 131.49 reach 1 120000. 2.95 0.17 reach 1 120000 4643.00 23.41 35.08 27.71 35.28 0.000408 3.57 1299.97 147.57 0.21 120000 11045.00 23.41 36.20 30.85 36.23 0.000179 12294.02 5879.62 0.14 reach 1 2.26 118000 2316.00 23.26 31.83 26.00 31,93 0.000265 2.56 904.67 122.56 0.17 reach 1 118000. 3430.00 23.26 33.47 26.78 33.61 0.000315 3.09 1110,87 128.94 0.19 reach 1 34.16 4643.00 23.26 27.53 34.39 0.000482 1201.61 reach 1 118000 3.86 136,98 0.23 reach 1 118000 11045.00 23.26 35.49 30.66 35.62 0.000559 3.98 7187.45 4658.59 0.25 2330.00 23.27 31.26 25.90 31.37 0.000297 2.62 888.54 126.99 reach 1 116000 0.17 116000 3439.00 23,27 32.82 26.64 32.97 0.000332 3.08 1539.08 2560.77 0.19 reach 1 4641.00 33.43 27.35 33.54 0.000353 2.95 reach 1 116000 23.27 3840.26 4133.23 0.19 reach 1 116000 11046.00 23.27 34.66 30.35 34.72 0.000355 3.08 9844.99 5757.21 0.19 reach 1 114000. 2330.00 21.89 30.77 24.65 30.86 0.000214 2.36 991.56 154.16 0.15 21.89 25.39 32.44 3747.18 0.14 114000 3439.00 32.38 0.000192 2.22 4262.20 reach 1 114000 4641.00 21.89 33.08 26.09 33.12 0.000130 1.91 7245.13 5628.86 0.12 reach 1 reach 1 21.89 34.22 29.06 34.25 0.000159 2.27 14065.04 6337.06 0.13 114000 11046.00

HEC-RAS Plan: NM Rev Fx (Continued)

| 1.150.050.083      | River Sta  | Q Total     | Min Ch El      | W.S. Elev | Crit W.S.      | E.G. Elev      | E.G. Slope | Vei Chri | Flow Area | Top Width | Froude # Chi    |
|--------------------|--|-------------|----------------|-----------|----------------|----------------|------------|----------|-----------|-----------|-----------------|
| 1,300              | Tarre Carren and   | (cfs)       | (ft)           | (ft)      | (ft)           | (ft)           | (ft/ft)    | (ft/s)   | (sq ft)   | (ft)      | S. 75. 1. 1. 1. |
| reach 1            | 113338   | 2330,00     | 74.00          |           |                |                |            |          |           |           |                 |
| reach 1            | 113338   | 3439.00     | 21.88          | 30.62     | 24.72          | 30.71          |            | 2.44     | 954.48    | 129.89    | 0.1             |
| reach 1            | 113338   | 4641.00     | 21.88          | 32.14     | 25.47          | 32.28          |            | 2.97     | 1157.12   | 2337.68   | 0.1             |
| reach 1            | 113338   | 11046.00    | 21.88<br>21.88 | 32.73     | 26.19          | 32.95          |            | 3.75     | 1238.17   | 4939.89   | 0.2             |
| ardin son          |  | 11040.00    | 21.88          | 34.15     | 29.22          | 34.16          | 0.000110   | 1.73     | 16434.29  | 6915.53   | 0.1             |
| reach 1            | 113284   | 2330.00     | 21.88          | 20.04     |                |                |            |          |           |           |                 |
| reach 1            | 113284   | 3439.00     | 21.88          | 30.61     | 24.66          | 30.69          |            | 2.38     | 977.99    | 132.19    | 0.1             |
| reach 1            | 113284   | 4641.00     | 21.88          | 32.13     | 25.40          | 32.26          |            | 2.90     | 1183.98   | 3038.90   | 0.1             |
| reach 1            | 113284   | 11046.00    | 21.88          | 32.72     | 26.11          | 32.93          |            | 3.67     | 1265.77   | 5120.41   | 0.2             |
| 1 10 4 10 13.7     | . Alles  | 11040.00    | 21.00          | 34.11     | 29.09          | 34.15          | 0.000217   | 2.65     | 12883.52  | 6938.69   | 0.1             |
| reach 1            | 112824   | 2330.00     | 22.02          | 30.40     | 24.00          |                |            |          |           |           |                 |
| reach 1            | 112824   | 3439.00     | 22.02          | 31.87     | 24.96          | 30.51          | 0.000329   | 2.75     | 848.09    | 122.61    | 0.1             |
| reach 1            | 112624   | 4641.00     | 22.02          | 32.49     | 25.76          | 32.04          |            | 3.32     | 1066.50   | 457.07    | 0.2             |
| reach 1            | 112624   | 11048.00    | 22.02          | 33.95     | 26.53<br>29.71 | 32.63          |            | 3.37     | 3335.19   | 4314.52   | 0.2             |
| MARKET MARKET      | Mark Miller  |             |                | 30.30     | 29.71          | 33.99          | 0.000296   | 2.57     | 11907.16  | 6700.87   | 0.1             |
| reach 1            | 112620   | Inline Weir | -              |           |                |                |            |          |           |           |                 |
| A to be the second | يب ره بود پينون کو په دو دور   |             |                |           |                |                |            |          |           | i         |                 |
| reach 1            | 112604   | 2330.00     | 20.05          | 30.39     | 22.94          | 20.40          | 200000     |          |           |           |                 |
| reach 1            | 112004   | 3439.00     | 20.05          | 31.88     | 23.76          | 30.46          | 0.000164   | 2.20     | 1057.15   | 124.67    | 0.13            |
| reach 1            | 112004   | 4641.00     | 20.05          | 32.48     | 24.55          | 31.98          | 0.000222   | 2.76     | 1283.23   | 419.10    | 0.16            |
| reach 1            | 112804   | 11046.00    | 20.05          | 33.94     | 27.83          | 32.60<br>33.98 |            | 2.95     | 3564.55   | 4304.40   | 0.17            |
| market in          | 4  |             |                | w.o-      | 27.03          | 33.98          | 0.000254   | 2.59     | 12068.98  | 6672.65   | 0.16            |
| reach 1            | 112000.  | 2330.00     | 20.06          | 30.29     | 22.92          | 20.20          | 0.000405   |          |           |           |                 |
| reach 1            | 112000.  | 3439.00     | 20.06          | 31.72     | 23.73          | 30.36          | 0.000166   | 2.21     | 1053,01   | 124.66    | 0.13            |
| reach 1            | 112000   | 4641.00     | 20.06          | 32.35     | 24.53          | 32.42          | 0.000246   | 2.74     | 1467.12   | 1091.54   | 0.16            |
| reach 1            | 112000.  | 11046.00    | 20.06          | 33.81     | 27.81          | 33.84          | 0.000236   | 2.50     | 4692.47   | 4515.58   | 0.16            |
| The section is     | 1000年 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日   |             |                |           | 27.01          | 33.64          | 0.000199   | 2.35     | 13082.06  | 6505.03   | 0.15            |
| reach 1            | 110000.  | 2641.00     | 19.82          | 29.86     | 22.92          | 29.96          | 0.000227   | 2.50     | 1000      |           |                 |
| reach 1            | 110000.  | 3856.00     | 19.82          | 31.22     | 23.78          | 31.31          | 0.000227   | 2.58     | 1025.24   | 122.13    | 0.16            |
| reach 1            | 110000   | 5335.00     | 19.82          | 31.91     | 24.69          | 31.97          | 0.000259   | 2.66     | 2401.00   | 1135.08   | 0.17            |
| reach 1            | 110000.  | 11115.00    | 19.82          | 33.48     | 27.57          | 33.51          | 0.000214   | 2.47     | 4342.02   | 1701.84   | 0.15            |
|                    | a transfer of  |             |                |           | 27.07          | 33.31          | 0.000142   | 2.06     | 15821.56  | 7700.97   | 0.12            |
| reach 1            | 108000.  | 2641.00     | 19.53          | 29.41     | 22.56          | 29.51          | 0.000226   | 0.50     |           |           |                 |
| reach:1            | 108000.  | 3856.00     | 19.53          | 30.93     | 23.41          | 30.98          | 0.000228   | 2.56     | 1031.27   | 123.60    | 0.16            |
| reach 1            | 108000   | 5335.00     | 19.53          | 31.72     | 24.31          | 31.74          | 0.000083   | 2.06     | 5562.28   | 4909.86   | 0.12            |
| reach 1            | 108000.  | 11115.00    | 19.53          | 33.33     | 27.12          | 33.34          | 0.000069   | 1.71     | 9520.52   | 5153.76   | 0.10            |
| editory in a       | TO THE SERVICE OF THE |             |                |           | 27.12          | 33.34          | 0.00008    | 1.48     | 18871.92  | 6341.11   | 0.09            |
|                    | 107687   | 2641.00     | 19.53          | 29.33     |                | 29.43          | 0.000242   | 2.58     | 4000 54   |           |                 |
| reach 1            | 107887   | 3856.00     | 19.53          | 30.75     |                | 30.90          | 0.000321   | 3.18     | 1023.54   | 128.00    | 0.16            |
| reach 1            | 107887   | 5335.00     | 19.53          | 31.40     |                | 31,66          | 0.000501   | 4.09     | 1211.60   | 140.92    | 0.19            |
| reach 1            | 107687   | 11115.00    | 19.53          | 33.04     |                | 33.27          | 0.000710   | 4.72     | 1312.54   | 172.48    | 0.24            |
| and the second     | Marking Constraint   |             |                |           |                |                | 0.0007101  | 4.12     | 7668.85   | 9140.62   | 0.28            |
| reach 1            | 107600   | 2641.00     | 19.53          | 29.31     |                | 29.41          | 0.000244   | 2.59     | 1004 07   |           |                 |
| reach 1            | 107800   | 3856.00     | 19.53          | 30.72     |                | 30.88          | 0.000323   | 3.19     | 1021.37   | 127.90    | 0.16            |
| reach 1            | 107600   | 5335.00     | 19.53          | 31.37     |                | 31.63          | 0.000507   | 4.11     | 1306.35   | 140.07    | 0.19            |
| reach 1            | 107600   | 11115.00    | 19.53          | 32.24     | 27.17          | 33,14          | 0.001821   | 7.67     | 1860.85   | 170.14    | 0.24            |
|                    | and late   |             |                |           |                |                |            | 7.07     | 1000.001  | 3211.44   | 0.45            |
| reach 1            | 106000   | 2641.00     | 19.52          | 28.90     | 22.49          | 29.01          | 0.000262   | 2.68     | 984.73    | 122.98    | 0.47            |
| each 1             | 106000.  | 3856.00     | 19.52          | 30.09     | 23.32          | 30.26          | 0.000464   | 3.37     | 1144.26   | 156.50    | 0.17            |
| each 1             | 108000.  | 5335.00     | 19.52          | 30.72     | 24.23          | 30.81          | 0.000453   | 2.95     | 4331.62   | 5318.64   | 0.22            |
|                    | 106000   | 11115.00    | 19.52          | 31.77     | 27.03          | 31.82          | 0.000340   | 2.79     | 12385.31  | 9474.78   | 0.21            |
|                    |  |             |                |           |                |                |            |          |           | 5474.10   | 0.19            |
| each 1             | 104000   | 2641.00     | 18,67          | 28.37     | 22.04          | 28.48          | 0.000265   | 2.69     | 982.02    | 123,15    | 0.17            |
|                    | 104000   | 3856.00     | 18.67          | 29.80     | 22.88          | 29.82          | 0.000108   | 1.61     | 5648,41   | 2788.73   | 0.17            |
| each 1             |  | 5335.00     | 18.67          | 30.39     | 23.76          | 30.40          | 0.000109   | 1.55     | 7903.67   | 3679.28   | 0.11            |
| each 1             | 104000.  | 11115.00    | 18.67          | 31.31     | 26.53          | 31.33          | 0.000179   | 2.13     | 11551.20  | 4250.36   | 0.11            |
|                    | - 33   |             |                |           |                |                |            |          |           |           | 0.14            |
| each 1             | 102396   | 2641.00     | 18.36          | 27.93     | 21.50          | 28.05          | 0.000277   | 2.75     | 961.00    | 120.83    | 0.17            |
| each 1             | 102398   | 3856.00     | 18.36          | 29.34     | 22.37          | 29.52          | 0.000362   | 3.39     | 1135.91   | 1759.89   | 0.20            |
| each 1             | 102396   | 5335.00     | 18.36          | 30.08     | 23.29          | 30.15          | 0.000223   | 2.74     | 6911.87   | 10825.00  | 0.16            |
| each 1             | 102398   | 11115.00    | 18.36          | 31.03     | 26.19          | 31.06          | 0.000164   | 2.30     | 17688.60  | 11400.00  | 0.14            |
| pach t             | 100214   |             |                |           |                |                |            |          |           |           | 0.14            |
| Bach 1             | 102314   | 2641.00     | 18.36          | 27.91     | 21.50          | 28.02          | 0.000279   | 2.76     | 958.16    | 120.74    | 0.17            |
| each 1             | 102314   | 3856.00     | 18.36          | 29.31     | 22.37          | 29.49          | 0.000365   | 3.41     | 1131.97   | 1677.12   | 0.20            |
|                    | 102314   | 5335.00     | 18.36          | 30.06     | 23.29          | 30.14          | 0.000233   | 2.80     | 6678.73   | 10473.32  | 0.16            |
| each 1             | 102314   | 11115.00    | 18.36          | 31.01     | 26.19          | 31.04          | 0.000170   | 2.34     | 17450.77  | 11400.00  | 0.14            |
| anch 1             | 40000  |             |                |           |                |                |            |          |           | -         | 0.14            |
| each 1             | 102000.  | 2641.00     | 18.36          | 27.84     | 21.29          | 27.94          | 0.000223   | 2.52     | 1047.29   | 127.30    | 0.15            |
| sach 1             | 102000.  | 3856.00     | 18.36          | 29.32     | 22.09          | 29.38          | 0.000176   | 2.20     | 4586.44   | 4505.23   | 0.13            |
| each 1             | 102000   | 5335.00     | 18.36          | 30.04     | 22.93          | 30.07          | 0.000136   | 1.88     | 10192.72  | 10766.35  | 0.12            |
| each 1             | 102000.  | 11115.00    | 18.36          | 30.98     | 25.60          | 30.99          | 0.000105   | 1.75     | 20305.81  | 10777.83  | 0.12            |
|                    |  |             |                |           |                |                |            |          |           |           | 0.11            |
| each 1             | 100000.  | 2641.00     | 18.35          | 27.29     | 21.37          | 27.42          | 0.000309   | 2.82     | 936.83    | 123.67    | 0.18            |

HEC-RAS Plan: NM Rev. Ex. (Continued)

| Reach                                   | River Sta   | Ex. (Continu<br>Q Total | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope   | Vel Chni   | Flow Area | Top Width | Froude # Chi |
|---|---|-------------------------|----------------|----------------|----------------|----------------|--------------|--|-----------|-----------|--------------|
|   |   | (cfs)                   | (ft)           | <b>(n</b> )    | (11)           | (n)            | (IVII)       | (ft/s)   | (sq ft)   | (m)       |              |
| reach 1                                 | 100000  | 3856.00                 | 18.35          | 28.67          | 22.19          | 28.86          | 0.000399     | 3.47   | 1110.80   | 129.36    | 0.21         |
| reach 1                                 | 100000.   | 5335.00                 | 18.35          | 29.19          | 23.08          | 29.51          | 0.000761     | 4.49   | 1266,99   | 747.91    | 0.28         |
| reach 1                                 | 100000  | 11115.00                | 1,8.35         | 30.51          | 25.89          | 30.60          | 0.000457     | 3.50   | 10950.69  | 10727.58  | 0.22         |
|   |   |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 96000   | 2641.00                 | 17.13          | 26.79          | 20.26          | 26.89          | 0.000220     | 2.48   | 1237.12   | 1044.89   | 0.15         |
| reach 1                                 | 98000   | 3856.00                 | 17.13          | 28.19          | 21.07          | 28.25          | 0.000211     | 2.21   | 3438.96   |           | 0.15         |
| reach 1                                 | 98000   | 5335.00                 | 17.13          | 28.66          | 21.91          | 28.71          | 0.000208     | 2.26   | 5370.80   |           | 0.15         |
| reach 1                                 | 98000   | 11115.00                | 17.13          | 29.89          | 24.59          | 29.94          | 0.000239     | 2.61   | 11174.62  | 5322.98   | 0.16         |
| 18/15/18/19/                            | traffina (  |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 97100   | 2641.00                 | 16.79          | 26.59          | 20.16          | 26.68          | 0.000235     |  |           |           | 0.16         |
| reach 1                                 | 97100   | 3856.00                 | 16.79          | 27.93          | 20.98          | 28.03          | 0.000262     | 2.72   | 2537.22   |           | 0.17         |
| reach 1                                 | 97100   | 5335.00                 | 16.79          | 28.43          | 21.83          | 28.50          | 0.000258     | 2.60   |           |           | 0.17         |
| reach 1                                 | 97100   | 11115.00                | 16.79          | 29.68          | 24.52          | 29.71          | 0.000254     | 2.51   | 12559.95  | 7512.49   | 0.16         |
| -h(1), c-ft/h(4)                        |   |                         |                |                |                |                |              |  | 1000.10   | 454.04    |              |
| reach 1                                 | 97052   | 2641.00                 | 16.79          | 26.58          | 20.16          | 26.67          | 0.000237     | 2.48   |           |           | 0.16<br>0.17 |
| reach 1                                 | 97052   | 3856.00                 | 16.79          | 27.92          | 20.97          | 28.02          | 0.000265     | 2.74   | 2502.38   |           | 0.17         |
| reach 1                                 | 97052   | 5335.00                 | 16.79          | 28.42          | 21.83          | 28.49<br>29.70 | 0.000267     | 2.60   |           |           | 0.17         |
| reach 1                                 | 97052   | 11115.00                | 16.79          | 29.66          | 24,53          | 29.70          | 0.000262     | 2.46   | 12414.12  | 7465.65   | 0.17         |
|   | 714 20 10 34 10 10 10 10 10 10 10 10 10 10 10 10 10 | 2011.00                 | 16.70          | 26 24          | 10.90          | 26.42          | 0.000246     | 2.60   | 1016.10   | 127.19    | 0.16         |
| reach 1                                 | 96000.<br>98000.                                    | 2641.00<br>3856.00      | 16.79<br>16.79 | 26.31<br>27.64 | 19.89<br>20.70 | 26.42<br>27.72 | 0.000246     |  |           |           | 0.18         |
| reach 1<br>reach 1                      | 98000   | 5335.00                 | 16.79          | 28.34          | 21.56          | 28.35          | 0.000269     | 1.20   |           |           | 0.08         |
| reach 1                                 | 96000   | 11115.00                |                | 29.57          | 24.31          | 29.57          | 0.000062     |  |           |           | 0.08         |
|   | 4 1000  | 11110,00                | 10.79          | 20.31          | 24.31          | 25.37          | 0.00002      | 1,20   | 2200.01   | 5525.51   | 0.30         |
| reach 1                                 | 94000   | 2641.00                 | 16.80          | 25.99          | 19.82          | 26.04          | 0.000136     | 1.91   | 1813.83   | 316.86    | 0.12         |
| reach 1                                 | 200   | 3856.00                 |                | 27.23          | 20.61          | 27.28          | 0.000160     |  |           |           | 0.13         |
| reach 1                                 | 94000.  | 5335.00                 |                | 28.10          | 21.49          |                | 0.000172     |  |           |           | 0.14         |
| reach 1                                 | 94000   | 11115.00                |                | 29.39          | 24.22          | +              | 0.000124     |  |           |           | 0.11         |
| - 67 T                                  |   | 1,710,00                |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 92434   | 2641.00                 | 16.79          | 25.64          | 19.58          | 25.75          | 0.000267     | 2.66   | 993.96    | 128.01    | 0.17         |
| reach 1                                 | 92434   | 3856.00                 |                | 26.73          | 20.37          | 26.91          | 0.000381     | 3.39   | 1144.90   | 300.14    | 0.20         |
| reach 1                                 | 92434   | 5335.00                 | 16.79          | 27.47          | 21.21          | 27.72          | 0.000506     | 4.08   | 2053.75   | 2129.04   | 0.24         |
| reach 1                                 | 92434   | 11115.00                | 16.79          | 28.79          | 23.87          | 29.02          | 0.000622     | 4.83   | 6917.94   | 5343.36   | 0.27         |
| PARTICIPATE OF                          |   |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 92376   | 2641.00                 | 16.79          | 25.62          | 19.58          | 25.73          | 0.000269     | 2.66   | 991.91    | 127.96    |              |
| reach 1                                 | 92378   | 3856.00                 | 16.79          | 26.71          | 20.37          | 26.89          | 0.000384     | 3.40   | 1138.64   | 240.85    |              |
| reach 1                                 | 92378   | 5335.00                 | 16.79          | 27.44          | 21.21          | 27.69          | 0.000519     | 4.12   | 1977.13   |           |              |
| reach 1                                 | 92376   | 11115.00                | 16.79          | 28.72          | 23.87          | 28.97          | 0.000671     | 5.00   | 6565.89   | 5095.28   | 0.28         |
| 17亿数百多层                                 | THE STATE OF THE                                    |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 92000   | 2641.00                 |                | 25.51          | 19.61          | 25.63          |              |  |           |           |              |
| reach 1                                 | 92000.  | 3856,00                 |                | 26.54          | 20.40          |                |              |  |           |           |              |
| reach 1                                 | 92000   | 5335.00                 |                | 27.19          |                |                | 0.000599     |  |           |           |              |
| reach 1                                 | 92000.  | 11115.00                | 16.79          | 28.44          | 23.96          | 28.69          | 0.000833     | 5.09   | 6548.97   | 5781,66   | 0.30         |
| <u> </u>                                |   |                         |                |                |                |                |              |  |           | 400.70    |              |
| reach 1                                 | 91033   | 2641.00                 |                | 25.19          |                |                |              |  |           |           |              |
| reach 1                                 | 91033   | 3856.00                 |                | 26.08          |                |                |              |  |           |           |              |
| reach 1                                 | 91033   | 5335.00                 |                | 26.65<br>27.65 |                |                |              |  |           |           |              |
| reach 1                                 | 91033   | 11115,00                | 16.48          | 27.00          | 24.00          | 27.08          | 0.000622     | 3.15   | 0338.00   | 4000.50   | 0.50         |
| reach 1                                 | 91030   | Inline Weir             |                |                |                |                | <del> </del> | +  | 1         |           |              |
| road: 1                                 | N COLO  | TIME TYON               |                | <del></del> -  |                |                | <u> </u>     | <del>                                     </del> |           |           |              |
| reach 1                                 | 91000   | 2641.00                 | 14.79          | 25.18          | 17.94          | 25.27          | 0.000206     | 2.48   | 1067.05   | 126.07    | 0.15         |
| reach 1                                 | 91000   | 3856.00                 |                |                |                | <del></del>    |              |  |           |           |              |
| reach 1                                 | 91000   | 5335.00                 |                |                |                |                |              |  |           |           | 0.20         |
| reach 1                                 | 91000   | 11115.00                |                |                |                |                |              |  |           |           |              |
|   | Market Constitution                                 |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 90000.  | 2641.00                 | 14.79          | 25.02          | 17.69          | 25.09          | 0.000150     | 2.16   | 1888.59   | 1251.32   | 0.13         |
| reach 1                                 | 90000.  | 3856.00                 |                |                |                |                |              |  |           |           | 0.13         |
| reach 1                                 | 90000.  | 5335.00                 | 14.79          | 26.50          | 19.38          | 26.55          | 0.000150     | 2.33   | 7010.70   | 4986.84   | 0.13         |
| reach 1                                 | 90000   | 11115.00                | 14.79          | 27.36          | 22.14          | 27.4           | 0.000271     | 1 2.75   | 12086.43  | 6764.63   | 0.17         |
| - 1.10                                  | u taka wasa ili.                                    |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 88000.  | 2641.00                 | 14.78          | 24.76          | 17.74          | 4 24.80        | 0.000132     | 1.96   | 3082.8    | 4 3057.74 |              |
| reach 1                                 | 88000   | 3856.00                 |                |                |                | 7 25.75        |              |  |           |           |              |
| reach 1                                 | 88000   | 5335.00                 |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 88000.  | 11115.00                | 14.78          | 26.94          | 22.26          | 26.96          | 0.000179     | 9 2.12   | 15221.9   | 5 8076.13 | 0.14         |
| 1 | and the   |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87169   | 2641.00                 |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87169   | 3856.00                 |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87169   | 5335.00                 |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87169   | 11115.00                | 14.78          | 26.79          | 22.40          | 26.8           | 0.00016      | 3 2.4  | 15332.5   | 3 8103.20 | 0.14         |
|   |   |                         |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87084   | 2641.00                 |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87084   | 3856.00                 |                |                |                |                |              |  |           |           |              |
| reach 1                                 | 87084   | 5335.00                 | 14.78          | 25.76          | 19.5           | 26.0           | 0.00063      | 8 4.5  | 5 1172.3  | 6269.4    | 0.27         |

| i satura di              | River Sta        | Q Total    | Min Ch El | W.S. Elev | Crit W.S. | E.G; Elev | E.G. Slope | Vel Chnl | Flow Area | Top Width          | Froude # Chi |
|--------------------------|------------------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|--------------------|--------------|
| each 1                   |                  | (cfs)      | (ft)      | (ft)      | (ft)      | (ft)      | (ft/ft)    | (ft/s)   | (sq ft)   | (ft)               | <b>)</b>     |
| BBC31.1                  | 87084            | 11115.00   | 14.78     | 26.77     | 22.40     | 26.81     | 0.000166   | 2.46     | 15213.05  | 8077.01            | 0.1          |
| each 1                   | 86000:           | 2044 20    |           |           |           |           |            |          |           |                    |              |
| each 1                   |                  | 2641.00    | 14.31     | 24.35     | 17.36     | 24.41     | 0.000153   | 2.11     | 2403.61   | 2191.50            | 0.13         |
| each 1                   | 86000            | 3856.00    | 14.31     | 25.28     | 18.19     | 25.31     | 0.000127   | 1.85     | 5496.71   | 3891.10            | 0.12         |
| each 1                   | 86000            | 5335.00    | 14.31     | 25.67     | 19.09     | 25.70     | 0.000147   | 2.04     | 7198.31   | 4842.02            | 0.13         |
| ****                     | 86000            | 11115.00   | 14.31     | 26.56     | 21.87     | 26.60     | 0.000214   | 2.52     | 12558.56  | 7120.40            | 0.15         |
| reach 1                  | 84000.           | 2000 00    |           |           |           |           |            |          |           |                    |              |
| reach 1                  |                  | 2668.00    | 13.56     | 24.00     | 16.51     | 24.08     | 0.000173   | 2.34     | 1141.71   | 127.67             | 0.14         |
| reach 1                  | 84000            | 3887.00    | 13.56     | 25.05     | 17.32     | 25.08     | 0.000100   | 1.88     | 5476.96   | 9090.32            | 0.11         |
| reach 1                  | 84000            | 5378.00    | 13.56     | 25.41     | 18.20     | 25.44     | 0.000116   | 1.97     | 8836.45   | 9326.84            | 0.11         |
| i decir p                | 84000            | 11080.00   | 13.56     | 26.22     | 20.91     | 26.24     | 0.000149   | 2.08     | 16479.58  | 9643.59            | 0.13         |
| reach 1                  |                  | 2222.22    |           |           |           |           |            |          |           |                    |              |
|                          | 82000            | 2668.00    | 12.94     | 23.64     | 16.03     | 23.73     | 0.000180   | 2.39     | 1114.30   | 123.92             | 0.14         |
| rear in 1<br>rear in 1   | 82000.<br>82000. | 3887.00    | 12.94     | 24.80     | 16.88     | 24.85     | 0.000137   | 2.02     | 5243.05   | 4403.34            | 0.12         |
| rearth 1<br>reach 1      |                  | 5378.00    | 12.94     | 25.06     | 17.80     | 25.12     | 0.000228   | 2.52     | 6767.91   | 10717.51           | 0.16         |
|                          | 82000.           | 11080.00   | 12.94     | 25.84     | 20.61     | 25.87     | 0.000231   | 2.27     | 15224.12  | 10807.67           | 0.15         |
|                          |                  |            |           |           |           |           |            |          |           |                    |              |
| re-xch 1                 | 81864            | 2668.00    | 12.94     | 23.64     | 15.92     | 23.71     | 0.000157   | 2.21     | 1206.07   | 148.59             | 0.13         |
| reuch 1                  | 81854            | 3887.00    | 12.94     | 24.68     | 16.74     | 24.81     | 0.000239   | 2.87     | 1352.92   | 5939.69            | 0.16         |
| reach 1                  | 81864            | 5378.00    | 12.94     | 25.02     | 17.61     | 25.09     | 0.000189   | 2.60     | 7045.40   | 11287.18           | 0.15         |
| each 1                   | 81854            | 11080.00   | 12.94     | 25.81     | 20.29     | 25.85     | 0.000181   | 2.63     | 16010.82  | 11365.93           | 0.15         |
| ng Series (Long. 1 de )  |                  |            |           |           |           |           |            |          |           |                    | <u></u>      |
| each 1                   | 81817            | 2668.00    | 12.94     | 23.63     | 15.92     | 23.71     | 0.000157   | 2.21     | 1205.24   | 146.01             | 0.13         |
| each 1                   | 81817            | 3887.00    | 12.94     | 24.67     | 16.74     | 24.80     | 0.000239   | 2.88     | 1351.59   | 5781.71            | 0.16         |
| each 1                   | 81817            | 5378.00    | 12.94     | 25.01     | 17.61     | 25.08     | 0.000192   | 2.62     | 6956.27   | 11286.89           | 0.15         |
| each 1                   | 81817            | 11080.00   | 12.94     | 25.80     | 20.29     | 25.84     | 0.000186   | 2.66     | 15851.94  | 11363.54           | 0.15         |
|                          |                  |            |           |           |           |           |            |          |           |                    |              |
| each 1                   | 80000.           | 2668.00    | 12.93     | 23.29     | 15.99     | 23.38     | 0.000201   | 2.48     | 1075.33   | 123.29             | 0.15         |
| each 1                   | 80000            | 3887.00    | 12.93     | 24.23     | 16.84     | 24.35     | 0.000258   | 2.85     | 3075.68   | 5088.13            | 0.17         |
| each 1                   |                  | 5378.00    | 12.93     | 24.43     | 17.74     | 24.58     | 0.000428   | 3.48     | 4224.96   | 6551.03            | 0.21         |
| each 1                   |                  | 11080.00   | 12.93     | 25.27     | 20.55     | 25.35     | 0.000394   | 3.48     | 12044.02  | 10722.74           | 0.21         |
|                          |                  |            |           |           |           |           |            |          |           |                    |              |
| each 1                   | 1.0000.          | 2668.00    | 12.96     | 22.82     | 16.07     | 22.92     | 0.000265   | 2.61     | 1184.78   | 766.57             | 0.17         |
| each 1                   | 78000            | 3887.00    | 12.95     | 23.61     | 16.93     | 23.72     | 0.000386   | 2.88     | 2828.53   | 3406.08            | 0.20         |
|                          | 78000            | 5378.00    | 12.95     | 23.90     | 17.87     | 23.94     | 0.000227   | 2.21     | 7445.38   | 7123.62            | 0.15         |
| each 1                   | 70000.           | 11080.00   | 12.95     | 24.67     | 20.72     | 24.70     | 0.000263   | 2.53     | 13862.62  | 9661,04            | 0.17         |
| المنزوق والماع المعاولات |                  |            |           |           |           |           |            |          | 10002.02  | 3001.04            | 0.17         |
|                          | 78000.           | 2668.00    | 12.94     | 22.29     | 15.91     | 22.40     | 0.000259   | 2.67     | 1015.30   | 681.25             | 0.17         |
| each 1                   |                  | 3887.00    | 12.94     | 23.03     | 16.73     | 23.10     | 0.000244   | 2.49     | 4536.97   | 5922.47            | 0.17         |
| each 1                   | 76000            | 5378.00    | 12.94     | 23.28     | 17.63     | 23.35     | 0.000311   | 2.78     | 6046.81   | 6532.27            | 0.18         |
| Bach 1                   | 76000            | 11080.00   | 12.94     | 24.00     | 20.36     | 24.06     | 0.000397   | 3.10     | 11406.48  | 8312.73            |              |
|                          | Telegran         |            |           |           |           |           |            | 5.10     | 11400.40  | 031273             | 0.20         |
| sech 1                   | 74000            | 2668.00    | 11.86     | 21.79     | 15.07     | 21.90     | 0.000249   | 2.64     | 1012.29   | 129.76             | 0.18         |
| ech 1                    | 74000            | 3887.00    | 11.88     | 22.55     | 15.95     | 22.62     | 0.000235   | 2.43     | 4899.95   | 6868.73            | 0.16         |
| each 1                   | 74000            | 5378.00    | 11.86     | 22.84     | 16.88     | 22.87     | 0.000184   | 2.19     | 9074.85   | 9596.82            | 0.16         |
| each 1                   | 74000            | 11080.00   | 11.86     | 23.37     | 19.69     | 23.40     | 0.000268   | 2.69     | 14164.50  | 9631.44            | 0.14         |
| the second               | 3 1 Significant  |            |           |           |           |           |            |          | 14104.00  | 3031.44            | 0.17         |
| each 1                   | 72000.           | 2668.00    | 10.58     | 21.36     | 13.83     | 21.45     | 0.000202   | 2.33     | 1146.65   | 146.94             | 0.45         |
| each 1                   | 72000.           | 3887.00    | 10.58     | 22.07     | 14.69     | 22.14     | 0.000231   | 2.41     | 4591.51   | 8010.77            | 0.15         |
| each 1                   | 72000.           | 5378.00    | 10.58     | 22.42     | 15.60     | 22.47     | 0.000216   | 2.38     | 7392.60   | 8014.19            | 0.16         |
| sach 1                   | 72000.           | 11080.00   | 10.58     | 23.10     | 18.36     | 23.11     | 0.000089   | 1.60     | 20921.31  | 10762.97           | 0.15         |
| 4                        | 7.75             |            |           |           |           |           |            |          | 25021,01  | 10102.91           | 0.10         |
|                          | 70000.           | 2668.00    | 10.48     | 20.95     | 13.58     | 21.05     | 0.000197   | 2.46     | 1162.68   | 973,73             | 0.45         |
| ech 1                    | 70000.           | 3887.00    | 10.48     | 21.52     | 14.45     | 21.62     | 0.000283   | 2.76     | 3465.40   | 5131.00            | 0.15         |
| ech 1                    | 70000.           | 5378.00    | 10.48     | 21.79     | 15.37     | 21.89     | 0.000398   | 3.12     | 4946.57   | 6093.17            | 0.17         |
| ech 1                    | 70000.           | 11080.00   | 10.48     | 22.75     | 18.20     | 22.80     | 0.000321   | 2.97     | 11432.06  | 6862.81            | 0.20         |
| organisation of          | 1,27             |            |           |           |           |           |            | 2.01     | 17-32.00  | J-5022.01          | 0.19         |
| ech 1                    | 69780            | 2668.00    | 10.48     | 20.92     | 13.48     | 21.00     | 0.000170   | 2.25     | 1183.42   | 3504.42            |              |
| ach 1                    | 69760            | 3887.00    | 10.48     | 21.39     | 14.29     | 21.54     | 0.000310   | 3.11     | 1248.72   | 7199.77            | 0.14         |
| ach 1                    | 69760            | 5378.00    | 10.48     | 21.80     | 15.16     | 21.82     | 0.000095   | 1.76     | 10792.03  |                    | 0.19         |
| ach 1                    | 69780            | 11080.00   | 10.48     | 22.74     | 17.86     | 22.75     | 0.000099   | 1.88     | 19099.44  | 8407.84<br>8941.39 | 0.10         |
|                          | 14 14 14 1       |            |           |           |           |           |            | 1.00     | 15035,44  | 0941.39            | 0.11         |
| ach 1                    | 69893            | 2668.00    | 10.48     | 20.90     | 13.48     | 20.98     | 0.000172   | 2.26     | 1180.39   | 3463.67            |              |
| ach 1                    | 69693            | 3887.00    | 10.48     | 21.36     | 14.29     | 21.51     | 0.000312   | 3.12     | 1245.64   | 3463.87            | 0.14         |
| ach 1                    | 69693            | 5378.00    | 10.48     | 21.79     | 15.15     | 21.81     | 0.000096   | 1.77     | 10735.31  | 7134.20            | 0.19         |
| ach 1                    | 69893            | 11080.00   | 10.48     | 22.73     | 17.86     | 22.75     | 0.000098   |          |           | 8394.57            | 0.10         |
|                          |                  |            |           |           |           | - EE. 13  | 0.000100   | 1.89     | 19038.40  | 8939.81            | 0.11         |
| ech 1                    | 68373            | 2920.00    | 10.48     | 20.86     | 13.69     | 20.00     | 0.00000    |          | 005155    |                    |              |
| ech 1                    | 68373            | 4267.00    | 10.48     | 21.38     |           | 20.86     | 0.000036   | 0.92     | 9854.83   | 7248.54            | 0.06         |
| ach 1                    | 68373            | 5813.00    | 10.48     |           | 14.55     | 21.38     | 0.000028   | 0.84     | 16279.57  | 10765.14           | 0.05         |
| ach 1                    | 68373            | 11410.00   | 10.48     | 21.73     | 15.39     | 21.73     | 0.000029   | 0.89     | 20044.12  | 10779.69           | 0.06         |
|                          | 1                | 1 14 10.00 | 10.48     | 22.66     | 17.86     | 22.66     | 0.000034   | 1.03     | 30126.83  | 10815.41           | 0.06         |
|                          |                  | i i        | 1         | t t       | I .       | I         | <b>I</b>   | 1        | i i       |                    |              |
| ach 1                    | 67000            | 2920.00    | 10.28     | 20.75     | 13.57     | 20.77     | 0.000082   |          |           |                    |              |

HEC-RAS Plan: NM Rev Ex (Continued)

| HEC-RAS Pla                | n: NM Rev<br>RiverSta | Ex (Contin<br>Q Total | Min Ch El    | W.S. Elev | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area            | Top Width           |              |
|----------------------------|-----------------------|-----------------------|--------------|-----------|----------------|----------------|------------|--------------|----------------------|---------------------|--------------|
|                            | NATIONAL PROPERTY.    | (cfs)                 | (R)          | (ft)      | (ft)           | (ft)           | (furi)     | (ft/s)       | (sq ft)              | (ft)                | Froude # Chl |
| reach 1                    | 67000                 | 5813.00               | 10.28        | 21.65     | 15.41          | 21.66          | 0.000068   | 1.27         | 14359.64             | 9430.38             | 0.08         |
| reach 1                    | 87000                 | 11410.00              | 10.28        | 22.59     | 18,13          | 22.59          | 0.000067   | 1.32         | 23227.78             | 9458.67             | 0.08         |
| AR THE                     |                       |                       |              |           |                |                |            |              |                      |                     |              |
| reach 1                    | 66000.                | 2920.00               | 10.28        | 20.62     | 13.73          | 20.66          | 0.000151   | 1.99         | 4219.30              | 5155.21             | 0.13         |
| reach 1                    | 66000.                | 4267.00               | 10.28        | 21.22     | 14.67          | 21,24          | 0.000096   | 1.53         | 9360.15              |                     | 0.10         |
| reach 1                    | 66000.                | 5813.00               | 10.28        | 21.57     | 15.62          | 21.58          | 0.000098   | 1.45         | 12180.74             | 8086.19             | 0.10         |
| reach 1                    | 68000.                | 11410.00              | 10.28        | 22.52     | 18.40          | 22.52          | 0.000094   | 1.46         | 19822.23             | 8109.21             | 0.10         |
| reach 1                    | 65430                 | 2920.00               | 10.28        | 20.41     | 12.50          | 20.54          | A 00000F   |              |                      |                     |              |
| reach 1                    | 65430                 | 4267.00               | 10.28        | 21.17     | 13.69          | 20.54          | 0.000295   | 2.90<br>1.64 | 1008.32              | 5092.74             | 0.18         |
| reach 1                    | 65430                 | 5813.00               | 10.28        | 21.52     | 15.58          | 21.53          | 0.000093   | 1.54         | 9895.89<br>13388.77  | 9457.22<br>10453.84 | 0.10         |
| reach 1                    | 65430                 | 11410.00              | 10.28        | 22.47     | 18.38          | 22.48          | 0.000075   | 1.47         | 24296.12             | 11800.00            | 0.10         |
|                            |                       |                       |              |           |                |                |            |              | 24200.12             | 71000.00            | 0.03         |
| reach:1                    | 65374                 | 2920.00               | 10.28        | 20.39     | 13.69          | 20.52          | 0.000297   | 2.90         | 1006.18              | 5057.59             | 0.18         |
| reach 1                    | 66374                 | 4267.00               | 10.28        | 21.16     | 14.64          | 21.18          | 0.000093   | 1.66         | 9822.27              | 9433.97             | 0.10         |
| reach 1                    | 85374                 | 5813.00               | 10.28        | 21.51     | 15.58          | 21.52          | 0.000093   | 1.57         | 13323,98             | 10436.47            | 0.10         |
| reach 1                    | 85374                 | 11410.00              | 10.28        | 22.46     | 18.37          | 22.47          | 0.000075   | 1.50         | 24241.77             | 11800.00            | 0.09         |
| Control of Control Control | (2) (Na               | 2022.00               |              | 40.07     |                |                |            |              |                      |                     |              |
| reach 1                    | 64000.<br>64000.      | 2920.00<br>4267.00    | 10.18        | 19.97     | 13,35          | 20.08          | 0.000332   | 2.73         | 1071.46              | 157.03              | 0.18         |
| reach 1                    | 64000                 | 5813.00               | 10.18        | 20.99     | 14.21<br>15.08 | 21.02          | 0.000140   | 1.83         | 6562.86              | 4997.62             | 0.12         |
| reach 1                    | 64000                 | 11410.00              | 10.18        | 22.38     | 17.68          | 21.43<br>22.39 | 0.000053   | 1.17<br>1.24 | 16356.01<br>27148.75 | 10359.41            | 0.08         |
| 24 55 65                   |                       | ,,,,,,,,,             |              | 22.00     | ,7.00          | 22.55          | 0.00003    | 1.24         | 2/ 140./5            | 11636,78            | 0.08         |
| reach 1                    | 62000.                | 2920.00               | 10.03        | 19.15     | 13.25          | 19.29          | 0.000475   | 3.00         | 973.27               | 162.61              | 0.22         |
| reach 1                    | 62000                 | 4267.00               | 10.03        | 20.76     | 14.15          | 20.78          | 0.000103   | 1.57         | 7124.50              | 5034.83             | 0.10         |
| reach 1                    | 62000.                | 5813.00               | 10.03        | 21.26     | 15.04          | 21.28          | 0.000102   | 1.62         | 10013.67             | 6477.68             | 0.10         |
| reach 1                    | 62000,                | 11410.00              | 10.03        | 22.21     | 17.66          | 22.23          | 0.000130   | 1,95         | 16905.28             | 7673.85             | 0.12         |
| MARINE POLICE              |                       |                       |              |           |                |                |            |              |                      |                     |              |
| reach 1                    | 60000.                | 2920.00               | 9.59         | 18.23     | 12.81          | 18.40          | 0.000417   | 3.24         | 902.18               | 120.31              | 0.21         |
| reach 1                    | 60000.                | 4267.00<br>5813.00    | 9.59<br>9.59 | 20.30     | 13.69          | 20.42          | 0.000387   | 3.01         | 3142.92              | 4934.87             | 0.20         |
| reach 1                    | 60000                 | 11410.00              | 9.59         | 20.91     | 14.57<br>17.18 | 20.97          | 0.000271   | 2.57         | 7270.11              | 8447.08             | 0.17         |
|                            | J                     | 11410.00              | 5.05         | 21.09     | 17.10          | 21.91          | 0.000192   | 2.29         | 16401.09             | 10139.41            | 0.14         |
| reach 1                    | 58000.                | 2920.00               | 9.33         | 17.10     | 12.83          | 17.33          | 0.000701   | 3.85         | 757.78               | 116.03              | 0.27         |
| reach 1                    | 58000                 | 4267.00               | 9.33         | 19.13     | 13.72          | 19.42          | 0.000648   | 4.26         | 1001.70              | 123.64              | 0.26         |
| reach 1                    | 58000.                | 5813.00               | 9.33         | 20.60     | 14.60          | 20.62          | 0.000119   | 1.92         | 11888.65             | 10802.44            | 0.11         |
| reach 1                    | 58000.                | 11410.00              | 9.33         | 21.67     | 17.27          | 21.67          | 0.000079   | 1.45         | 23621.97             | 11215.90            | 0.09         |
| TVEY BE                    | A MERLEY WAS A        |                       |              |           |                |                |            |              |                      |                     |              |
| reach 1                    | 57448                 | 2920.00               | 9.38         | 16.66     | 12.80          | 16.91          | 0.000825   | 3.99         | 731.24               | 120.64              | 0.29         |
| reach 1                    | 57448                 | 4267.00               | 9.38         | 18.76     | 13.68          | 19.04          | 0.000706   | 4.29         | 994.32               | 130.39              | 0.27         |
| reach 1                    | 57448<br>57448        | 5813.00               | 9.38         | 20.32     | 14.56          | 20.49          | 0.000460   | 3.79         | 3815.76              | 4759.87             | 0.23         |
| reach 1                    | 3/440                 | 11410.00              | 9.38         | 21.52     | 17.16          | 21.59          | 0.000300   | 3.25         | 12061.20             | 8906.78             | 0.18         |
| reach 1                    | 57404                 | 2920.00               | 9.38         | 16.62     | 12.79          | 16.87          | 0.000842   | 4.02         | 726.27               | 120.45              | 0.00         |
| reach 1                    | 57404                 | 4267.00               | 9.38         | 18.72     | 13.68          | 19.01          | 0.000716   | 4.02         | 989.82               | 130.23              | 0.29<br>0.28 |
| reach 1                    | 57404                 | 5813.00               | 9.38         | 20.28     | 14.56          | 20,47          | 0.000484   | 3.88         | 3640.46              | 4582.79             | 0.23         |
| reach 1                    | 57404                 | 11410.00              | 9.38         | 21.50     | 17.16          | 21.57          | 0.000308   | 3.30         | 11883.52             | 8838.26             | 0.19         |
| A PART OF THE              |                       |                       |              |           |                |                |            |              |                      |                     |              |
| reach 1                    | 56867                 | 2920.00               | 9.80         | 16.23     | 12.56          | 16.44          | 0.000739   | 3.65         | 800.06               | 139.66              | 0.27         |
| reach 1                    | 56867                 | 4267.00               | 9.80         | 18.42     | 13.32          | 18.65          | 0.000573   | 3.82         | 1117.79              | 149.93              | 0.25         |
| reach 1                    | 56867                 | 5813.00               | 9.80         | 20.04     | 14.10          |                | 0.000431   | 3.62         | 3070.15              | 2442.65             | 0.22         |
| reach 1                    | 56867                 | 11410.00              | 9.80         | 21.16     | 16,41          | 21.34          | 0.000595   | 4.36         | 5976.79              | 2955.76             | 0.26         |
| reach 1                    | 56865                 | Inline Weir           |              |           |                |                |            |              |                      |                     |              |
|                            | 1 2000                | HIII TO YVOIL         |              |           |                |                |            |              |                      |                     |              |
| reach 1                    | 56857                 | 2920.00               | 7.31         | 16.22     | 10.17          | 16.33          | 0.000268   | 2.67         | 1095.43              | 141.95              | 0.17         |
| reach 1                    | 56857                 | 4267.00               | 7.31         | 18.42     | 10.97          | 18.56          | 0.000266   | 3.01         | 1418.02              | 151.72              | 0.17         |
| reach 1                    | 56857                 | 5813.00               | 7.31         | 20.04     | 11.77          | 20.17          | 0.000240   | 3.09         | 3395.95              | 2442.06             | 0.17         |
| reach 1                    | 56857                 | 11410.00              | 7.31         | 21.14     | 14.16          | 21.32          | 0.000394   | 4.14         | 6254.00              | 2925.11             | 0.22         |
|                            | Battle 1              |                       |              |           |                |                |            |              |                      |                     |              |
| reach 1                    | 56000                 | 2920.00               | 6.74         | 16.02     | 9.60           | 16.12          | 0.000225   | 2.52         | 1157.59              | 142.00              | 0.16         |
| reach 1                    | 56000.                | 4267.00               | 6.74         | 18.22     | 10.37          | 18.34          | 0.000229   | 2.88         | 1502.07              | 242.12              | 0.16         |
| reach 1                    | 56000.                | 5813.00               | 6.74         | 19.79     | 11,16          | 19.95          | 0.000257   | 3.27         | 2049.95              | 396.38              | 0.17         |
| reach 1                    | 56000.                | 11410.00              | 6.74         | 20.95     | 13.52          | 21.03          | 0.000238   | 3,11         | 8135.10              | 2738.38             | 0.17         |
| reach 1                    | 54000.                | 2920.00               | 6.00         | 15.62     | D 04           | 45.74          | 0.000185   | 0.54         | 4040.00              | 447.01              |              |
| reach 1                    | 54000.                | 4267.00               | 6.00         | 17.78     | 8.81<br>9.57   | 15.71<br>17.89 | 0.000185   | 2.34         | 1246.99              | 147.34              | 0.14         |
| reach 1                    | 54000.                | 5813.00               | 6.00         | 19.26     | 10.33          | 19.41          | 0.000220   | 2.71<br>3.16 | 1576.69<br>1840.37   | 169.90<br>190.82    | 0.16<br>0.18 |
| reach 1                    | 54000.                | 11410.00              | 6.00         | 20.61     | 12.64          | 20.65          | 0.000263   | 2,44         | 12036.90             | 4526.34             | 0.18         |
|                            |                       |                       |              |           |                |                | 5.5001-47  | 2,44         | 12000.50             | -020.34             | 0.13         |
| reach 1                    | 52275                 | 2923.00               | 5.83         | 15.30     | 8.55           | 15.38          | 0.000190   | 2.34         | 1249.36              | 151.79              | 0.14         |
| reach 1                    | 52275                 | 4261.00               | 5.83         | 17.40     | 9.30           | 17.51          | 0.000221   | 2.68         | 1588.19              | 175.68              | 0.16         |
| reach 1                    | 52275                 | 5802.00               | 5.83         | 18.74     | 10.09          | 18.90          | 0.000316   | 3.15         | 1844.38              | 210.60              | 0.19         |
| reach 1                    | 52275                 | 10992.00              | 5.83         | 20.38     | 12.24          | 20.42          | 0.000136   | 2.16         | 13560.31             | 10324.29            | 0.12         |

|                           |  |                    | Min Ch El | W.S. Elev      | Crit W.S.     | E.G. Elev      | E.G. Stope           | Vel Chril    | Flow Area           | Top Width         | Froude # Chi |
|---------------------------|--|--------------------|-----------|----------------|---------------|----------------|----------------------|--------------|---------------------|-------------------|--------------|
|                           |  | (cfs)              | (ft)      | (ft)           | (ft)          | (ft)           | (ft/ft)              | (fVs):       | (sq ft)             | (ft)              | e Garage     |
|                           |  |                    |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 51585                                    | 2923.00            | 5.69      | 15.12          | 8.68          | 15.23          | 0.000260             | 2.69         | 1087.09             | 135.30            | 0.17         |
| reach 1                   | 51585                                    | 4261.00            | 5.69      | 17.19          | 9.51          | 17.34          | 0.000274             | 3.10         | 1376.53             | 143.59            | 0.18         |
| reach 1<br>reach 1        | 51585                                    | 5802.00            | 5.69      | 18.43          | 10.37         | 18.65          | 0.000394             | 3.70         | 1566.48             | 162.67            | 0.21         |
| leach 1                   | 131000                                   | 10992.00           | 5.69      | 20.24          | 12.73         | 20.32          | 0.000216             | 3.05         | 12450,32            | 8971.28           | 0.16         |
| reach 1                   | 51519                                    | 2923.00            | 5.69      | 15.10          | 8.68          | 15.24          | 0.000000             | 2.60         | 4004.57             | 125 00            |              |
| reach 1                   | 51519                                    | 4261.00            | 5.69      | 17.17          | 9.51          | 15.21<br>17.32 | 0.000262             | 2.69         | 1084.67             | 135.22            | 0.17         |
| reach 1                   | 51519                                    | 5802.00            | 5.69      | 18.41          | 10.37         | 18.62          | 0.000276             | 3.10         | 1373.85             | 143.54            | 0.18         |
| reach 1                   | 51519                                    | 10992.00           | 5.69      | 20.23          | 12.73         | 20.30          | 0.000397             | 3.71         | 1561.99<br>12303.79 | 162.67            | 0.21         |
| DEM COLUMN                |  | 10552.00           | 3.03      | 20.23          | 12.73         | 20.30          | 0.000220             | 3.08         | 12303.79            | 8910.64           | 0.16         |
| reach 1                   | 50000.                                   | 2923.00            | 5.58      | 14.73          | 8.42          | 14.83          | 0.000235             | 2.52         | 1160.53             | 148.96            | 0.44         |
| reach 1                   | 50000.                                   | 4261.00            | 5.58      | 16.74          | 9.20          | 16.87          | 0.000233             | 2.85         | 1496.06             | 198.07            | 0,16         |
| reach 1                   | 50000.                                   | 5802.00            | 5.58      | 18.18          | 9.99          | 18.23          | 0.000313             | 2.18         | 4724.94             | 1438.84           | 0.13         |
| reach:1                   | 50000                                    | 10992.00           | 5.58      | 20.12          | 12.21         | 20.13          | 0.000060             | 1.53         | 18496.57            | 5872.02           | 0.06         |
| THE PROPERTY.             | ntah _ 1742                              |                    |           |                |               | 20.10          | 0.00000              |              | 10430.07            | 3072.02           | 0.00         |
| reach 1                   | 48000.                                   | 2923.00            | 4.89      | 14.29          | 7.71          | 14.38          | 0.000214             | 2.35         | 1242.18             | 164.33            | 0.15         |
| reach 1                   | 48000.                                   | 4261.00            | 4.89      | 16.17          | 8.46          | 16.29          | 0.000264             | 2.68         | 1591.20             | 202.84            | 0.17         |
| reach 1                   | 48000.                                   | 5802.00            | 4.89      | 17.88          | 9.23          | 17.93          | 0.000144             | 2.19         | 4044.99             | 923.03            | 0.13         |
| reach 1                   | 48000.                                   | 10992.00           | 4.89      | 19.97          | 11.36         | 19.99          | 0.000084             | 1.87         | 18248.76            | 8780.13           | 0.10         |
| and the second            |  |                    |           |                |               |                |                      |              |                     |                   | 3.1          |
| reach 1                   | 47232                                    | 2923.00            | 4.94      | 14.06          | 8.02          | 14.18          | 0.000295             | 2.77         | 1056.82             | 139.55            | 0.18         |
| reach 1                   | 47232                                    | 4261.00            | 4.94      | 15.89          | 8.86          | 16.05          | 0.000329             | 3.22         | 1321.65             | 150.10            | 0.19         |
| reach 1                   | 47232                                    | 5802.00            | 4.94      | 17.52          | 9.69          | 17.73          | 0.000404             | 3.67         | 1580.42             | 171.84            | 0.21         |
| reach 1                   | 47232                                    | 10992.00           | 4.94      | 19.87          | 12.04         | 19.91          | 0.000154             | 2.37         | 13059.64            | 6091.23           | 0.13         |
|                           | r de garetter                            |                    |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 46000.                                   | 2923.00            | 4.90      | 13,73          | 7.80          | 13.83          | 0.000266             | 2.62         | 1173.60             | 176.29            | 0.17         |
| reach 1                   | 46000.                                   | 4261.00            | 4.90      | 15.55          | 8.59          | 15.67          | 0.000273             | 2.95         | 1789.56             | 614.24            | 0.17         |
| reach 1                   | 46000                                    | 5802.00            | 4.90      | 17.22          | 9.41          | 17.33          | 0.000225             | 2.91         | 3038.19             | 813.45            | 0.16         |
| reach 1                   | 46000.                                   | 10992.00           | 4.90      | 19.75          | 11.70         | 19.77          | 0.000075             | 1.74         | 18112.12            | 7682.60           | 0.09         |
| والمهورات مدارية والمهارة | to and the state of the                  |                    |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 44000.                                   | 2923.00            | 4.68      | 13.19          | 7.35          | 13.30          | 0.000267             | 2.62         | 1115.02             | 147.46            | 0.17         |
| reach 1                   | 44000.                                   | 4261.00            | 4.68      | 14.95          | 8.10          | 15.10          | 0.000297             | 3.09         | 1380.68             | 154.28            | 0.18         |
| reach 1                   | 44000                                    | 5802.00            | 4,68      | 16.55          | 8.87          | 16.74          | 0.000384             | 3.53         | 1641.47             | 181.24            | 0.21         |
| reach 1                   | 44000                                    | 10992.00           | 4.68      | 19.53          | 11.02         | 19.57          | 0.000134             | 2.29         | 12524.35            | 5790.96           | 0.12         |
| <u> </u>                  |  |                    |           |                |               |                |                      | -            |                     |                   |              |
| reach 1                   | 43141                                    | 2923.00            | 4.68      | 12.96          | 7.31          | 13.07          | 0.000274             | 2.62         | 1117.46             | 151.96            | 0.17         |
| reach 1                   | 43141                                    | 4261.00            | 4.68      | 14.70          | 8.04          | 14.84          | 0.000303             | 3.07         | 1387.45             | 159.02            | 0.18         |
| reach 1                   | 43141                                    | 5802.00            | 4.68      | 16,24          | 8.79          | 16.43          | 0.000341             | 3.54         | 1673.15             | 328.56            | 0.20         |
| reach 1                   | 43141                                    | 10992.00           | 4.68      | 19.47          | 10.89         | 19.51          | 0.000134             | 2.21         | 13116.65            | 6340.46           | 0.12         |
|                           | 40044                                    |                    |           | 40.00          |               |                |                      |              |                     |                   |              |
| reach 1                   | 42941                                    | 2923.00            | 4.24      | 12.93          | 7.10          | 13.02          | 0.000243             | 2.44         | 1198.22             | 166.31            | 0.16         |
| reach:1                   | 42941                                    | 4261.00<br>5802.00 | 4.24      | 14.65          | 7.83          | 14.78          | 0.000266             | 2.85         | 1492.56             | 174.52            | 0.17         |
| reach 1                   | 42941                                    | 10992.00           | 4.24      | 16.19<br>19.44 | 8.56<br>10.62 | 16,36          | 0.000296             | 3.28         | 1795.53             | 322.40            | 0.19         |
| loaci i                   | 142841                                   | 10992.00           | 4.24      | 19.44          | 10.62         | 19.49          | 0.000246             | 2.38         | 10362.11            | 6424.09           | 0.16         |
| reach 1                   | 42938                                    | Inline Weir        |           |                |               |                |                      |              |                     |                   |              |
|                           | 72.000                                   | DIRECTO VIGI       |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 42932                                    | 2923.00            | 3.60      | 12.92          | 6.12          | 12.99          | 0.000151             | 2.08         | 1405.39             | 172.57            | 0.13         |
| reach 1                   | 42932                                    | 4261.00            | 3.60      | 14.65          | 6.82          | 14.74          | 0.000176             | 2.49         | 1708.68             | 179.23            | 0.14         |
| reach 1                   | 42832                                    | 5802.00            | 3.60      | 16.18          | 7.53          | 16.32          | 0.000206             | 2.91         | 2017.85             | 310.56            | 0.16         |
| reach 1                   | 42932                                    | 10992.00           | 3.60      | 19.43          | 9.53          | 19.48          | 0.000217             | 2.42         | 10270.86            | 6373.37           | 0.19         |
| u kita ji ili njigotig    | en e |                    |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 42366                                    | 2923.00            | 3.60      | 12.89          | 5.60          | 12.93          | 0.000083             | 1.59         | 1843.06             | 217.71            | 0.10         |
| reach 1                   | 42366                                    | 4261.00            | 3.60      | 14.60          | 6.18          | 14.66          | 0.000099             | 1.92         | 2220.83             | 223.67            | 0.1          |
| reach 1                   | 42366                                    | 5802.00            | 3.60      | 16,14          | 6.74          | 16.21          | 0.000116             | 2.26         | 2567.19             | 227.44            | 0.12         |
| reach 1                   | 42366                                    | 10992.00           | 3.60      | 19,36          | 8.40          | 19.43          | 0.000105             | 2.44         | 10565.37            | 5732.12           | 0.12         |
| 1,11                      | operation of                             |                    |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 42313                                    | 2923.00            | 3.60      | 12.88          | 5.60          | 12.92          | 0.000083             | 1.59         | 1840.88             | 217.66            | 0.10         |
| reach 1                   | 42313                                    | 4261.00            | 3.60      | 14.59          | 6.16          | 14.65          |                      | 1.92         | 2218.18             | 223.64            | 0.1          |
| reach 1                   | 42313                                    | 5802.00            | 3.60      | 16.12          | 6.74          | 16.20          | 0.000117             | 2.26         | 2564.02             | 227.40            | 0.12         |
| reach 1                   | 42313                                    | 10992.00           | 3.60      | 19.35          | 8.40          | 19.42          | 0.000105             | 2.44         | 10530.12            | 5718.14           | 0.13         |
| <u> </u>                  | <del></del>                              | <del> </del>       |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 42000.                                   | 2923.00            | 3.60      | 12.86          | 5.52          | 12.89          | 0.000075             | 1.52         | 1920.13             | 223.46            |              |
| reach 1                   | 42000.                                   | 4261.00            | 3.60      | 14.56          | 6.06          | 14.61          | 0.000090             | 1.85         | 2306.30             | 229.46            | 0.10         |
| reach 1                   | 42000.                                   | 5802.00            | 3.60      | 16.09          | 6.62          | 16.16          |                      | 2.18         | 2661.29             | 234.86            | 0.1          |
| reach 1                   | 42000.                                   | 10992.00           | 3.60      | 19.29          | 8.21          | 19.38          | 0.000120             | 2.64         | 9478.61             | 6535,18           | 0.1          |
| 1                         | -  | <del> </del>       |           |                |               |                |                      |              |                     |                   |              |
|                           | 40000.                                   | 2923.00            | 3.15      | 12.70          | 5.17          | 12.74          |                      | 1.50         | 1952.51             | 226.03            | 0.0          |
| reach 1                   |  | 4261.00            | 3.15      | 14.38          | 5.72          | 14.43          |                      | 1.82         | 2334.90             | 231.47            | 0.1          |
| reach 1                   | 40000.                                   |                    |           |                |               |                |                      |              |                     |                   |              |
| reach 1                   | 40000.                                   | 5802.00            | 3.15      | 15.88          | 6.29          | 15.95          | 0.000105             | 2.16         | 2685.71             | 236.03            | 0.1          |
| reach 1                   |  |                    |           | 15.88<br>18.94 | 6.29<br>7.89  | 15.95<br>19.09 | 0.000105<br>0.000169 | 2.16<br>3.13 | 2685.71<br>4650.62  | 236.03<br>2999.76 | 0.1<br>0.1   |
| reach 1                   | 40000.                                   | 5802.00            | 3.15      |                | 7.89          | 19.09          | 0.000169             |              | 4650.62             | 2999.76           | 0.1          |

HEC-RAS Plan: NM Rev Ex (Continued) Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. Vel Chnl E.G. Elev E.G. Slope Flow Area Top Width Froude # Chi (cfs) (ft/ft) (ff)  $(\Pi)$ (ft/s) (8q ft) (ft) reach 1 38000 4261.00 14 19 5.63 14.24 1.84 0.000090 2317 41 232 22 0.10 38000 reach 1 5802.00 3.14 15.66 6.20 15.74 0.000108 2 18 2663.29 237.32 0.11 reach 1 38000 10992.00 3 14 18.56 7.81 18,73 0.000189 3364.60 3.27 246.55 0.16 reach 1 36000 2923.00 3.15 12.39 5.13 12.43 0.000083 1.58 1845.12 217.20 0.10 reach 1 36000 4261.00 3.15 13.98 5.69 14.04 0.000102 1.94 2196.30 222.82 0 11 36000. 5802.00 reach t 3.15 15.41 15 50 6.26 0.000124 2.30 2518.14 227.92 0.12 reach 1 36000 10992.00 3.15 18.12 7.89 18.31 0.000225 3.49 3149.04 237.61 0.17 reach 1 34000 2923.00 3.16 12.21 5.23 12.25 0.000095 1.65 1774.90 220.28 0.10 reach 1 34000 4261.00 3.16 13.76 5.80 13.82 0.000116 2.01 2122.78 227.31 0.12 34000 5802.00 reach 1 3.16 15.14 6,39 15.23 0.000140 2.38 2440.01 231.92 0.13 reach 1 34000 10992.00 3.16 17.62 8.06 17.83 0.000259 3.63 3025.65 240.40 0.18 mach 1 3254R 2923.00 3.16 12.06 5.30 12.11 1.69 0.000101 1728.60 216.60 0.11 4261.00 reach 1 32548 3.16 13.58 5.89 13.65 0.000124 2.07 2061.86 221.62 0.12 reach 1 5802.00 3.16 14.93 6.48 15.02 0.000151 2.46 2362.39 226.07 0.13 32548 10992.00 reach 1 3.16 17.20 8.13 17.43 0.000292 3.81 2885.66 233,61 0.19 32504 2923.00 3.16 reach 1 12.06 5.30 12.10 0.000102 1.69 1727.62 216.58 0.11 reach 1 32504 4261.00 3.16 13.58 5.89 13.64 0.000124 2.07 2060.63 221.61 0.12 reach 1 32504 5802.00 3.16 14.92 6.48 15.01 0.000151 2.46 2360.86 226.04 0.13 32504 10992.00 3.16 17.19 8.13 reach 1 17.42 0.000293 3.81 2882.53 233.57 0.19 2923.00 3.16 12.01 reach 1 32000 5.19 12.05 0.000092 163 1794.48 221.27 0.10 reach 1 32000 4261.00 3.16 13.52 5.74 13 58 0.000115 2.00 2132.58 226.71 0.11 reach 1 32000 5802.00 3.16 14.85 6.30 14.94 0.000140 2.38 2437.08 231.50 0.13 10992.00 reach 1 32000 3.16 17.05 7.90 17.26 0.000307 3.70 2972.4 261.15 0.19 2923.00 reach 1 30000 2.92 11.84 4.88 11.87 0.000085 1.58 1845 37 222 78 0.10 30000 4261.00 2.92 13.30 reach 1 5.43 13.36 0.000108 1.96 2174.97 227.34 0.11 reach 1 30000 5802.00 2.92 14.58 5.98 14 66 0.000135 2.35 2467.55 231.30 0.13 reach 1 30000 10992.00 2.92 16.51 7.57 0.000257 16,69 3.56 4631.40 3022.67 0.18 3104.00 2.90 reach 1 29585 11.79 5.02 11.83 0.000108 1.76 1759.85 216.40 0.11 29585 4305.00 2.90 13.24 reach 1 5 53 13.31 0.000124 2.07 2079.52 221.80 0.12 reach 1 29585 5837.00 2.90 14.51 6.10 14.60 0.000153 2,47 2362.37 226.47 0.13 reach 1 29585 10969.00 2.90 16.32 7.70 16,56 0.000328 3.95 2779.83 4687.42 0.20 reach 1 29523 3104.00 2.90 11.78 5.02 11.83 1.77 0.000108 1758.38 216.37 0 11 29523 4305.00 2.90 13.24 5.53 reach 1 0.000124 13.30 2.07 2077.79 221.77 0.12 29523 5837.00 reach 1 2.90 14.50 6.10 14.59 0.000154 2.47 2360.16 226.43 0.13 reach 1 29523 10969.00 2 90 16 30 7.70 16.54 0.000330 3.95 2774.83 4682.65 0.20 reach 1 28000. 3104.00 2.90 11.61 5.03 11.66 0.000109 1.75 1774.30 223.05 0.11 reach 1 28000 4305.00 2.90 13.05 5.54 13.11 0.000124 2097.68 2.05 227.62 0.12 5837.00 reach 1 28000 2.90 14.26 6.10 14.36 0.000154 2.46 2376.44 231.49 0.14 16.05 reach 1 28000 10969.00 2.90 7.69 16.14 0.000175 2.86 8316.27 3654.83 0.15 reach 1 26000 3104.00 2 90 11 37 5.04 11.42 0.000125 1.83 1691.68 219.83 0.12 26000. 4305.00 2.90 12.77 5.55 12.84 reach 1 0.000142 2.15 2003.68 225.23 0.13 reach 1 26000 5837.00 2.90 13.95 6.12 14.04 0.000170 2.48 2771.55 689.08 0.14 10969.00 26000 2.90 15.55 reach 1 7.74 15.69 0.000304 3.32 6400.69 4605.90 0.19 reach 1 24000 3104.00 2.90 11.11 4.93 11 16 0.000127 1.83 1697.44 222.65 0.12 reach 1 24000 4305.00 2.90 12.48 5.41 12.55 0.000142 2.09 2471.99 1207.89 0.13 5837.00 reach 1 24000 2.90 13.65 5.96 13.72 0.000147 2.18 4280.29 1816.29 0.13 reach 1 24000 10969.00 2.90 15.49 7.52 15.49 0.000034 1,12 23954.01 8125.62 0.06 reach 1 22000 3104.00 2.90 10.84 4.92 10.90 0.000137 1 87 1658 59 222 69 0.12 reach 1 22000 4305.00 2.90 12.17 5 39 12 24 0.000156 2.20 1964.21 239.07 0.13 22000 5837.00 2.90 13.27 5.93 13.37 0.000195 reach 1 2.64 2243.17 322.78 0.15 10969.00 reach 1 22000 2.90 15.10 7.48 15.32 0.000348 3.89 3790.55 1505.58 0.20 20000 3104.00 2.23 10.56 4.53 reach 1 10.62 0.000144 1.93 1610.45 215.16 0.12 4305.00 2.23 11.84 5 03 reach 1 20000 1192 0.000168 2 28 1889 45 220.05 0.14 reach 1 20000 5837.00 2.23 12.84 5 59 12.96 0.000219 2.76 2111.72 223.87 0.16 20000 10969.00 2.23 14.14 7.19 14.47 0.000516 each 1 4.56 2406.41 228.84 0.25 19889 3104.00 2.23 10.54 4.62 10.60 reach 1 0.000157 1.99 1561.50 212.54 0.13 19889 4305.00 2.23 11.82 5.14 11 91 0.000182 reach 1 2.34 1836 78 217 90 0.14 reach 1 19889 5837.00 2.23 12.82 5.72 12 94 0.000235 284 2055.46 221.57 0.16 reach 1 19889 10969.00 2.23 14.06 7.36 14,40 0.000559 4.69 2376.48 484.17 0.26

| Reach   | River Sta    | Q Total  | Min Ch El   | W.S. Elev | Crit W.S.   | E.G. Elev   | E.G. Stope | Vel Chrit | Flow Area   | Top Width       | Froude # Chi |
|---------|--------------|----------|-------------|-----------|-------------|-------------|------------|-----------|-------------|-----------------|--------------|
|         |              | (cfs)    | (ft)        | (ft)      | (ft)        | (ft) ·      | (ft/ft)    | (ft/s)    | (sq ft)     | (n)             |              |
| each 1  | 19835        | 3104.00  | 2.23        | 10.53     | 4.62        | 10.59       | 0.000157   | 1.99      | 1559.65     | 212.50          | 0.13         |
| each 1  | 19835        | 4305.00  | 2.23        | 11.81     | 5.14        | 11.90       | 0.000182   | 2.35      | 1834.56     | 217.86          | D.14         |
|         | 19835        | 5837.00  | 2.23        | 12.80     | 5.72        | 12.93       | 0.000237   | 2.84      | 2052.49     | 221.52          | 0.16         |
| each 1  |              | 10969.00 | 2.23        | 14.03     | 7.35        | 14.37       | 0.000565   | 4.71      | 2361.18     | 442.34          | 0.26         |
| each 1  | 19835        | 10909.00 | 2.23        | 14.00     | 7.00        | 14.07       | 0.000      |           |             |                 |              |
| each 1  | 18000        | 3104.00  | 2.22        | 10.23     | 4.53        | 10.30       | 0.000168   | 2.03      | 1527.86     | 211.95          | 0.13         |
| each 1  | 18000.       | 4305.00  | 2.22        | 11.46     | 5.04        | 11.55       | 0.000197   | 2.40      | 1790.69     | 216.68          | 0.15         |
| each 1  | 18000        | 5837.00  | 2.22        | 12.34     | 5.60        | 12.47       | 0.000259   | 2.92      | 2278.06     | 1944.81         | 0.17         |
| each 1  | 18000        | 10969.00 | 2.22        | 12.99     | 7.21        | 13.29       | 0.000598   | 4.61      | 4626.38     | 51 <b>24.56</b> | 0.26         |
|         |              |          |             |           |             |             |            |           |             | 200 47          | 0.14         |
| each 1  | 16000.       | 3104.00  | 2.22        | 9.87      | 4.30        | 9.94        | 0.000182   | 2.09      | 1483.04     | 208.47          |              |
| each 1  | 16000        | 4305.00  | 2.22        | 11.03     | 4.81        | 11.13       | 0.000217   | 2.49      | 1728.29     | 212.92          | 0.15         |
| each 1  | 16000.       | 5837.00  | 2.22        | 12.20     | 5.38        | 12.21       | 0.000062   | 1.41      | 11935.73    | 6914.24         | 0.00         |
| each 1  | 16000.       | 10969.00 | 2.22        | 12.74     | 7.00        | 12.77       | 0.000114   | 1.92      | 15708.82    | 6932.99         | 0.1          |
|         | The State of |          | 2.00        | 9.51      | 4.07        | 9.57        | 0.000181   | 2.07      | 1496.51     | 212.55          | 0.14         |
| each 1  | 14000.       | 3104.00  | 2.03        |           |             | 10.69       | 0.000220   | 2.49      | 1729.83     | 215.78          | 0.1          |
| each 1  | 14000.       | 4305.00  | 2.03        | 10.60     | 4.56        |             |            | 2.91      | 2003.73     | 224.81          | 0.1          |
| each 1  | 14000        | 5837.00  | 2.03        | 11.85     | 5.12        | 11.98       | 0.000263   | 1.99      | 15138.14    | 6925.74         | 0.1          |
| each 1  | 14000        | 10969.00 | 2.03        | 12.50     | 6.70        | 12.53       | 0.000124   | 1.89      | 13130.14    | 3923.74         | <b>U.</b> 1. |
| each 1  | 12000.       | 3104.00  | 1.79        | 9.10      | 3.96        | 9.18        | 0.000216   | 2.20      | 1408.88     | 208.61          | 0.1          |
| each f  | 12000.       | 4305.00  |             | 10.10     | 4.46        | 10.21       | 0.000268   | 2.66      | 1617.83     | 212.04          | 0.1          |
| each 1  | 12000.       | 5837.00  |             | 11.25     | 5.03        | 11.40       | 0.000316   | 3.13      | 1864.49     | 216.01          | 0.1          |
| each f  | 12000.       | 10969.00 | 1.79        | 12.42     | 6.63        | 12.42       | 0.000027   | 0.90      | 34411.74    | 13721.68        | 0.0          |
| 1 1     |              |          | , , ,       |           |             |             |            |           | 4047.40     | 2000            |              |
| each 1  | 10000.       | 3243.00  | 1.80        | 8.58      | 3.99        | 8.67        |            |           |             |                 | 0.1          |
| each 1  | 10000.       | 4358.00  | 1.80        | 9.46      | 4.45        | 9.59        |            |           |             | 213.75          | 0.1          |
| each 1  | 10000.       | 5848.00  | 1.80        | 10.46     | 5.00        | 10.64       |            |           |             |                 | 0.2          |
| each 1  | 10000.       | 10969.00 | 1.80        | 11.78     | 6.59        | 12.22       | 0.001024   | 5.31      | 2063.84     | 262.21          | 0.3          |
| 355     | as growth a  |          |             |           | 0.00        | 7.00        | 0.000470   | 2.89      | 1139.10     | 202.36          | 0.2          |
| each 1  | 8000.        | 3292.00  |             |           | <del></del> | 7.93        |            |           |             | 204.75          |              |
| reach 1 | 8000         | 4458.00  |             |           |             |             |            |           |             | <del></del>     |              |
| reach 1 | 8000         | 5868.00  |             |           | +           | 9.46        |            |           | <del></del> | 207.20          | <del></del>  |
| reach 1 | 8000         | 10964.00 | 1.73        | 11.00     | 11.00       | 11.08       | 0.000310   | 3.06      | 10500.89    | 6877,30         | 0.1          |
|         |              | 2000 00  | 1.77        | 6.88      | 3.68        | 6.97        | 0.000486   | 2.66      | 1307.37     | 296.77          | 0.2          |
| reach 1 | 6000.        | 3292.00  |             |           |             |             |            |           |             |                 | 0.2          |
| reach 1 | 6000         | 4458.00  |             |           |             |             |            |           |             |                 |              |
| reach 1 | 6000         | 5868.00  |             |           |             |             |            | -         | <del></del> |                 |              |
| reach 1 | 8000         | 10964.00 | 1.77        | 7.07      | 0.50        | 0.5         | 4.000      | 1.50      | 100010      |                 | ,            |
| reach 1 | 4056         | 3292.00  | 1.84        | 5.80      | 3.41        | 5.90        | 0.000621   | 2.53      | 1303.69     | 352.71          | 0.2          |
| reach 1 | 4056         | 4458.00  | <del></del> |           |             | 6.22        | 0.000511   | 2.42      | 4854.15     | 16474,10        | O.:          |
| reach 1 | 4056         | 5868.00  |             |           |             |             | 0.000406   | 3 2.24    | 8558.89     | 16860.39        | 0.           |
| reach 1 | 4058         | 10964.00 |             |           | <del></del> |             | 0.00030    | 2.07      | 17213.01    | 17807.57        | 0.           |
| 4,7     |              | -        |             |           |             |             |            |           |             |                 | <u> </u>     |
| reach 1 | 4024         | 3292.00  | <del></del> |           | <del></del> |             |            |           |             | _               |              |
| reach 1 | 4024         | 4458.00  |             |           |             |             |            |           |             |                 |              |
| reach 1 | 4024         | 5868.00  |             |           | +           | <del></del> |            |           | _           | -               |              |
| reach 1 | 4024         | 10984.00 | 1.84        | 6.80      | 5.19        | 6.8         | 9 0.00030  | 3 2.0     | 7 17213.0   | 1 17807.5       | 0.           |
|         |              | 2570 A   | 1 7         | 4.10      | 3 2.81      | 4.2         | 5 0.00105  | 8 2.4     | 1 1484.2    | 642.50          | 3 0.         |
| reach 1 | 2000         | 3576.00  |             |           |             |             |            |           |             | 644,11          | в О.         |
| reach 1 | 2000.        | 4920.00  |             |           |             |             |            |           |             |                 |              |
|         | 2000         | 6522.00  |             |           |             |             |            |           |             | <del></del>     |              |
| reach 1 | 2000.        | 10964.0  | 1./2        | 5.14      | 3.5         |             | 3.0000     | 1         |             |                 |              |
| reach 1 | 0.           | 3576.0   | 0 1.4       | 3.5       | 1.9         | 3.6         |            |           |             |                 |              |
| reach 1 | 0.           | 4920.0   |             |           | 5 2.1       | 3.8         | 5 0.00015  |           |             |                 |              |
| reach 1 | 0.           | 6522.0   |             |           | 0 2.20      | 5 4.1       | 1 0.00015  | 5 0.9     |             |                 |              |
| reach 1 | 0. 74        | 10964.0  |             |           |             | <del></del> |            | 5 1.0     | 4 16503.6   | 1 10723.4       | 6 0          |

## HEC-RAS MODEL REVISED EXISTING CONDITIONS RAYMONDVILLE

| River                        | Ray - RevEx<br>Reach | River Sta        | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev    | E.G. Slope | Vel Chril   | Flow Area | Top Width        | Froude # Chi |
|------------------------------|----------------------|------------------|--------------------|----------------|----------------|--|--------------|------------|-------------|-----------|------------------|--------------|
| Dairent District             |                      | Jane II.         | (cfs)              | (ft)           | (ft)           | (ft)   | (ft)         | (fVR)      | (ft/s)      | (sq ft)   | <u>(m)</u>       |              |
| La Sal Vieja                 | Reach 1              | 15080            | 586.00             | 24.30          | 31.66          | 26.12  | 31.69        | 0.000157   | 1.46        | 402.69    | 69.44            | 0.11         |
| La Sal Vieja                 | Reach 1              | 15060            | 982.00             | 24.30          | 34.25          | 26.83  | 34.29        | 0.000146   | 1.65        | 595.87    | 79.79            | 0.11         |
| La Sal Vieja                 | Reach 1              | 15060            | 1341.00            | 24.30          | 36.98          | 27.39  | 37.02        | 0.000108   | 1.62        | 828.83    | 90.72<br>2473.49 | 0.09         |
| La Sal Vieja                 | Reach 1              | 15080            | 1390.00            | 24.30          | 42.49          | 27.46  | 42.51        | 0.000025   | 1.01        | 1377.14   | 24/3.49          | 0.05         |
|                              |                      |                  | 586.00             | 24.30          | 31.65          | 26.12  | 31.69        | 0.000158   | 1.46        | 402.28    | 69.41            | 0.11         |
| La Sal Vieja                 | Reach 1              | 15050<br>15050   | 982.00             | 24.30          | 34.24          | 26.12  | 34.29        | 0.000138   | 1.65        | 595.46    | 79.77            | 0,11         |
| La Sal Vieja                 | Reach 1<br>Reach 1   | 15050            | 1341.00            | 24.30          | 36.98          | 27.39  | 37.02        | 0.000108   | 1.62        | 828.41    | 90.70            | 0.09         |
| La Sal Vieja<br>La Sal Vieja | Reach 1              | 15050            | 1390.00            | 24.30          | 42.49          | 27.47  | 42.51        | 0.000025   | 1.01        | 1377.08   | 2473.02          | 0.05         |
| La Sal Vida                  | NOBAL A              |                  | 1030.00            |                | ,              |  |              |            |             |           |                  |              |
| La Sal Vieja                 | Reach 1              | 15020            | Culvert            |                |                |  |              |            |             |           |                  |              |
|                              |                      | 10 PUE 2 12 V    |                    |                |                |  |              | ***        |             |           |                  |              |
| La Sel Vieja                 | Reach 1              | 15010            | 588.00             | 24.30          | 30.07          | 26.12  | 30.13        | 0.000377   | 1.97        | 297.21    | 63.07            | 0.16         |
| La Sal Vieja                 | Reach 1              | 15010            | 982.00             | 24.30          | 32.12          | 26.83  | 32.20        | 0.000354   | 2.26        | 434.90    | 71.27            | 0.16         |
| La Sal Vieja                 | Reach 1              | 15010            | 1341.00            | . 24.30        | 33.68          | 27.39  | 33.78        | 0.000337   | 2.43        | 551.42    |                  | 0.16         |
| La Sal Vieja                 | Reach 1              | 15010            | 1390.00            | 24.30          | 39.44          | 27.47  | 39.47        | 0.000058   | 1.31        | 1064.15   | 100.56           | 0.07         |
| 9 74 35                      | Pana III             | · 经有关 类型         |                    |                |                |  |              |            |             | l         |                  |              |
| La Sal Vieja                 | Reach 1              | 15000            | 586.00             | 24.30          | 30.06          |  | 30.12        | 0.000379   | 1.97        | 296.84    | 63.05            | 0.16         |
| La Sel Vioja                 | Reach 1              | 15000            | 982.00             | 24.30          | 32.11          |  | 32.19        | 0.000355   | 2.26        | 434.54    | 71.25            | 0.16         |
| La Sal Vieja                 | Reach 1              | 15000            | 1341.00            | 24.30          | 33,68          |  | 33.77        | 0.000338   | 2.43        | 551.06    |                  | 0.16<br>0.07 |
| La Sal Vieja                 | Reach 1              | 15000            | 1390.00            | 24.30          | 39.44          |  | 39.47        | 0.000058   | 1.31        | 1064.09   | 100.36           | 0.07         |
|                              |                      |                  |                    | 00.0-          | 29.13          | <del></del>                                      | 29,19        | 0.000364   | 1.95        | 300.94    | 63,30            | 0.16         |
| La Sal Vieja                 | Reach 1              | 12500            | 586.00             | 23.30<br>23.30 | 29.13<br>31,25 |  | 31,32        | 0.000364   | 2.21        | 444.15    |                  | 0.16         |
| La Sal Vieja                 | Reach 1              | 12500<br>12500   | 982.00<br>1341.00  |                | 31,25          |  | 31,32        |            |             |           |                  | 0.16         |
| La Sal Vieja<br>La Sal Vieja | Reach 1              | 12500            | 1390.00            |                | 39.32          |  | 39.34        |            | 1.20        |           |                  | 0.06         |
| LA SOLVIATOR                 | React t              | IZOUU            | 1390,00            | 24.30          | 38.32          | <del>                                     </del> | 55.54        | 2.230041   |             | 1         | 1                |              |
| Le Sal Vieja                 | Reach 1              | 9650             | 586.00             | 22.16          | 28.14          |  | 28.19        | 0.000332   | 1.89        | 310.71    | 63.92            | 0,15         |
| La Sal Vieja                 | Reach 1              | 9650             | 962.00             |                | 30.35          | 1  | 30.42        |            |             |           | 72.77            | 0.15         |
| La Sal Vieja                 | Reach 1              | 9650             | 1341.00            | 22.16          | 32.02          |  | 32.10        | 0.000281   | 2.28        | 588.73    |                  | 0.15         |
| La Sal Vieja                 | Reach 1              | 9650             | 1390.00            | 22.16          | 39.20          |  | 39.22        | 0.000036   | 1.10        | 1262.64   | 108.18           | 0.06         |
|                              |                      | 3 3 4 4 3 5 6 1  |                    |                |                |  |              |            | <u> </u>    |           |                  |              |
| La Sal Vieja                 | Reach 1              | 7500             | 586.00             |                | 27.47          |  | 27.52        |            |             |           |                  | 0.14         |
| La Sal Vieja                 | Reach 1              | 7500             | 982.00             |                |                |  | 29.81        |            |             |           |                  |              |
| La Sef Vieja                 | Reach 1              | 7500             | 1341.00            |                |                |  | 31.53        |            |             |           |                  |              |
| La Sai Vieja                 | Reach 1              | 7500             | 1390.00            | 21.30          | 39.13          | <b> </b>   | 39.14        | 0.000030   | 1.03        | 1348.69   | 111.31           | 0.05         |
|                              |                      |                  |                    |                |                |  |              | 0.00000    | 1.65        | 355,13    | 56.64            | 0.13         |
| La Sal Vieja                 | Reach 1              | 4100             | 586.00             |                | 26.50          |  | 26.64        |            |             |           |                  | 0.13         |
| La Sal Vioja                 | Reach 1              | 4100             | 982.00             |                | 28.96<br>30.69 |  | 30.76        |            |             |           |                  |              |
| La Sal Vieja                 | Reach 1              | 4100             | 1341.00<br>1390.00 |                | 39.04          |  | 39.09        |            |             |           |                  |              |
| La Sal Vieja                 | Reach 1              | 4100             | 1390.00            | 13.54          | 39.04          |  | 33.0.        | 0.00002    | 0.00        | 1,100.01  | 1                |              |
| La Sal Vieja                 | Reach 1              | 1000             | 586.00             | 18.70          | 26.02          | 20.52  | 26.06        | 0.000160   | 1.46        | 400.1     | 69.29            | 0.11         |
| La Sal Vieja                 | Reach 1              | 1000             | 982.00             |                |                |  |              |            |             |           |                  |              |
| Le Sel Vieja                 | Reach 1              | 1000             | 1341.00            |                |                |  |              |            |             |           | 7 85.78          | 0.11         |
| La Sal Vieja                 | Reach 1              | 1000             | 1390.00            |                | 39.00          | 21.87  | 39.0         | 0.00001    | 0.69        | 4567.3    | 1082.00          | 0.03         |
|                              |                      | CARAGONIA        |                    |                |                |  |              |            |             |           |                  |              |
| raymondville                 | Reach 8              | 231612           | 343.00             |                |                |  | 49.3         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 231612           | 711.00             |                |                |  | 52.2         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 231612           | 1224.00            |                |                |  | 54.5         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 231612           | 2929.00            | 40,87          | 58.06          | ــــــــــــــــــــــــــــــــــــــ           | 58.0         | B 0.00007  | 1.59        | 9 3710.7  | 937.40           | 0.00         |
|                              |                      |                  | +                  | 40.00          | 48.51          |  | 48.5         | 5 0.00019  | B 1.49      | 9 230,9   | 3 44.2           | 7 0.1        |
| raymondville                 | Reach 8              | 227684<br>227684 | 343.00<br>711.00   |                |                |  | 51.3         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 227684           | 1224.00            |                |                |  | 53.6         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 227684           | 2929.00            |                |                | <del> </del>                                     | 57.6         |            |             |           |                  |              |
|                              |                      |                  |                    | 1              |                | T  | 1            | 1          | T           |           |                  |              |
| raymondville                 | Reach 8              | 225004           | 343.00             | 39.55          | 47.97          | 7  | 48.0         |            |             |           |                  |              |
| raymondvilla                 | Reach 8              | 225004           | 711.00             |                | 50.58          |  | 50.6         |            |             |           | <del></del>      |              |
| raymondville                 | Reach 8              | 225004           | 1224.00            |                |                |  | 52.7         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 225004           | 2929.0             | 0 39.59        | 5 56.4         | 7  | 56.7         | 0.00061    | 5 3.9       | 2 828.1   | 4 428.4          | 0.2          |
|                              | Trebic to            |                  | 4                  | ļ              | <u> </u>       |  |              |            | <del></del> |           |                  |              |
| raymondville                 | Reach B              | 222418           | 343.0              |                |                |  | 47.4         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 222418           | 711.00             |                |                |  | 50.3         |            | <del></del> |           |                  | <del></del>  |
| raymondville                 | Reach 8              | 222418           | 1224.0             |                |                |  | 52.5<br>56.5 |            |             |           |                  |              |
| raymondville                 | Reach 8              | 222418           | 2929.0             | 0 39,0         | 56.5           | <b>*</b>   | 36.5         | 0.0001     | 0.7         | - 3324.0  | £045.4           |              |
| raymondville                 | Reach B              | 220780           | 343.0              | 0 38.7         | 1 47.0         | 7  | 47.1         | 1 0.00021  | 6 1.5       | 4 223.3   | 2 43.4           | 3 0.1        |
| raymondville                 | Reach 8              | 220780           | 711.0              |                |                |  | 50.2         |            |             |           |                  |              |
| raymondvilla                 | Reach 8              | 220780           | 1224.0             |                |                |  | 52.4         |            |             |           |                  |              |
| raymondville                 | Reach B              | 220780           | 2929.0             |                |                |  | 56.4         |            |             |           |                  | 5 0.2        |
|                              |                      |                  |                    |                |                |  | I            |            |             |           |                  |              |
| raymondville                 | Reach 8              | 217688           | 343.0              | 0 38,0         | 9 48.3         | 9  | 46.4         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 217688           | 711.0              | 0 38.0         |                |  | 49.5         |            |             |           |                  |              |
| raymondvilla                 | Reach 8              | 217688           | 1224.0             |                |                |  | 51.4         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 217688           | 2929.0             | 0 38.0         | 9 54.1         | 2  | 54.4         | 1 0,0008   | 13 4.3      | 33 706.0  | 57 344.9         | 0.2          |
| 7 10 10 10                   |                      |                  | <del> </del>       | J              | 1              | <del>_</del>                                     | <del>-</del> |            | ,           | 7 02-     | 15.4             |              |
| raymondville                 | Reach 8              | 215481           | 343,0              |                |                |  | 45.9         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 215481           | 711.0              |                |                |  | 48.9         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 215481           | 1224.0             |                |                |  | 50.7         |            |             |           |                  |              |
| raymondville                 | Reach 8              | 215481           | 2929.0             | 0 37.6         | 5 53.6         | <u>''L</u>                                       | 53.0         | 0.00011    | <u> </u>    | , = 20,7. | 791 011.5        |              |

River Reach River Star Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vet Chnl Flow Area Top Width Froude # Chi (ft) (ft/ft) (ft/s) (sq ft) (cfs) (ft) m (ft) (ft) rzymondville 213503 343.00 37.25 45.45 45.49 0.000219 222.55 43.56 0.12 Reach 8 0.000241 raymondville 213503 711.00 37.25 48.43 48.48 1.92 369.84 55.46 0.13 Reach 8 50.10 50.16 0.000276 875.02 547.58 0.14 raymondville Reach 8 213503 1224.00 37.25 2.23 zymondville Reach 8 213503 2929.00 37.25 53.35 53.37 0.000114 1.80 3135,94 862.42 0.10 raymondville Reach 8 211886 343.00 36.93 45.09 45.13 0.000230 1.57 218.28 43.08 0.12 raymondville Reach & 211886 711.00 36 93 48.03 48.09 0.000255 1.96 370.63 377.58 0 13 rzymondyšle Reach 8 211886 1224.00 36.93 49.87 49.89 0.000105 1.39 1990.30 1174.18 0.09 raymondville Reach 8 211886 2929.00 36.93 53.30 53.30 0.000020 0.77 8379.23 2259.16 0.04 36.03 44.74 343.00 44.78 0.000243 1.80 214.01 42.62 0.13 210380 raymondville Reach 8 raymondville 711.00 36 63 47.63 47.69 0.000270 2.01 354.12 54.19 0.14 raymondville 210380 1224.00 36.63 49.50 49.60 0.000393 2.65 462.22 61.66 0.17 4.21 696.37 raymondville Reach 8 210380 2929.00 52.91 53.19 0.000752 75.33 0.24 raymondville Reach 8 210328 343.00 36.62 44 72 44.76 0.000243 1.60 213 91 42.61 0 13 Reach & 210328 711.00 8.62 47.62 47.68 0.000271 2.01 353.90 54.18 0.14 raymondville 49.58 Reach 8 210328 1224 00 36.62 49.47 0.000394 2.65 461.52 61.61 0.17 0.000756 raymondville Reach 8 210328 2929.00 36.62 52.88 53.16 4.21 694.91 75.25 0.24 raymondville 208058 36.16 44.15 44.19 0.000251 1.62 211.43 42,45 0.13 343.00 raymondville 208058 0.000285 Reach 8 711.00 36.16 46.98 47.04 2.05 347.33 53.75 0.14 raymondville 38.16 48.48 48.61 0.000468 2.83 432.80 0.19 Reach 8 208050 1224.00 59.77 raymondville 36.16 50.48 50.91 0.001345 5.23 560.23 67.76 0.32 Reach B 208058 2929.00 43.58 1.69 202.70 ach 8 205823 343.00 35.72 43.60 0.000281 41.54 0.14 raymondville 0.000299 Reach & 205823 711.00 35.72 46.33 46.39 2.07 422.16 325.33 0.14 47.90 0.000215 1.98 1213.97 1068,14 205823 1224.00 35.72 47.86 0.13 raymondville Reach 8 205523 35.72 50.37 0.000070 1.37 6473.43 raymondville Reach 8 2929.00 50.36 3421.68 0.08 42.93 0.000325 40.43 0.14 203593 343.00 35.27 42.88 1.79 191.84 rzymondville Reach 6 2.25 35.27 45.65 0.000368 315.34 0.16 raymondville Reach 8 203593 711.00 45.57 51.21 raymondville 1224.00 35.27 46,98 47.14 0.000611 3.13 391.81 56.86 0.21 203593 aymondville Reach 8 203593 2929.00 35.27 49.70 49.95 0.000888 4 36 1354.82 1580 64 0.26 raymondville Reach A 202962 343.00 35 14 42 67 42.72 0.000341 1.82 188 55 40.10 0.15 raymondville Reach & 202982 711.00 35.14 45.33 45.41 0.000387 2.30 309.66 50.77 0.16 rzymondville 55.68 Reach 8 202982 1224.00 35.14 46.56 46.73 0.000686 3.26 375.1D 0.22 reymondville 0.001850 5.89 63.85 Reach 8 202962 2929.00 35.14 48.60 49.14 497.16 0.37 343.00 34.67 41.74 41.80 0.000446 2.01 170.67 38,28 0.17 Reach 8 raymondville 2.25 517.62 711.00 34.67 44.44 44.52 0.000373 479.29 0.16 raymondy 34.67 46.09 46.11 1.52 1940.48 1200.04 0.10 raymondy Reach 8 200600 1224,00 0.000122 34.67 48.60 48.61 0.000054 1.22 5500.25 1669.68 0.07 raymondville 200500 2929.00 Reach 8 200550 343.00 34.66 41.72 41.78 0.000448 2.01 170.33 38.24 0.17 raymondville 515.79 Reach 8 200550 711.00 34.66 44.43 44.51 0.000375 2.26 474.60 0.16 200550 1931.66 1198.47 46.08 46.10 0.000124 1.52 raymondville Reach 8 1224.00 34,66 0.10 48.61 0.000054 1.22 5496.14 1668.88 200550 2929.00 34.66 48.60 0.07 raymondville Reach 8 40.31 2.53 135.71 34.43 0.22 343.00 34.20 40.41 0.000828 raymondyille 43.27 43.39 0.000651 2.79 254.98 46.25 0.21 rzymondvilo Reach 8 198245 711.00 34.20 raymondville 1224.00 34.20 45.56 45.64 0.000374 2 57 940 27 811 64 0.17 Reach 8 196245 raymondville 196245 2929.00 34.20 48,44 48.45 0.000085 1.53 4879.08 1909.23 0.08 41.10 raymondville Reach 8 196303 343.00 31.67 39.45 39.49 0.000296 1.73 198.65 0.14 53,25 341.91 0.14 Reach 8 198303 711.00 31.67 42,48 42.55 0.000297 2.08 44.92 2.56 477.35 raymondville 196303 1224.00 44.82 0.000360 62.60 0.16 Reach 6 31.67 196303 2929.00 31.67 48.14 48.19 0.000239 2.38 2504.40 1046.69 0.14 raymondville Reach 8 39.00 raymondville 194636 343.00 31.17 38.95 0.000295 1.72 198 98 41.13 0.14 Reach 8 raymondvale Reach 8 194838 711.00 31.17 41.99 42.06 0.000298 2 08 342.24 53.27 0.14 raymondville 194638 1224.00 31.17 44 21 44 31 0.000372 2.59 498.94 307.34 0.17 aymondville Reach & 194638 2929.00 31.17 47.88 47.88 0.000140 1.84 3384.69 1241.93 0.11 30.77 0.000293 1.72 199.56 41.19 0.14 343.00 38.57 33.50 38.61 Reach 8 193324 0.000294 2.07 53.32 0.14 raymondville 711.00 41,60 34.85 41.67 342.94 Reach 6 193324 30.77 30.77 36.22 0.000389 2.64 463.96 61.74 0.17 193324 1224.00 43.70 43.81 raymondville Reach 8 4.14 75.88 30.77 47.24 39.19 47.51 0.000722 707.25 0.24 2929.00 raymondviše Reach 8 193324 343.00 30.57 38.37 33.30 38,41 0.000293 1 72 199 58 41 19 D 14 Reach 8 192642 raymondville raymondville Reach 8 192642 711.00 30.57 41,40 34.65 41.47 0.000294 2.07 342.90 53.32 0.14 raymondville 192642 1224.00 30.57 43.43 36.02 43.54 0.000398 2.66 459 B1 81.48 0.17 raymondville 192642 2929.00 30.57 46.70 38.99 46.99 0.000796 4.30 681.76 74.53 0.25 Reach 8 200.05 41.24 0.14 30,12 37.93 1.71 191137 343.00 37.97 0.000291 rzymondville Reach 8 343.32 53.35 0.14 41.02 2.07 raymondville Reach 8 191137 711.00 30.12 40.96 0.000293 42.81 0.000424 2.73 448,96 60.76 0.18 raymondville 1224.00 30.12 42.93 Reach 8 191137 70.47 30.12 4.82 608.22 0.29 191137 2929.00 45.24 raymondville Reach 8

| River           | Reach            | River Sta           | Q Total | Min Ch El     | W.S. Elev | Crit W.S.    | E.G. Elev | E.G. Slope | the state of the s | Flow Area | Top Width   | Froude # Chl |
|-----------------|------------------|---------------------|---------|---------------|-----------|--------------|-----------|------------|--|-----------|-------------|--------------|
|                 |                  |                     | (cfs)   | (ff)          | (n) ···   | (ft)         | (ft) ·    | (ft/ft)    | (fVs)  | (sq ft)   | (ft)        | 0.1          |
| ondville        | Reach 8          | 188680              | 343.00  | 29.38         | 37.22     |              | 37.27     | 0.000286   | 1.70   | 201.37    | 41.36       | 0.1          |
| ondville        | Reach 8          | 188680              | 711.00  | 29.38         | 40.31     |              | 40.36     | 0.000248   | 1.91   | 497.43    | 343.70      |              |
| ondville        | Reach 8          | 188680              | 1224.00 | 29.38         | 42.38     |              | 42.40     | 0.000119   | 1.49   | 1614.50   | 736.99      | 0.0          |
| ondville        | Reach 8          | 188680              | 2929.00 | 29.38         | 45.03     |              | 45.04     | 0.000072   | 1.41   | 4250.86   | 1211.31     | 0.0          |
| Nuivi (         |                  | 经统体记程的              |         |               |           |              |           |            |  |           | 11 40       |              |
| ndville         | Reach 8          | 187150              | 343.00  | 28.92         | 36.79     |              | 36.83     | 0.000281   | 1.69   | 202,55    | 41.48       | 0.1          |
| ondville        | Reach B          | 187150              | 711.00  | 28.92         | 39.89     |              | 39.96     | 0.000277   | 2.03   | 350,61    | 53.91       | 0.1          |
| ondville        | Reach B          | 187150              | 1224.00 | 28.92         | 41.99     |              | 42.09     | 0.000370   | 2.59   | 472.41    | 62.29       | 0.1          |
| ondville        | Reach 8          | 187150              | 2929.00 | 28.92         | 44.45     |              | 44.75     | 0.000896   | 4.47   | 798,80    | 471.29      | 0.2          |
| All Michigan    |                  |                     |         |               |           |              |           |            |  |           |             |              |
| ondville        | Reach 8          | 187100              | 343.00  | 28.91         | 36.77     |              | 36.82     | 0.000282   | 1.70   | 202.36    | 41.47       | 0.1          |
| ondville        | Reach 8          | 187100              | 711.00  | 28.91         | 39.88     |              | 39.94     | 0.000278   | 2.03   | 350.37    | 53.89       | 0.           |
| ondville        | Reach 8          | 187100              | 1224.00 | 28.91         | 41.97     |              | 42.07     | 0.000371   | 2.59   | 471.86    |             | 0.1          |
| ondville        | Reach 8          | 187100              | 2929.00 | 28.91         | 44.40     |              | 44.71     | 0.000919   | 4.51   | 775.40    | 466.08      | 0.2          |
| OESCIAINE       | Maritana .       | A PROPERTY OF STATE | 2020.00 |               |           |              |           |            |  |           |             |              |
|                 | Reach 6          | 184550              | 343.00  | 28.14         | 36.07     |              | 36,11     | 0.000272   | 1.67   | 205.07    | 41.72       | 0.           |
| ondville        | Reach 8          | 184550              | 711.00  | 28.14         | 39.18     |              | 39.25     | 0.000269   | 2.01   | 359.33    | 109.07      | 0.           |
| ondville        |                  | 184550              | 1224.00 | 28.14         |           |              | 41.76     |            | 1.07   | 2893.53   | 1615.54     | 0.0          |
| ondville        | Reach 8          | 184550              | 2929.00 | 28.14         |           |              | 44.45     |            | 0.82   | 8834.52   | 2681.91     | 0.           |
| ondville        | Reach 8          |                     | 2929.00 | 20.14         | 11.10     |              |           |            |  |           |             |              |
|                 | Shart to the     |                     | 242.00  | 28.13         | 36.06     |              | 36.10     | 0.000273   | 1.67   | 204,91    | 41.70       | 0.           |
| ondville        | Reach 8          | 184500              | 343.00  |               |           | <del></del>  | 39.23     |            | 2.01   | 358.46    |             | 0.           |
| ondville        | Reach 8          | 184500              | 711.00  | 28.13         |           |              | 41.76     |            | 1.07   | 2889.67   |             | 0.           |
| ondviše         | Reach 8          | 184500              | 1224.00 | 28.13         |           |              | 41.76     |            | 0.82   | 8832.23   |             | 0.           |
| ondville        | Reach 8          | 184500              | 2929.00 | 28.13         | 44.45     | <u>'</u>     | 44,40     | 0.000021   | 0,02   | 5002.20   | 2007.41     |              |
| HEND            | 11/2/2007        |                     |         |               |           | <del> </del> | ***       | 0.00000    | 1,66   | 207.01    | 41.91       | 0.           |
| ondyille        | Reach 8          | 183033              | 343.00  | 27.66         |           |              | 35.68     |            | 1,99   | 357.03    |             | 0.           |
| ondville        | Reach 8          | 183033              | 711.00  | 27.56         |           |              | 38.81     |            | <del></del>  | 770.6°    |             | 0.           |
| ondville        | Reach 8          | 183033              | 1224.00 | 27.66         |           |              | 41.61     |            |  |           |             | 0.           |
| nondville       | Reach 8          | 183033              | 2929.00 | 27.66         | 44.30     | 36.08        | 44.37     | 0.000209   | 2.54   | 2228.49   | 721.08      | <u></u>      |
| Marian X f      | <b>基础</b> 设建设。   | ys. Because i       |         |               | L         |              |           | -          | l  |           | <del></del> | 0.           |
| ondville        | Reach B          | 181219              | 343.00  | 27.11         |           |              | 35.2      |            | 1.63   | 210.40    | <del></del> |              |
| ondville        | Reach 8          | 181219              | 711.00  | 27.11         |           |              | 38.3      |            | _  | 361.4     |             | 0            |
| nondville       | Reach 8          | 181219              | 1224.00 | 27.11         | 41.14     | 1            | 41.20     |            |  | 709.7     |             |              |
| nondville       | Reach 8          | 181219              | 2929.00 | 27.11         | 43.96     | 3            | 44.0      | 0.000183   | 2.34   | 2707.1    | 5 1095.84   | 0            |
| CRIPS APRIL     | A Philadelphia C | ELLANGUAL PROPERTY  |         |               |           |              |           |            |  |           |             |              |
| nondviše        | Reach 8          | 179129              | 343.00  | 26.49         | 34.6      | 5            | 34.6      | 0.000240   | 1.60   | 214.8     |             | 0            |
| nondville       | Reach 8          | 179129              | 711.00  | 26.49         | 37.70     | 3            | 37.8      | 0.000246   | 1.94   | 366.7     | 0 55.08     | 0            |
|                 | Reach 8          | 179129              | 1224.00 | 26.49         |           | 9            | 40.8      | 0.000137   | 1.71   | 1524.9    | 1367.89     | 0            |
| nondville       | Reach 8          | 179129              | 2929.00 | 26.49         |           | 8            | 43.8      | 0.000025   | 0.89   | 8279.5    | 3 2655.02   | 0            |
| nondville       | Reach o          | 1/8/28              | 2823.00 | 20.41         | 1         | -            | 1         |            |  |           |             |              |
|                 | 1202             | 474000              | 343.00  | 26.15         | 34.3      | 9 28.89      | 34.4      | 3 0.00023  | 1.57   | 218.0     | 9 42.95     | 0            |
| nondville       | Reach 8          | 178000              | 711.00  | 26.15         |           |              |           |            |  | 370.3     | 9 55.35     | 0            |
| nondville       | Reach 8          | 178000              |         | 26.15         |           |              |           |            |  | 581.3     |             | 0            |
| nondville       | Reach 8          | 178000              | 1224.00 | $\overline{}$ |           |              |           |            | <del></del>  | 2056.7    |             | 0            |
| nondville       | Reach 8          | 178000              | 2929.00 | 20.13         | 43.7      | 3 34.3       | 45.0      | 0.00022    | 2  | 2000.1    | -           |              |
|                 | OLAT GUAZA       |                     |         |               |           | 3 28.8       | 34.3      | 6 0.00022  | 3 1.57   | 218.8     | 7 43.03     |              |
| nondville       | Reach 8          | 177727              | 343.00  | 26.0          |           |              |           |            |  | 371.2     |             | 0            |
| nondville       | Reach 8          | 177727              | 711.00  | 26.0          |           |              |           |            |  |           |             |              |
| nondville       | Reach 8          | 177727              | 1224.00 |               |           |              |           |            | <del></del>  |           |             |              |
| nondville       | Reach 8          | 177727              | 2929.00 | 26.0          | 7 43.6    | 6 34.4       | 43.7      | 5 0.00023  | 2.73   | 2010.3    | 2143.00     | <del></del>  |
|                 |                  | La Main Car         |         |               |           |              |           |            | 4 5 6  | 200.5     | 4 43.70     | t            |
| mondville       | Reach 8          | 175705              | 343.00  | 25.4          |           |              |           |            |  |           |             |              |
| mondville       | Reach 8          | 175705              | 711.00  |               |           |              |           |            | <b>_</b>   |           |             |              |
| mondville       | Reach 8          | 175705              | 1224.00 |               |           |              |           |            |  |           |             |              |
| mondville       | Reach 8          | 175705              | 2929.00 | 25.4          | 6 43.1    | 9 33.8       | B 43.2    | 7 0.00023  | 5 2.67   | 2041.2    | 8 823.00    | ) (          |
| Vi ji Lewin, in | a aguadhair i    | THE PARTY OF        |         | I             |           |              | I         |            |  |           |             | -            |
| mondville       | Reach 8          | 175125              | 343.00  | 25.2          | 8 33.7    |              |           |            |  |           |             |              |
| mondville       | Reach 8          | 175125              | 711.00  |               |           | 33 29.3      | 6 36.6    |            |  |           |             |              |
| mondville       | Reach 8          | 175125              | 1224.00 |               | 8 39.9    |              |           |            |  |           |             |              |
| mondville       | Reach 8          | 175125              | 2929.00 |               |           |              | 0 43.1    | 0.00025    | 4 2.75   | 1931.3    | 800.4       | 2 (          |
| I MINISTER      | (America)        |                     | 1       |               |           |              |           |            |  |           |             |              |
| mondville       | Reach 8          | 173765              | 343.00  | 24.8          | 33.5      | 50           | 33.5      | 0.00018    | 9 1.46   |           |             |              |
|                 | Reach 8          | 173765              | 711.00  |               |           |              | 36.       |            | 1 1.83   |           |             |              |
| mondville       | Reach 8          | 173765              | 1224.00 |               |           |              | 39.6      |            |  | 582.      | 07 68.9     |              |
| mondville       | Reach 8          | 173765              | 2929.00 |               |           |              | 42.       |            | 9 3.1  | 154B.     | 66 685.1    | 9            |
| mondville       | INDEKALD.        | 1(0/00              | 2929.00 | ~4.0          | 1         |              |           |            |  |           |             |              |
| 100 m           |                  | 474744              | 343.00  | 24.2          | 27 33.    | 15           | 33.       | 18 0.00016 | 6 1.35   | 246.      | 36 45.5     | 1            |
| mondville       | Reach 8          | 171741              | 711.00  |               |           |              | 36.       |            |  |           |             |              |
| mondville       | Reach 8          | 171741              | 1224.00 |               |           |              | 39.       |            |  |           |             |              |
| mondville       | Reach 8          | 171741              |         |               |           |              | 42.       |            |  |           |             |              |
| mondville       | Reach B          | 171741              | 2929.00 | 24.2          | 42.       |              |           | 0.00011    |  | 2001      |             | 1            |
| Nickelyaire     |                  |                     |         | <del></del>   |           | 44           |           | 17 0.000** | 55 1.39  | 246.      | 85 45.5     | 4            |
| mondville       | Reach 8          | 171691              | 343.00  |               |           |              | 33.       |            |  | -         |             |              |
| mondville       | Reach 8          | 171691              | 711.00  |               |           |              | 36.       |            |  |           |             |              |
| mondville       | Reach 8          | 171691              | 1224.00 |               |           |              | 39.       |            |  |           |             |              |
| mondville       | Reach 8          | 171691              | 2929.0  | 24.           | 25 42.    | 19           | 42.       | 24 0.0001  | 76 2.2   | 9 2945.   | 25 1584.3   | -            |
|                 |                  |                     |         |               |           |              |           |            |  | 1         |             |              |
| 4.86            | Reach 8          | 169710              | 343.0   | 0 23.         | 66 32.    | 84           | 32.       | 86 0.0001  |  |           |             |              |
|                 | Reach 8          | 169710              | 711.0   |               |           |              | 35.       | 80 0.0001  | 79 1.7   | 2 413     |             |              |
| mondville       |                  | 1,007 10            |         |               |           |              | 38        | 88 0.0001  | 86 2.0   | 0 611     | .15 70.6    | 33           |
| mondville       |                  | 169710              | 12240   | 0  23         | 66 38.    | 04.          | }         |            |  |           |             |              |
|                 | Reach 8          | 169710<br>169710    | 1224.0  |               |           |              | 41        |            |  |           | .89 1626.3  | 35           |

HEC-RAS Plan. Ray - PeyEx (Continued) Reach O Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Frouds # Chi (cfs) (ft) (ft): (11) (11) (ft/ft) (ft/s) (8q ft) (ft) raymondville 168304 ach 8 2080.00 23.63 35 28 0.00033 760 85 88.61 0.16 rzymondyile Reach 8 168304 3441.00 23 63 38 27 38.44 0.000380 3.30 1043,54 100.57 0.18 raymondville Reach 8 8176.00 23.63 41.52 0.000294 3.32 7888.40 5924 35 0.16 raymondville 167456 1110.00 23.54 32.24 32 31 0.000282 2.15 76.79 0.15 raymondville Reach 8 2080.00 23.54 34.98 35.10 0.000357 2.80 742.39 87,77 0.17 raymondville Reach & 167456 3441.00 23.54 37.93 38 10 0.000407 3 38 1018.23 99.55 0.19 raymondville Reach 8 167456 8176.00 23.54 41.31 41.39 0.000249 3.05 8414.74 5679.14 0.15 raymondville Reach & 166128 1110.00 23.41 31.83 31.91 0.000318 2.24 495 71 75.69 0.15 raymondville ich 8 166128 2080 00 23.41 34.46 34.60 0.000407 2.94 708.55 86.21 0.18 raymondville Reach 8 166126 3441.00 23.41 37.33 3.54 37.53 0.000462 972.48 97 69 0.20 raymondville leach & 166126 8176.00 23.41 40.88 40.99 0.000350 3.56 7354,70 6000.00 0.18 raymondville Reach 8 100078 1110.00 23.40 31.82 31.90 0.000318 2.24 495.25 75.67 0.15 raymondville ch I 188078 2080.00 23.40 34.44 34 5R 0.000409 2.94 707.61 86.17 0.18 raymondville Resch B 166078 3441.00 23.40 37.31 37.50 0.000464 3.54 971.10 97.64 0.20 raymondville Reach 5 166078 8176.00 23.40 40.85 40.98 0.000363 3.62 7205.65 6000.00 0.18 raymondville mach 2 164919 620.00 22 94 31.65 31.67 0.000088 1.20 517.25 76 62 0.08 raymondville reach 2 1280.00 22.94 34.20 34.25 0.000144 1.76 726.90 87.06 0.11 reach 2 164918 2416.00 22.94 37.00 37.09 0.000219 985.76 98.24 0.14 164919 raymondville each 2 7561.00 22.94 0.000460 40.37 40.51 4313.66 3387,27 0.20 raymondville mach 2 164431 620.00 22.89 31.60 31.63 0.000088 1 20 517.75 76.84 0.08 raymondville reach 2 184431 \* 1280.00 22.89 34.13 34.18 0.000148 1.77 725.00 87.59 0.11 raymondvill reach 2 164431.1 2416.00 22.89 36.88 36.97 0.000233 2.44 988.34 104.12 raymondville 164431. ach 2 7561.00 22.89 40.16 40.29 0.000434 3.49 4652.82 3753.77 0.19 reach 2 620.00 22.85 31.56 31.58 0.000088 1.20 517.70 76.86 0.08 rzymondville reach 2 163943.1 1280.00 22.85 34.06 34.11 0.000146 1.77 722.38 86.67 0.11 reymondville ech 2 2416.00 22.85 36.76 36.66 0.000242 2.47 1008.42 443.06 0.14 raymondville reach 2 163943.1 7581.00 22.85 40.01 40.09 0.000329 2.98 5568,11 4207.53 0.17 reymonds reach 2 163458 620.00 22.80 31.52 24.63 31.54 0.000087 1.20 518 21 76,88 0.08 raymondville reach 2 103456 1280 00 22.80 33.99 34.04 25.71 0.000147 1.78 720.38 88.76 0.11 raymondville 163456 2416.00 22.80 36.64 27.14 38.74 0.000233 2.50 964.7B 917.31 0.14 rzymondville reach 2 163456 7561.00 22.60 39.92 31.47 39.95 0.000188 2.17 7873,28 3617.23 0.13 reymondville reach 2 161457 620.00 22.59 31.35 31.37 0.000086 521.25 77.03 0.08 raymondvil reech 2 161457 1280.00 22.59 33.68 33 73 0.000152 1.80 712.08 86.38 0.11 raymondville ---161457 22.59 2416.00 36.35 36.39 0.000128 1 85 2248.24 1635.01 0.10 rzymondville ech 2 161457 7561.00 22.59 39.83 39.84 0.000025 0.97 13449.41 4751.52 0.05 raymondville reach 2 150438 620.00 22.38 31.18 31.20 0.000084 1.18 524.33 77.19 0.08 raymondville reach 2 150438 1280.00 22.38 33.37 33.42 0.000158 1.82 702.7B 85 04 0.11 raymondville 150438 2416 00 22.38 35 92 36.03 0.000254 2.58 935.51 96.17 0.15 raymondville reach:2 7561,00 22.38 39.68 39.73 2.54 8040,60 5970.48 0.13 raymondville reach 2 157410 620.00 22.18 31.01 31 03 0.000083 1.18 526.84 77.31 0.08 гаутполичае mach 2 157410 1280.00 22.18 33.04 33.09 0.000165 1.85 691.75 B5.43 0.11 revmondville reach 2 157410 2416.00 22.18 35.37 35.4B 0.000280 2.68 902.27 94.77 0.15 raymondville reach 2 157410 7561.00 22.18 38.35 38.92 0.001177 6.12 1603.85 1976.95 0.32 raymondville reach 2 157293 620.00 22.17 31 00 31.02 0.000083 1.18 526.67 77.31 0.08 raymondville reach 2 157293. 1280.00 22.17 33 02 33.07 0.000165 1.85 690.88 65.39 0.11 157293. 2416.00 22.17 35,34 35 45 0.000283 2.69 899.66 94.66 0.15 raymondville reach 2 157203. 7561.00 22.17 38.24 38.76 0.001228 6.00 1844.23 2423.93 0.33 raymondville reach 2 157178 620.00 22.18 30.99 31.01 0.000083 1.18 526 71 77.32 0.08 raymondvill reach 2 157176 1280.00 22.16 33.00 33.05 0.000166 1.85 690.06 85.35 0.11 raymondville reach 2 157176. 2416.00 22.16 35.30 35.41 0.000285 2.69 897.11 94 56 0.15 raymondville reach 2 157178.\* 7561.00 22.16 38 17 38.59 0.001158 5.56 2311.17 2917.63 0.31 reach 2 157059. 620.00 22.14 30.98 31.00 0.000083 1.18 527.46 77.35 0.08 reach 2 57059 1280.00 22,14 0.000166 32.98 33 03 1.86 689.98 85,34 0.11 raymondville mach 2 2416.00 35.26 22.14 35.37 0.000301 2 69 899.50 99.67 0.16 raymondville reach 2 157059. 7561.00 22.14 38.15 38.44 D.000833 4 83 3385.20 4619.58 0.27 raymondville reach 2 156942 620 00 22.13 30.97 30.99 0.000083 1.18 527.51 77.36 0.08 raymondville reach 2 158942. 1280.00 22.13 32.96 33.01 0.000170 1.85 690.35 87.02 0.12 raymondville 156942 2416.00 22 13 35 22 35.34 0.000296 2.68 901.00 98.84 0.16 zymondville reach 2 0.000362 7561.00 22.13 38.22 38.32 3.35 6046.82 6000.00 0.18 raymondville reach 2 150825 620.00 22.12 30.96 30.98 0.000083 1 18 527.53 77.36 0.08 158825 raymondville reach 2 1280.00 22.12 32.94 32.99 0.000167 1.86 688.29 85.27 0.12 raymondville reach 2 156825 2416.00 22.12 35.19 35.30 0.000291 2.71 890 19 94.26 0.16 raymondville reach 2 166825 7561.00 22.12 38.23 38.27 0.000170 2.39 8453.14 6000.00 0.12 naymondville 155106 reach 2 620.00 21.94 30.81 30.63 0.000082 529.96 77.48 0.08 155106 reach 2 1280.00 21.94 32.64 32.70 0.000174 1.89 678.51 84.81 0.12

| River       | Reach               | evEv. (Conti<br>River Sta | Q Total | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chini | Flow Area  | Top Width | Froude # Chi |
|-------------|---------------------|---------------------------|---------|-----------|-----------|-----------|-----------|------------|-----------|------------|-----------|--------------|
|             |                     |                           | (cfs)   | (n)       | (ft)      | (ft)      | (ft)      | (PVN)      | (fl/s)    | (sq ft)    | (n)       |              |
| ymondville  | reach 2             | 155108                    | 2416.00 | 21.94     | 34,65     |           | 34.77     | 0.000324   | 2.82      | 856.79     | 92.83     | 0.1          |
| mondville   | reach 2             | 155106                    | 7561.00 | 21.94     | 37.62     |           | 37.78     | 0.000515   | 4.05      | 4441.15    | 4167.36   | 0.2          |
| 15514.20    |                     |                           |         |           |           |           |           |            |           |            |           |              |
| mondville   | reach 2             | 153062                    | 620.00  | 21.73     | 30.65     |           | 30.67     | 0.000080   | 1.16      | 533.39     | 77.66     | 0.0          |
| mondville   | reach 2             | 153082                    | 1280.00 | 21.73     | 32.27     |           | 32.33     | 0.000184   | 1.92      | 665.13     | . 84.17   | 0,1          |
| mondville   | reach 2             | 153062                    | 2416.00 | 21.73     | 33.92     |           | 34.06     | 0.000380   | 2.99      | 808.89     | 90.75     | 0.1          |
| mondville   | reach 2             | 153062                    | 7561.00 | 21.73     | 37.09     |           | 37.14     | 0.000199   | 2.58      | 5816.18    | 2350.51   | 0.1          |
|             |                     |                           |         |           |           |           |           |            |           |            |           |              |
| mondville   | reach 2             | 151635                    | 620.00  | 21.59     | 30.52     |           | 30.54     | 0.000080   | 1.16      | 534.74     | 77.73     | 0.0          |
| mondville   | reach 2             | 151635                    | 1280.00 | 21.59     | 32.00     |           | 32.06     | D.000193   | 1.96      | 654.14     | 83.65     | 0.           |
| mondville   | reach 2             | 151635                    | 2416.00 | 21.59     | 33.32     |           | 33.47     | 0.000439   | 3.15      | 767.69     | 88.91     | 0.1          |
| mondville   | reach 2             | 151635                    | 7561.00 | 21.59     | 36.58     |           | 36.71     | 0.000464   | 3.84      | 3792.48    | 1820.58   | 0.2          |
| 11, 27      |                     | A STATE OF THE            |         |           |           |           |           |            |           |            |           |              |
| mondville . | reach 2             | 150792                    | 957.00  | 21.50     | 30.38     |           | 30.43     | 0.000195   | 1.80      | 530.65     | 77.52     | 0.1          |
| mondville   | reach 2             | 150792                    | 1830.00 | 21.50     | 31.67     |           | 31.80     |            | 2.89      | 634.06     | 82.68     | 0.           |
| mondville   | reach 2             | 150792                    | 3114.00 | 21.50     | 32.63     |           | 32.92     | 0.000889   | 4.35      | 715.17     | 86.52     | 0.           |
| mondville   | reach 2             | 150792                    | 8648.00 | 21.50     | 35.85     |           | 36.13     | 0.000969   | 5.33      | 3708.06    | 3282.83   | D,           |
|             |                     | ( Laboratoria             |         |           |           |           |           |            |           |            |           |              |
| mondville   | reach 2             | 149670                    | 792.00  | 21.30     | 30.20     |           | 30.24     | 0.000132   | 1.49      |            | 77.61     | 0.           |
| mondville   | reach 2             | 149670                    | 1290.00 | 21.30     | 31,34     |           | 31,41     | 0.000224   | 2.07      | 623.23     | 82.16     | 0.           |
| mondville   | reach 2             | 149670                    | 1866.00 | 21.30     |           |           | 32.16     | 0.000365   | 2.74      | 682.04     | 84.97     | 0.           |
| mondville   | reach 2             | 149670                    | 5055.00 | 21.30     | 34.36     |           | 34.86     | 0.001277   | 5.68      | 889.32     | 94.23     | 0.           |
| 24147       | Triggerials, c      |                           |         |           |           |           |           | L          |           | L          |           |              |
| mondville   | reach 2             | 149820                    | 792.00  | 21.29     | 30,19     |           | 30.23     | 0.000132   | 1.49      | 532.61     | 77.62     | 0.           |
| mondville   | reach 2             | 149620                    | 1290.00 | 21.29     | 31.33     |           | 31.39     |            | 2.07      | 623,13     | 82.15     | 0.           |
| mondville   | reach 2             | 149620                    | 1866.00 | 21.29     | 32.02     |           | 32.14     |            | 2.74      | 681.32     | 84.94     | 0.           |
| mondville   | reach 2             | 149620                    | 5055.00 | 21.29     | 34.29     |           | 34.80     | 0.001300   | 5.72      | 883.75     | 93.99     | 0.           |
| Property of |                     | 6. 经通过分                   |         |           |           |           |           |            |           |            |           |              |
| mondyllle   | reach 2             | 147620                    | 792.00  | 21.09     | 29.92     |           | 29.95     | 0.000136   | 1.50      | 528.64     | 77.32     | 0.           |
| mondville   | reach 2             | 147620                    | 1290.00 | 21.09     | 31.20     |           | 31.20     |            | 0.98      |            |           | 0.           |
| mondville   | reach 2             | 147620                    | 1866.00 | 21.09     | 31.96     |           | 31.96     |            | 0.81      | 6005.10    |           | 0.           |
| mondville   | reach 2             | 147620                    | 5055.00 | 21,09     | 34.55     |           | 34.55     | 0.000014   | 0.65      | 17637.27   | 5378.64   | 0.           |
|             | 112 (22) 17 1 1 (1) |                           |         |           |           |           |           |            |           |            |           |              |
| mondville   | reach 2             | 145820                    | 792.00  | 20,88     | 29.64     |           | 29.68     |            | 1.52      | 521.36     | 77.03     |              |
| /mondville  | reach 2             | 145620                    | 1290.00 | 20.88     | 31.09     |           | 31.10     |            | 1.06      |            |           | D.           |
| mondville   | reach 2             | 145620                    | 1866.00 | 20.88     |           |           | 31.90     |            | 0.84      | 5857.78    |           | 0            |
| mondville   | reach 2             | 145820                    | 5055.00 | 20.88     | 34.52     |           | 34.52     | 0.000014   | 0.66      | 17655.26   | 5639.46   | 0            |
|             | PER BER             | 体 化双氯苯酚                   |         |           |           |           |           |            |           |            |           |              |
| mondville   | reach 2             | 142669                    | 792.00  | 20.57     | 29.22     |           | 29.25     |            | 1.54      | 512.64     | 76.58     |              |
| ymondville  | reach 2             | 142669                    | 1290.00 | 20.57     | 30,76     |           | 30.82     |            | 2.03      | 635.47     | 82.75     |              |
| ymondville  | reach 2             | 142669                    | 1866.00 | 20.57     | 31.59     |           | 31.69     | 0.000332   | 2.65      |            | 86.06     | 0.           |
| ymondville  | reach 2             | 142669                    | 5055.00 | 20.57     | 33.90     |           | 34.36     | 0.001166   | 5.49      | 969.34     | 214.22    | 0.           |
| Mark EV T   |                     | A BIT NO. TA              |         |           |           |           |           |            |           | L          |           |              |
| ymondville  | reach 2             | 142619                    | 792.00  | 20,57     |           |           | 29.25     |            | 1.55      |            | 76.55     |              |
| ymondville  | reach 2             | 142619                    | 1290.00 | 20.57     | 30.75     |           | 30.81     | 0.000213   | 2.03      |            | 82.71     |              |
| ymondville  | reach 2             | 142819                    | 1866.00 | 20.57     | 31.57     |           | 31.68     | 0.000334   | 2.65      | 703.87     | 85.99     |              |
| ymondville  | reach 2             | 142619                    | 5055.00 | 20.57     | 33.83     |           | 34.30     | 0.001190   | 5.53      | 955.65     | 205.50    | 0.           |
|             |                     |                           |         |           |           |           |           |            |           |            |           |              |
| ymondville  | reach 2             | 140677                    | 792.00  |           |           |           | 28,95     |            |           |            |           | 0.           |
| mondville   | reach 2             | 140877                    | 1290.00 | 20.38     |           |           | 30.44     |            |           |            |           |              |
| mondville   | reach 2             | 140677                    | 1866.00 | 20.38     |           |           | 31.35     |            |           |            |           |              |
| mondville   | reach 2             | 140877                    | 5055.00 | 20.38     | 33.92     |           | 33.93     | 0.000055   | 1.19      | 10142.63   | 3888.72   | 0            |
|             |                     |                           |         |           |           |           |           |            |           | <u> </u>   |           |              |
| mondville   | reach 2             | 138658                    | 792.00  | 20.17     | 28.59     |           | 28.63     | 0.000162   | 1.60      |            |           |              |
| mondville   | reach 2             | 138658                    | 1290.00 | 20.17     | 29.94     |           | 30.01     |            |           |            |           |              |
| mondville   | reach 2             | 138658                    | 1866.00 |           |           |           | 31.11     |            |           |            |           |              |
| mondville   | reach 2             | 138658                    | 5055.00 | 20.17     | 33.85     |           | 33.85     | 0.000025   | 0.89      | 14418,70   | 5042.01   | 0            |
|             |                     | Ale Localing to the       |         |           |           |           |           |            | ļ         | <u></u>    |           |              |
| mondville   | reach 2             | 138000                    | 792.00  |           |           |           | 28.52     |            |           |            |           |              |
| mondville   | reach 2             | 138000                    | 1290.00 |           |           |           | 29.84     |            |           |            |           |              |
| mondville   | reach 2             | 138000                    | 1866.00 |           |           |           | 30,98     |            |           |            |           |              |
| mondville   | reach 2             | 138000                    | 5055.00 | 20.10     | 33.25     | 26.93     | 33.73     | 0.001220   | 5.50      | 1084.54    | 1593.70   | ) <u> </u>   |
|             |                     |                           |         |           |           |           | 1         |            |           | 1          |           |              |
| mondville   | reach 2             | 137950                    | 792.00  |           |           |           | 28.51     |            |           |            |           |              |
| ymondville  | reach 2             | 137950                    | 1290.00 |           |           |           | 29.83     |            |           |            |           |              |
| mondville   | reach 2             | 137950                    | 1866.00 |           |           |           | 30.93     |            |           |            |           |              |
| mondville   | reach 2             | 137950                    | 5055.00 | 20.10     | 33.17     | 26.93     | 33.66     | 0.001264   | 5.66      | 976.49     | 1112.23   | 3 0          |
| 7.E.M.A.Y   | The second second   |                           |         |           |           |           | <u> </u>  | 1          |           |            |           |              |
| mondville   | reach 2             | 136663                    | 792.00  |           |           |           | 28.29     |            |           |            |           |              |
| mondville   | reach 2             | 136663                    | 1290.00 |           |           |           | 29.4      |            |           |            |           |              |
| mondville   | reach 2             | 136663                    | 1866.00 |           |           |           | 30.56     |            |           |            |           |              |
| mondville   | reach 2             | 138663                    | 5055.00 | 20.09     | 33.43     | 3         | 33.44     | 0.000022   | 0.8       | 3 15767.02 | 5307.60   | ) (          |
|             |                     |                           |         |           |           |           |           |            |           |            |           |              |
| mondville   | reach 2             | 134669                    | 792.00  | 19.90     |           |           | 27.9      |            |           |            |           |              |
| mondville   | reach 2             | 134669                    | 1290.00 |           |           | )         | 29.3      | 0.000032   | 0.7       |            |           |              |
| mondville   | reach 2             | 134869                    | 1866.00 | 19.9      | 30.49     | 9         | 30,4      |            |           |            |           |              |
| mondville   | reach 2             | 134669                    | 5055.00 |           |           |           | 33.4      |            |           |            | 5 6000.00 | 0            |
|             |                     |                           |         |           |           |           |           |            |           |            |           |              |
| ollivbnomy  | reach 2             | 132609                    | 792.00  | 19.7      | 5 27.84   | 4         | 27.8      | 5 0.000022 | 0.6       | 4 2970.9   |           |              |
| mondville   | reach 2             | 132609                    | 1290.00 |           |           |           | 29.2      |            | +         |            |           |              |
|             | reach 2             | 132609                    | 1866.00 |           |           |           | 30.4      |            |           |            |           |              |

HFC\_PAS Plan- Ray - RevEv (Continued)
River - Reach RiverSta 0 Tol Min Ch El WS Fley Crit W.S Vel Chril Flow Area C Total E.G. Elev E.G. Slope Top Width Froude # Chi (cfs) (ft) **(ft)** (ft) **(ft)** (11/11) (sq ft) (11) raymondville reach 2 132609 5055.00 19.75 33 42 3177B 30 33 42 0.000003 0.34 6000.00 0.02 raymondville mach 2 120500 792.00 19.43 27.77 27.77 0.000039 0.85 2104.13 1208 38 0.08 1290.00 raymoodville mach 2 129500 19.43 29.22 29.22 0.000021 5068.14 0.70 3957 19 0.04 raymondviša reach 2 129500 1866.00 19.43 30.47 30.47 0.000000 0.50 10404.40 4609.84 0.03 raymondville reach 2 129500 5055.00 19.43 33.41 33.41 0.000005 0.46 25383.79 5349.18 0.02 raymondville 129450 mach 2 792.00 19.43 27 7B 27 77 0.000039 0.85 2101.72 1205.69 0.08 raymondville 129450 reach 2 1290.00 19.43 29,22 29.22 0.000021 0.70 5063.94 3958.92 0.04 reach 2 129450 1866.00 19.43 30.46 30.48 0.000009 0.51 10357.99 4604.72 0.03 raymondville each 2 129450 5055.00 19.43 33.40 33 40 0.000005 0.46 25337.92 5348.54 0.02 raymondville art 2 127700 792.00 19.25 27.68 27.69 0.00006 1 07 1409 58 723.02 0.07 raymondville mach 2 127700 1290.00 19.25 29.17 29.18 0.000041 0.99 2870.87 1155 58 O DE raymondville mach 2 127700 1888.00 19.25 30.43 30,43 0.000034 0.99 4847.51 2658 80 0.05 raymondville reach 2 127700 5055 00 19.25 33.39 33.39 0.000013 0.73 17639.93 4638.40 0.04 raymondvilk reach 2 792.00 19.12 27.58 27.59 0.000097 1.08 977.43 415.30 0.08 raymondville reach 2 1290.00 19.12 29 10 29.12 0.000075 1.13 1887.35 1091.45 0.08 raymondville 1866.00 19.12 30.38 30.39 0.000047 1.00 5199 R1 4490.87 0.08 **TRYTTK** reach 2 126465 5055.00 19.12 33.38 33.38 0.000000 0.55 21962.13 6000 00 0.03 raymondville mech 2 124374 792.00 18.91 27.46 27.47 0.85 0.000038 2296.26 1650.96 0.05 raymondville reach 2 124374 1290.00 18,91 29.05 29.05 0.000014 0.59 5987.45 2881.75 0.03 124374 raymond reach 2 1866 00 18 01 30.36 30.36 0.000007 0.48 11109.09 4217.48 0.03 raymondville each 2 124374 5055.00 18 91 33 37 33.37 0.000005 0.47 24689.32 5151,49 0.02 each 2 124318 792 00 18.90 27.46 27 45 0.000041 0.73 2294 88 1650.65 0.05 raymondville reach 2 124318 1290.00 18.90 29.04 29.05 0.000014 0.51 5944 92 2847.20 0.03 mach 2 raymondville 124318 1866.00 18.90 30.35 30.35 0.000007 0.41 11069.72 4216.06 0.02 raymondville mach 2 124318 5055.00 18.90 33.37 33.36 0.000005 0.43 24645.84 5141.97 0.02 122094 raymondville reach 2 792.00 18 67 27.41 27.41 0.000022 0.60 2928.72 1525.32 0.04 raymondvi reach 2 122094 1290.00 18 67 29.02 0.000011 29.02 0.49 5574.23 1795.59 0.03 raymondville 12209 1866.00 0.48 ach 2 18.67 30.34 30.35 0.000009 8849.53 3683.54 0.03 rzymondville 122094 5055,00 reach 2 18,67 33.36 33.36 0.000007 0.53 22283.46 5150,94 0.03 raymondville reach 2 121688. 792.00 18.63 27.37 27.40 0.000124 1.41 777 12 817.83 0.10 121688. reach 2 1290.00 18.63 28.99 29.00 0.000055 1.07 2739 16 1525 90 0.07 raymondville · reach 2 121668 1866.00 18.63 30.33 30.34 0.000024 0.78 6459.85 3301 85 0.05 raymondville : reach 2 121688.\* 5055,00 18.63 33.35 D.000012 18835.65 0.67 5014.07 0.03 121283 rennendy reach 2 792 00 18 59 27 33 27.36 0.000119 715.12 1.40 277.23 0.09 raymondville reach 2 121283. 1290.00 18.59 28.94 0.000119 1.55 28.97 1714.17 1510.55 0.10 raymondville reach 2 121263 1866,00 18.59 30.33 30.33 0.000041 5006.48 0.99 3099.91 0.06 raymondville reach 2 121263 5055.00 18.59 33.35 33.36 0.000018 0.80 16421.52 5156.93 0.04 120877. reach 2 792.0 18.55 27.30 0.000112 27.32 1.38 805 42 381 12 0.09 reach 2 120877 1290.00 18.55 28.93 28.94 0.000065 1.16 2688.82 1847.97 0.07 raymondville mach 2 120877 1866 00 18 55 30.32 30.33 0.000026 5484.43 0.79 2121.86 0.05 raymondville reach 2 120877. 5055.00 18.55 33.35 0.000017 0.76 15422.12 4512.90 0.04 120472 reach 2 792.00 18.51 raymondy 27 27 27.29 0.000084 1249.07 1.18 950.79 0.08 raymondville reach 2 120472 1290.00 18.51 28.93 28.93 0.000033 0.83 3818.51 2034.07 0.05 raymondville 120472. 18.51 reach 2 1866.00 30.32 30 32 0.000018 0.67 6840.33 2708.39 0.04 reach 2 120472.1 5055.00 18.51 33.35 33.35 0.000012 0.62 15869.79 3219.76 0.03 raymondville mech 2 120087 792.00 18.47 27.26 20.61 27.27 0.000048 0.89 2027.29 1485,54 0.06 raymondville reach 2 120067 1290.00 18 47 21.40 28.92 28.93 0.000013 0.59 5032.02 2086.00 0.04 raymondville reach 2 120067 1866.00 18.47 30,32 22,16 30.32 0.000010 0.49 8914.74 3044.69 0.03 raymondville 120067 5055.00 reach 2 18.47 33.35 26.62 33.35 0.000008 0.50 18147.75 3050.75 0.03 raymondville 792.00 119652. reach 2 18.43 27.25 20.57 27.25 0.000049 0.90 1921.74 1309 40 0.06 raymondville reach 2 119852. 1290.00 18.43 28.92 21.36 28.92 0.000018 0.62 4893 93 2082.96 0.04 raymondville 119652. reach 2 1866.00 18.43 30.32 22.12 30.32 0.000011 0.51 8679.23 3044.78 0.03 raymondville ach 2 119852 5055.00 18.43 33.35 26.61 0.000008 17917.44 3074.97 0.52 0.03 raymondville reach 2 119237. 792 00 18 38 27.23 20.52 27.24 0.000050 0.92 1873.71 1264.07 0.06 raymondville reach 2 119237. 1290.00 18.38 28.92 21.31 28.92 0.000019 0.65 4752.74 2079.02 0.04 raymondvi 119237. 1868.00 reach 2 1B.3B 30 32 22 07 30.32 0.000011 8442.64 0.54 3044.86 0.03 raymondville 119237. 5055.00 reach 2 18,38 33.35 26.57 33.35 0.000008 0.54 18609.91 3834.81 0.03 raymondville reach 2 118822. 792.00 18.34 27.22 20.48 27.23 0.000050 0.94 1831.34 1245 74 0.06 raymondville reach 2 118822. 1290.00 18.34 21.27 28.91 28.92 0.000020 83.0 4669,20 2186.97 0.04 raymondville reach 2 118822 1866.00 30.31 22.03 30.32 0.000012 8550,50 0.57 3355.10 0.03 raymondville reach 2 118822 5055.00 18.34 33.34 26.53 33,35 0.000007 0.54 20727.33 5268.97 0.03 118407 raymondville reach 2 792.00 18.30 27.21 20.44 27.22 0.000045 0.93 1983.81

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0.02

| River  | Reach  | River Sta      | Q Total  | Min Ch El | W.S. Elev | Crit W.S.    | E.G. Elev   | E.G. Slope | Vel Chol    | Flow Area   | Top Width   | Froude # Ch                             |
|--|--|----------------|----------|-----------|-----------|--------------|-------------|------------|-------------|-------------|-------------|---|
|  |  |                | (cfs)    | (ft)      | (ft)      | (ft)         | (ft)        | (ft/ft)    | (ft/s)      | (sq ft)     | <b>(n</b> ) | 341 14.7                                |
|  | THE PROPERTY.  |                |          |           |           |              |             |            |             |             |             |   |
| aymondville  | reach 2  | 118184.*       | 792.00   | 18.28     | 27,20     |              | 27.21       | 0.000046   | 0.92        | 1964.05     | 1445.14     | 0.                                      |
| aymondville  | reach 2  | 118184.*       | 1290.00  | 18.28     | 28.90     |              | 28.91       | 0.000017   | 0.64        | 5185.95     | 2429.02     |   |
| aymondville  | reach 2  | 118184.*       | 1866.00  | 18.28     | 30.31     |              | 30.31       | 0.000010   | 0.56        | 9466.04     | 3928.64     |   |
| aymondville  | reach 2  | 118184.*       | 5055.00  | 18.28     | 33.34     |              | 33.34       | 0.000006   | 0.52        | 22669.47    | 5194.77     | 0                                       |
| PARTICINATION OF THE PARTIES OF THE  |  |                |          |           |           |              |             |            |             |             |             |   |
| aymondville  | reach 2  | 117962.*       | 792.00   | 18.25     | 27.19     |              | 27.19       | 0.000047   | 0.91        | 1940.89     | 1462.61     | D                                       |
| aymondville  | reach 2  | 117962.*       | 1290.00  | 18.25     | 28.90     |              | 28.90       | 0.000017   | 0.63        | 5193,94     | 2461.74     | 0                                       |
| aymondville  | reach 2  | 117962.*       | 1866.00  | 18.25     | 30.31     |              | 30.31       | 0.000009   | 0.52        | 9394.96     | 3503.40     | 0                                       |
| aymondville  | reach 2  | 117962.*       | 5055.00  | 18.25     | 33.34     |              | 33.34       | 0.000007   | 0.52        | 22140.55    | 4704.94     | 0                                       |
| political de la companya de la compa | SECULATION AND A   |                |          |           |           |              |             |            |             |             |             |   |
| aymondville  | reach 2  | 117739.*       | 792.00   | 18.23     | 27.17     |              | 27.18       | 0.000049   | 0.91        | 1915.05     | 1484.27     |   |
| aymondville  | reach 2  | 117739.*       | 1290.00  | 18.23     | 28.90     |              | 28.90       | 0.000017   | 0.62        | 5203.43     | 2482.76     |   |
|  | reach 2  | 117739.*       | 1866.00  | 18.23     | 30.31     |              | 30.31       | 0.000009   | 0.50        | 9384.48     | 3324.08     |   |
| aymondville  |  | 117739.        | 5055.00  | 18.23     | 33.34     | <del></del>  | 33.34       | 0.000006   | 0.50        | 21917.97    | 4364.71     |   |
| symondville  | reach 2  | 111100         | 3033.00  | 10.23     | 33.54     | <del> </del> |             | 0,000,000  |             | 21311.01    |             |   |
|  | A Control of the Cont | 4499474        | 792.00   | 18.20     | 27,16     |              | 27.17       | 0.000052   | 0.91        | 1892.14     | 1510.83     | 1                                       |
| raymondville   | reach 2  | 117517.*       |          |           |           |              | 28.90       | 0.000032   | 0.61        | 5215.78     | 2485.46     |   |
| raymondville   | reach 2  | 117517.*       | 1290.00  | 18.20     |           |              | 30,31       | 0.000017   | 0.48        | 9386.62     | 3293,01     |   |
| aymondville  | reach 2  | 117517."       | 1866.00  | 18.20     |           |              |             |            | 0.50        |             | 4308.43     |   |
| raymondville   | reach 2  | 117517.*       | 5055.00  | 18.20     | 33.34     |              | 33.34       | 0.000006   | 0.50        | 21755.10    | 4300.43     | <del></del>                             |
|  |  |                |          |           |           | ļ            |             |            |             | <del></del> | 4500 45     | ļ                                       |
| myrnondville .   | reach 2  | 117295         | 792.00   | 18.18     |           |              | 27.16       |            | 0.91        | 1867.54     | 1530.10     | *************************************** |
| raymondville   | reach 2  | 117295         | 1290.00  | 18.18     |           |              | 28.89       | 0.000017   | 0.59        | 5240.10     | 2448,90     |   |
| aymondville  | reach 2  | 117295         | 1866.00  | 18.18     |           |              | 30.30       |            | 0.47        | 9392.14     | 3260.07     |   |
| raymondville   | reach 2  | 117295         | 5055.00  | 18.18     | 33.34     | <u> </u>     | 33.34       | 0.000007   | 0.49        | 21599.64    | 4281,11     |   |
|  |  | A FREE TO SUR! | L        |           |           |              | -           |            |             |             |             | <del></del>                             |
| raymondville   | reach 2  | 114850         | 792.00   | 17.93     | 26.92     |              | 26.95       | 0.000128   | 1.47        | 538.90      | 77.94       |   |
| raymondville   | reach 2  | 114850         | 1290.00  | 17.93     | 28.74     |              | 28.79       | 0.000170   | 1.88        | 687.56      | 85.23       |   |
| raymondville   | reach 2  | 114850         | 1866.00  | 17.93     |           |              | 30.24       | 0.000224   | 2.30        | 826.62      | 276.18      |   |
| aymondville  | reach 2  | 114850         | 5055.00  | 17.93     | 33.27     |              | 33.29       | 0.000107   | 1.83        | 7454.04     | 3926.46     | j]                                      |
| COLUMN TO THE PARTY  | Version Committee  | 14.78.7135     | 1        |           |           |              |             |            |             |             |             |   |
| raymondville   | reach 2  | 114401.*       | 792.00   | 17.88     | 26.86     |              | 26.89       | 0.000128   | 1.44        | 551.11      | 83.27       | 7                                       |
| raymondville   | reach 2  | 114401.*       | 1290.00  | 17.88     |           |              | 28,72       |            | 1.82        | 710.35      | 92.52       | 2                                       |
| aymondylle   | reach 2  | 114401.        | 1866.00  | 17.88     |           |              | 30.14       |            | 2.21        |             | 187.87      |   |
|  | reach 2  | 114401.*       | 5055.00  | 17.88     |           |              | 33.26       |            | 1.28        |             | 4625.27     |   |
| rzymondville   | IDEAL 2  | 114401.        | 5035.00  | 17.00     | 35.20     | <del></del>  | -           | 0.20000    |             | 10.00,01    | 1020        | <del> </del>                            |
|  |  | 4404594        | 792.00   | 17.84     | 26.79     | <del></del>  | 26.82       | 0.000133   | 1.41        | 560.25      | 89.73       | 3                                       |
| raymondville   | reach 2  | 113953.*       |          |           |           |              | 28.65       |            | 1.76        |             | 102.07      |   |
| raymondville   | reach 2  | 113953.*       | 1290.00  |           |           |              | <del></del> |            | 2.03        |             | 1585.45     |   |
| raymondville   | reach 2  | 113953.*       | 1886.00  |           |           |              | 30.04       |            |             |             |             |   |
| raymondville   | reach 2  | 113953.*       | 5055.00  | 17.84     | 33.25     | <u></u>      | 33.25       | 0.000025   | 0.91        | 14167.56    | 4760.99     | -                                       |
|  |  | 21年後間20年2      |          |           |           |              |             |            |             |             |             | -                                       |
| raymondville.  | reach 2  | 113504.*       | 792.00   |           |           |              | 26.75       |            | 1.39        |             |             |   |
| raymondviše  | reach 2  | 113504.*       | 1290.00  |           |           |              | 28.57       |            | 1.65        |             |             |   |
| raymondville   | reach 2  | 113504.*       | 1866.00  |           |           |              | 29.98       |            | 1.29        |             | 2902.6      | <del></del>                             |
| raymondville   | reach 2  | 113504."       | 5055.00  | 17.79     | 33.24     | •            | 33.24       | 0.000014   | 0.69        | 17384.10    | 4688.6      | 5                                       |
|  |  |                |          |           |           |              |             |            |             |             | ļ           |   |
| raymondville   | reach 2  | 113056.*       | 792.00   |           |           |              | 26.68       |            | 1.35        |             | 313.8       |   |
| raymondville   | reach 2  | 113056.*       | 1290.00  |           |           |              | 28.52       |            | 1.05        |             | 1720.5      |   |
| raymondville   | reach 2  | 113056.*       | 1866.00  |           |           |              | 29.96       |            | 0.75        |             | 3188.0      |   |
| raymondville   | reach 2  | 113056.*       | 5055.00  | 17.79     | 33.2      | 3            | 33.2        | 0.000008   | 0.54        | 20303.26    | 4572.0      | 4                                       |
| 1230176  | Carrier St. Joseph St.   |                |          |           |           |              |             |            | L           | I           |             |   |
| raymondville   | reach 2  | 112608         | 792.00   | 17.70     | 26.6      | 2            | 26.63       |            |             |             |             |   |
| raymondville   | reach 2  | 112608         | 1290.00  |           |           | 0            | 28.5        |            |             | 4754.33     | 2448.9      | 8                                       |
| raymondville   | reach 2  | 112608         | 1866.00  |           |           |              | 29.9        | 0.000010   | 0.47        | 8963.99     | 3234.1      | 2                                       |
| raymondville   | reach 2  | 112606         | 5055.00  |           |           |              | 33.2        | 3 0.000006 | 0.44        | 22928.57    | 4431.6      | 3                                       |
| 715 to 640 V   |  |                |          |           | 1         |              | 1           |            |             |             |             |   |
| raymondville   | reach 2  | 112513.*       | 792.00   | 17.6      | 9 26.6    | 0            | 26.6        | 3 0.000147 | 1.33        | 2 662.21    | 380.7       | 3                                       |
| raymondville   | reach 2  | 112513.*       | 1290.00  |           |           |              | 28.4        |            |             |             |             |   |
| raymondville   | reach 2  | 112513.*       | 1866.00  |           |           |              | 29.9        |            |             |             |             |   |
|  |  | 112513.*       | 5055.00  |           |           |              | 33.2        |            |             |             |             |   |
| raymondville   | reach 2  |                | 3035.00  | 17.0      | 33.2      | -            | 30.2        | 5.55550    | 1           |             |             | 1                                       |
|  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 220220         | 707.0    | 17.6      | 9 26.5    | 8            | 26.6        | 1 0.000139 | 1.3         | 9 570.73    | 97.5        | 7                                       |
| raymondville   | reach 2  | 112419.*       | 792.00   |           |           |              | 28.4        |            |             |             |             |   |
| raymondville   | reach 2  | 112419.*       | 1290.00  |           |           |              | 29.9        |            |             |             |             |   |
| raymondville   | reach 2  | 112419.*       | 1866.00  |           |           |              |             |            | +           |             |             |   |
| raymondville   | reach 2  | 112419.*       | 5055.00  | 17.6      | 9 33.2    | 4            | 33.2        | 1 0.00000  | 0.5         | 21039.76    | 3453.2      | <del>*</del>                            |
|  |  | 21 2 8 32      | 1        | +         |           | <del>_</del> | ·           | 0          | <del></del> | 2 550 55    |             | <u> </u>                                |
| raymondville   | reach 2  | 112324.*       | 792.00   |           |           |              | 26.6        |            |             |             |             |   |
| raymondville   | reach 2  | 112324.*       | 1290.00  |           |           |              | 28.4        |            |             |             |             |   |
| raymondville   | reach 2  | 112324.*       | 1866.0   |           |           |              | 29.9        |            |             |             |             |   |
| raymondville   | reach 2  | 112324.*       | 5055.0   | 17.6      | 8 33.2    | .0           | 33.2        | 1 0,00001  | 0.6         | 2 20512.40  | 5726.6      | JU                                      |
| - See 1880   |  |                | 1        |           |           |              |             |            |             |             |             |   |
| raymondville   | reach 2  | 112230         | 792.0    | 17.6      | 7 26.5    | 15           | 26.5        |            |             |             |             |   |
| raymondville   | reach 2  | 112230         | 1290.0   |           |           |              | 28.4        | 5 0.00017  | 5 1.8       | 9 680.8     | 1 84.9      | 11                                      |
| raymondville   | reach 2  | 112230         | 1866.0   |           |           |              | 29.9        |            | 9 2.3       | 1 806.09    | 9 90.0      | 52                                      |
| raymondville   | reach 2  | 112230         | 5055.0   |           |           |              | 33.2        |            |             |             |             | 00                                      |
| - ayitaniavila   | TEGG, Z  | 1.120          | 1 -555.5 |           | 1         | 1            | 1           | 1          | 1           | 1           |             |   |
|  | manh 2   | 110000         | 792.0    | 0 17.5    | 0 26.3    | 14           | 26.3        | 0.00013    | 6 1.5       | 0 527.4     | 5 77.3      | 35                                      |
| raymondville   | reach 2  | 110608         | 1290.0   |           |           |              | 28.1        |            |             |             |             |   |
| raymondville   | reach 2  | 110608         |          |           |           |              | 29.5        |            |             |             |             |   |
| raymondville   | reach 2  | 110608         | 1866.0   |           |           |              |             |            |             |             |             |   |
| raymondville   | reach 2  | 110608         | 5055.0   | 0 17.5    | 33.1      | 101          | 33.1        | 0.00001    | ب. ∪.و      | , 19090.9   | 3 GVUU.     | JU                                      |

River Reach River Stat Q Total Vel Chril Flow Area Top Width Froude # Chl Crit W.S. E.G. Elev E.G. Slope Min Ch El W.S. Elev (11) (It/It) (fVs) (sq ft): (ft) (ft) **(ft)** (ft) (cfs) 85.84 0.02 0.000004 700.57 21.30 32.26 32,26 144530 200.00 raymondville reach 3 (south) 94.73 0.02 34,48 0.38 901.13 0.000000 342.00 21.30 34.48 reach 3 (south) raymondville 36,54 0.23 6448.70 3516.52 0.01 0.000002 526 00 21.30 36.54 raymondville each 3 (south) 44530 15705.66 3516.52 0.01 39.1 0.000001 0.17 39.17 44530 1146.00 21,30 raymondville reach 3 (south) 85.84 0.02 32,26 0.000004 0.29 700.47 32.26 21.30 reach 3 (south) 144230 200.00 raymondville 0.02 34,48 0.000006 0.38 900.97 94.72 21.30 34.48 raymondville ch 3 (south) 144230 342.00 0.01 3516.52 36.54 36.54 0.000002 0.23 6446.97 526.00 21.30 raymondville reach 3 (south) 144230 3516.52 0.01 15704.93 39,17 0.000001 0.17 1146.00 21.30 39.17 raymondville 144230 reach 3 (south) 44,45 0 12 1.64 122.18 27.58 32.25 0.000175 200.00 26.10 32.21 each 3 (south) raymondville 53.23 0.13 0.000183 2.06 166,07 28.18 34,47 each 3 (south) 342.00 26 10 34.41 raymondville 144030 2.55 206.49 61 31 0.14 36.53 0.000210 28.87 526.00 26.10 36.43 raymondvill reach 3 (south) 144030 1.89 874.69 2554.83 0.12 30.76 39,17 0.000171 144030 1146.00 26.10 39.11 raymondville sch 3 (south) 0.12 1.64 122.17 44,45 26.10 32.21 27.56 32,25 0.000175 200.00 niymondville reach 3 (south) 144020 0.13 53.22 34.40 28.18 34,47 0.000184 2.06 166.03 342.00 26.10 raymondville reach 3 (south) 144020 61.30 0.14 26.10 36.43 28.87 36,53 0.000210 2.55 208,45 526.00 reach 3 (south) 0.12 2554.83 0.000171 1.89 44020 26.10 39.11 30.76 39.16 1146.00 rzymondville reach 3 (south) Culve reach 3 (south) 44005 raymondville 0.13 27.56 31.97 0.000205 1.72 116.38 43.29 26.10 31.92 200.00 raymondville reach 3 (south) 143990 0.14 152.74 50.58 28.18 33.82 0.000242 2.24 26.10 33.74 raymondville 342.00 reach 3 (south) 43990 173.92 54.80 0.18 34.80 28.87 34.94 0.000372 3.02 526.00 26.10 143990 reach 3 (south) 0.33 194,90 5.88 35.85 30.76 36.39 0.001208 143990 1145.00 26.1D raymondville reach 3 (south) 1.08 184 77 43.34 0.09 0.000133 31.93 31.95 43980 200.00 26 10 reach 3 (south) raymondville 0.000136 1.26 270.81 50.66 0.10 33.79 33.77 reach 3 (south 143980 342.00 26,10 raymondville 54.99 0.12 34.89 0.000190 1.60 327.98 34.85 raymondville reach 3 (south 143980 526.00 26.10 0.20 59.78 38.17 0.000537 2.89 396.64 36.04 raymondville reach 3 (south) 143950 1146.00 26.10 1.08 184.90 43.35 0.09 0.000133 31.68 25.82 31.66 141900 200.00 raymondville reach 3 (south) 50.65 0.10 1.26 270.70 33,51 0.000136 141900 342.00 25.82 33.48 raymondville reach 3 (south) 0.000080 1.08 2332.52 3993.73 0.08 34.63 141900 526.00 25.82 34 62 raymondville reach 3 (south) 0.67 9311.63 5688.44 0.04 0.000024 36.01 1146.00 25.82 38.00 141900 raymondville ach 3 (south) 0.09 0.000133 1 08 185.00 43.36 25.65 31.49 31.51 140681 200.00 reach 3 (south) raymondville 694.90 0.09 0.000132 1.24 372.24 33.31 33.34 25.65 raymondville 140551 342.00 reach 3 (south) 0.06 34.55 34,56 0.000051 0.87 2763.99 25.65 raymondville reach 3 (south) 140581 526.00 5247.93 0.04 35.98 0.000022 0.64 8919.97 25.65 35.98 1146.00 raymondville ach 3 (south) 140581 184.68 43,33 0.09 0.000134 1.08 25.51 31 34 31.36 200.00 139474 raymondville reach 3 (south 386 69 0.10 33,19 0.000135 1.26 298.25 342.00 25 51 33.17 raymondville reach 3 (south) 2536.86 0.91 3003.26 0.06 526.00 25 51 34.48 raymondvi reach 3 (south) 0,04 35.95 0.66 8757.43 5213.19 1146.00 25.51 35.95 raymondville each 3 (south) 139474 43.30 0.09 184.41 31,16 0.000134 1.08 200.00 25.32 31.15 raymondville reach 3 (south) 128076 1.27 269.66 50.57 0.10 32.96 32 99 0.000137 25.32 raymondville reach 3 (south) 138076 342.00 0.07 0.97 2806.80 34.40 0.000064 528.00 25.32 34.39 reach 3 (south) 138076 0.67 5166.94 0.04 0.000023 1146,00 25.32 35.91 35,91 raymondville reach 3 (south) 1.09 183.71 43.24 0.09 30.97 0.000135 30.95 138026 200.00 25.14 reach 3 (south) raymondville 0.10 0.000139 1 27 268.46 50.47 32.78 reach 3 (south) 138026 342.00 25,14 32.76 raymondville 2592.78 0.07 34.29 0.000073 1.03 1991.99 25.14 34.28 526.00 raymondville 5120.89 0.04 8374.54 35,87 0.000024 0.69 reach 3 (south) 1146.00 25.14 raymondville 138026 0.000137 182.97 43.16 0.09 1.09 30.77 200.00 24.96 30.75 raymondville 130620 mach 3 (nouth) 0.000141 267.20 50.36 0.10 32.58 1.28 342.00 24.96 32.55 raymondville reach 3 (south) 1.18 1426,41 1908.62 0.08 34.18 0.000097 526.00 24 96 34.16 raymondville reach 3 (south) 0.05 35.83 0.78 7192.22 4856.41 0.000032 reach 3 (south) 1146.00 24.96 35.82 raymondville 0.09 183,12 43.19 30.56 0.000137 1.09 24.75 30.55 200,00 reach 3 (south) 135048 raymondville 0.10 266.73 50,35 24.75 32.33 32 36 0.000141 1.28 raymondville reach & (south) 135048 342.00 1426.18 0.09 1032.94 526.00 24.75 33.99 34.01 0.000116 1.29 135048 raymondville reach 3 (south) 3741.49 0.06 0.92 5643.8 24.75 35.76 35.76 0.000045 135048 mach 3 (south) 43.11 0.09 1.10 182 28 30,38 0.000138 30,36 133745 200.00 24.58 each 3 (south) raymondville 0.10 50.28 32.17 0.000143 1.29 265.94 32.15 133745 342 00 24.58 raymondville reach 3 (south) 1199.35 0.10 828.61 33.85 0.000127 1.35 33.83 133745 24.58 526.00 saymondville reach 3 (south) 3652.64 0.06 35.69 0.000049 0.95 5394.36 35.69 24.58 133745 1146.00 raymondville each 3 (south) 43.01 0.09 0.000141 1.10 181.22 24.39 30.14 30.16 200.00 raymondville mach 3 (south) 132244 50.15 0.10 1.29 264.36 0.000145 24.39 31.93 31,95 342.00 raymondville reach 3 (south) 132244 1.42 621.44 912.82 0.10 0.000141 33,65 132244 526.00 24.39 33.62 reach 3 (south) 0.000048 0.94 5937.20 4813.09 0.06 35.63 1146.00 24.39 35.62 132244 raymondville reach 3 (south) 42.98 0.09 180.93 29.93 0.000141 1.11 29.92 each 3 (south) 30592 200.00 24.17 raymondville 0,10 50.09 31.72 263.67 31.69 0.000148 1.30 130592 342.00 24.17 reach 3 (south) raymondville 353.79 0.11 33 41 0.000154 1.49 24.17 rzymondville 130592 526.00 reach 3 (south) B583.44 6500.00 0.05 0.78 35.57 0.000030 1146.00 reach 3 (south) 130592

| River  | Plan• Rav Ro<br>Reach | River Sta        | Q Total          | Min Ch El      | W.S. Elev      | Crit W.S.                             | E.G. Elev      | E.G. Slope           | Vel Chini    | Flow Area        | Top Width      | Froude # Chl |
|--|-----------------------|------------------|------------------|----------------|----------------|---------------------------------------|----------------|----------------------|--------------|------------------|----------------|--------------|
| Tibile W   |                       | Kalanga da       | (cfs)            | (ft)           | (ft)           | (ft)                                  | (ft)           | (fVft)               | (11/8)       | (sq ft)          | (40)           |              |
|  |                       |                  |                  |                |                |                                       |                |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 129120           | 200.00           | 23.98          | 29,71          |                                       | 29.73          |                      | 1.11         | 180.11           | 42.91          | 0.10         |
| raymondville                                     | reach 3 (south)       | 129120           | 342.00<br>526.00 | 23.98          | 31.48          | <u> </u>                              | 31.50<br>33.18 | 0,000148<br>0,000157 | 1.30<br>1.50 | 262.35<br>351.47 | 49.99          | 0.10         |
| raymondville                                     | reach 3 (south)       | 129120           | 1146.00          | 23.98<br>23.98 | 33.15<br>35.51 |                                       | 35.10          | 0,000033             | 0.82         | 8229.57          | . 6500,00      | 0.11<br>0.05 |
|  | National State        |                  | 11,10,00         |                | 50.51          |                                       |                | 0,000                | V.02         | 0220.01          | . 0000,00      | 5.50         |
| raymondville                                     | reach 3 (south)       | 127694           | 200.00           | 23.79          | 29.50          |                                       | 29.52          | 0,000145             | 1.12         | 179.29           | 42.83          | 0.10         |
| raymondvilla :                                   | reach 3 (south)       | 127694           | 342.00           | 23.79          | 31.26          |                                       | 31.29          |                      | 1.31         | 261.03           | 49.88          | 0.10         |
| raymondville                                     | reach 3 (south)       | 127694           | 526.00           | 23.79          | 32.92          |                                       | 32.95          | 0.000160             | 1.51         | 349.16           | 56.51          | 0.11         |
| raymondville                                     | reach 3 (south)       | 127694           | 1146.00          | 23.79          | 35.45          |                                       | 35.46          | 0.000036             | 0.86         | 7875.85          | 6500.00        | 0.05         |
| raymondville                                     | reach 3 (south)       | 126200           | 200,00           | 23.60          | 29.28          |                                       | 29.30          | 0,000148             | 1.12         | 178.07           | 42.72          | 0.10         |
| raymondville                                     | reach 3 (south)       | 126200           | 342.00           | 23.60          | 31.03          |                                       | 31.06          |                      | 1.32         | 259.24           | 49.74          | 0.10         |
| raymondville                                     | reach 3 (south)       | 126200           | 526.00           | 23.60          | 32.68          |                                       | 32.71          | 0.000164             | 1.52         | 346.24           | 56.30          | 0.11         |
| raymondville                                     | reach 3 (south)       | 126200           | 1146.00          | 23.60          | 35.40          |                                       | 35.40          | 0.000039             | 0.90         | 7522.26          | 6500.00        | 0.06         |
|  |                       |                  |                  |                |                |                                       |                |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 126152           | 200.00           | 23.59          | 29.27          | <u> </u>                              | 29.29          |                      | 1.12         | 178.18           | 42.73          | 0.10         |
| raymondville<br>raymondville                     | reach 3 (south)       | 126152<br>126152 | 342.00<br>526.00 | 23.59<br>23.59 | 31.03<br>32.67 |                                       | 31.05<br>32.70 |                      | 1.32<br>1.52 | 259.35<br>346.34 | 49.75<br>56.31 | 0.10<br>0.11 |
| raymondville                                     | reach 3 (south)       | 128152           | 1146.00          | 23.59          | 35.39          | <u> </u>                              | 35.40          |                      | 0.90         | 7509.89          | 6500.00        | 0.06         |
|  | alies and             |                  | 1110.00          | 20.00          | 00.00          |                                       |                | 3.00000              | 0.00         | 1000.00          | 0000.00        | 0.00         |
| raymondville                                     | reach 3 (south)       | 124435           | 200.00           | 23,37          | 29.01          |                                       | 29.03          | 0.000151             | 1.13         | 176.62           | 42.58          | 0.10         |
| raymondville                                     | reach 3 (south)       | 124435           | 342.00           | 23.37          | 30.76          |                                       | 30.79          | 0.000156             | 1.33         | 257.08           | 49.56          | 0.10         |
| raymondville                                     | reach 3 (south)       | 124435           | 526.00           | 23.37          | 32.38          |                                       | 32.42          |                      | 1.54         | 342.64           | 56,05          | 0.11         |
| raymondville                                     | reach 3 (south)       | 124435           | 1146.00          | 23.37          | 35.33          | <u> </u>                              | 35.33          | 0.000043             | 0.95         | 7089.92          | 6500.00        | 0.06         |
|  | Size Character        | 123138           | 200.00           | 22.52          | 00.00          | <del> </del>                          | 20.04          | 0.000454             | 1.14         | 175.41           | 42.47          | 0.40         |
| raymondville<br>raymondville                     | reach 3 (south)       | 123138<br>123138 | 200,00<br>342,00 | 23.20<br>23.20 | 28.82<br>30.56 | <del> </del>                          | 28.84<br>30.58 |                      |              | 175.41<br>255.34 | 42.47<br>49.42 | 0.10<br>0.10 |
| raymondville                                     | reach 3 (south)       | 123138           | 526.00           | 23.20          | 32.16          |                                       | 32.20          |                      | 1.55         | 339.75           | 55.84          | 0.10         |
| raymondville                                     | reach 3 (south)       | 123138           | 1146.00          | 23.20          | 35.26          |                                       | 35.27          | 0.000048             | 1.01         | 6666.98          | 6500.00        | 0.06         |
| Janes Ki   |                       |                  |                  |                |                |                                       |                |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 121629           | 200.00           | 23.01          | 28.57          | <u> </u>                              | 28.59          |                      | 1.16         | 173.15           | 42.25          | 0,10         |
| raymondville                                     | reach 3 (south)       | 121629           | 342.00           | 23.01          | 30.31          |                                       | 30.33          |                      | 1.36         | 252.34           | 49.18          | 0.11         |
| raymondville                                     | reach 3 (south)       | 121629           | 526.00           | 23.01          | 31.89          | <u> </u>                              | 31.92          |                      | 1.57         | 335.09           | 55.50          | 0.11         |
| raymondville                                     | reach 3 (south)       | 121629           | 1146.00          | 23.01          | 35.18          |                                       | 35.19          | 0.000055             | 1.08         | 6137.53          | 6500.00        | 0.07         |
| raymondville                                     | reach 3 (south)       | 120128           | 200.00           | 22.81          | 28.33          |                                       | 28.35          | 0.000165             | 1.17         | 171.31           | 42.08          | 0.10         |
| raymondville                                     | reach 3 (south)       | 120128           | 342.00           | 22.81          | 30.05          |                                       | 30.08          |                      | 1.37         | 249.85           | 48.98          | 0.11         |
| raymondville                                     | reach 3 (south)       | 120128           | 526.00           | 22.81          | 31.61          |                                       | 31.65          | 0.000185             | 1.59         | 331.00           | 55.21          | 0.11         |
| raymondville                                     | reach 3 (south)       | 120128           | 1146.00          | 22.81          | 35.08          |                                       | 35.10          | 0,000065             | 1.17         | 5547.25          | 6500.00        | 0.07         |
|  |                       |                  |                  |                |                |                                       |                | <u> </u>             |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 120078           | 200.00           | 22.80          | 28.32<br>30.05 |                                       | 28.34<br>30.07 | <u> </u>             | 1.17         | 171.38           | 42.08          | 0.10<br>0.11 |
| raymondville<br>raymondville                     | reach 3 (south)       | 120078           | 342.00<br>526.00 | 22.80<br>22.80 | 31.60          | · · · · · · · · · · · · · · · · · · · | 31.64          |                      | 1.37         |                  | 48.98<br>55.21 | 0.11         |
| raymondville                                     | reach 3 (south)       | 120078           | 1146.00          | 22.80          | 35,08          |                                       | 35.09          |                      |              |                  | 6500.00        | 0.07         |
|  |                       |                  |                  |                |                |                                       |                |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 118101           | 200.00           | 22.55          | 27.98          |                                       | 28.01          | 0.000175             | 1.19         | 167.74           | 41.74          | 0.10         |
| raymondville                                     | reach 3 (south)       | 118101           | 342.00           | 22.55          | 29.70          |                                       | 29.73          |                      | 1.39         |                  | 48.60          | 0.11         |
| raymondville                                     | reach 3 (south)       | 118101           | 526.00           | 22.55          | 31.22          |                                       | 31.26          |                      | <del></del>  |                  | 54.69          | 0.12         |
| raymondville                                     | reach 3 (south)       | 118101           | 1146.00          | 22.55          | 34.93          | <del> </del>                          | 34.94          | 0,000084             | 1.33         | 4555.78          | 6212.73        | 0.08         |
| raymondville                                     | reach 3 (south)       | 118051           | 200.00           | 22.54          | 27.96          |                                       | 28.00          | 0,000174             | 1.19         | 167.79           | 41.74          | 0.10         |
| raymondville                                     | reach 3 (south)       | 118051           | 342.00           | 22.54          | 29.69          |                                       | 29.72          |                      |              |                  | 48.61          | 0.11         |
| raymondville                                     | reach 3 (south)       | 118051           | 526.00           | 22.54          | 31.21          |                                       | 31.25          |                      | 1.62         | 323.90           | 54.69          | 0.12         |
| raymondville                                     | reach 3 (south)       | 118051           | 1146.00          | 22.54          | 34.92          |                                       | 34.94          | 0.000084             | 1.34         | 4528.80          | 6195.16        | 0.08         |
|  |                       | 20000            |                  |                |                | <u> </u>                              | ļ              |                      | ļ            | 4555             |                | <u> </u>     |
| nymondville                                      | reach 3 (south)       | 116902<br>116902 | 200.00<br>342.00 |                |                |                                       | 27.79<br>29.51 |                      | 1.21         |                  | 41.52<br>48.37 | 0.11<br>0.11 |
| raymondville<br>raymondville                     | reach 3 (south)       | 116902           | 526.00           |                |                |                                       | 31.02          |                      |              |                  |                | 0.11         |
| raymondville                                     | reach 3 (south)       | 116902           | 1146.00          |                |                |                                       | 34.83          |                      |              |                  |                |              |
|  |                       | 8 200            |                  |                |                |                                       |                |                      |              |                  |                |              |
| niymondvile                                      | reach 3 (south)       | 114860           | 200,00           |                | 27.38          |                                       | 27.41          |                      |              |                  |                | 0.11         |
| raymondväle                                      | reach 3 (south)       | 114860           | 342.00           |                |                |                                       | 29.13          |                      |              |                  |                |              |
| raymondvále                                      | reach 3 (south)       | 114860           | 526.00           |                |                |                                       | 30.60          |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 114860           | 1146.00          | 22.13          | 34.54          | <u> </u>                              | 34.58          | 0.000151             | 1.70         | 1911.54          | 2004.00        | 0.11         |
| raymondville                                     | reach 3 (south)       | 113007           | 200.00           | 21.88          | 26.99          | )                                     | 27.02          | 0.000219             | 1.29         | 154.59           | 40.46          | 0.12         |
| raymondville                                     | reach 3 (south)       | 113007           | 342.00           |                |                |                                       | 28.75          |                      |              | +                |                |              |
| raymondville                                     | reach 3 (south)       | 113007           | 526.00           |                |                |                                       | 30.17          | 7 0,000241           | 1.75         |                  |                | 0.13         |
| raymondville                                     | reach 3 (south)       | 113007           | 1146.00          | 21.88          | 34.16          | 9                                     | 34.2           | 0.000223             | 2.09         | 548.54           | 69.20          | 0.13         |
| 100 is 1975.                                     | 14,12                 | 148-5-           | <del></del>      | 1              |                | <del> </del>                          | <del> </del>   |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 112058           | 200.00           |                |                |                                       | 26.80          |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 112058           | 342.00<br>526.00 | +              |                |                                       | 28.54          |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 112058           | 1146.00          |                |                |                                       | 34.0           | <del></del>          |              |                  |                |              |
| , ayılıkı katalısı                               |                       | 1.4200           | 1140,00          |                |                |                                       | 7.0            |                      | 1            | 1                | 1              | 1            |
| raymondvitle                                     | reach 3 (south)       | 112008           | 200.00           | 21.75          | 26.7           | 7                                     | 26.79          | 9 0.000236           | 1.33         | 150.61           | 40.08          | 0.12         |
| raymondville                                     | reach 3 (south)       | 11200B           | 342.00           | 21.75          | 28.50          | )                                     | 28.5           |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 112008           | 526.00           |                |                |                                       | 29.9           |                      |              |                  |                |              |
| raymondville                                     | reach 3 (south)       | 112008           | 1146,00          | 21,75          | 33.9           | 5                                     | 34.0           | 2 0,000230           | 2.12         | 541.76           | 68,80          | 0.13         |
| <ul> <li>And the second second second</li> </ul> | virte di Granda       | T 200 4          | ł                | 1              | L              | 1                                     | 1              | .1                   | 11           | 1                | 1              |              |

HEC\_RAS Plan. Pay - RoyEy (Continued)
River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chi (cfs) (8) (11) (11) (ft) (11/11) (fVs) (80 ft) (ft) ntymondville reach 3 (south) 110270 200.00 26.31 26 35 0.000281 1 41 141 AR 30 14 0.13 raymondville reach 3 (south) 110270 342.00 21.53 28.08 1.58 28.12 0.000250 216 91 46 21 0.13 raymondville reach 3 (south) 525.00 21.53 29,39 0.000290 1.87 29.45 280.99 51.48 0.14 raymondville reach 3 (south) 110270 1146.00 21.53 33.53 33.61 0.000247 2.17 528.20 68.01 0.14 raymondville mach 1 109185 919.00 17.51 26.13 26.17 1.54 596.80 88.55 0.10 raymondville reach:1 109185 1436.00 17.51 27.86 0.000178 1.90 27.91 755.21 95.43 0.12 0.000240 revmondville reach 1 109185 2061.00 17.51 20.09 29 17 2.35 875.72 100.38 0.14 raymondville 109185 reach 1 5206.00 17.51 32.84 33,10 0.000525 4.07 1280.60 115.37 0.22 raymondville 109050 919.00 17 49 26.11 26.15 0.000143 1.54 596 88 88 55 0.10 raymondville reach 1 109050 1436.00 17.49 27.83 27.89 0,000178 1.90 754.63 95.42 0.12 raymondville reach 1 109050 2061.00 17.49 29.14 29.05 0.000241 2.36 874 45 100.31 0.14 raymondville mach 1 109050 5206.00 17,49 32.77 33.03 0.000532 4.09 1274.36 115,16 0.22 raymondville reach 1 108145 919.00 17 35 26.06 26.09 0.000138 1.52 604.19 88.88 0.10 raymondville reach 1 108145 1436 00 17.35 27 7B 27.81 0.000174 1 89 761.29 95.69 0.12 raymondville reach 1 108145 2061.00 17.35 28 95 29 04 0.000238 2 35 8 8.46 100.47 0.14 raymondville reach 1 108145 5206.00 17.35 32.54 32.80 0.000544 4.12 1294 26 114.80 0.22 таутпопфийе reach 1 107740 17.35 919.00 26.00 0.000142 1.53 26.04 599.09 88.65 0.10 raymondville reach 1 107740 1436.00 17.35 27.69 27.74 0.000178 1.90 754.38 95.40 D.12 raymondville mach 1 107740 2061.00 17.35 28.85 0.000248 2.37 868.43 100.07 0.14 raymondville reach 1 107740 5206.00 17.35 32.30 32.57 0.000578 4.21 1236.83 113,84 0.23 raymondville reach 1 106578 919 00 17.16 25 R4 19 49 25.87 0.000140 1 53 601 44 88.76 0.10 raymondville reach 1 106578 1436.00 17.16 27.48 20.14 27.54 0.000179 1.91 752 68 95 33 0.12 raymondville reach t 106578 2061.00 28.56 17.16 20.84 28.65 0.000254 2.40 858.24 99.88 0.14 raymondville ach 1 5206.00 17.16 31.54 4.44 23.49 31.85 0.000671 1173.04 111.58 0.24 raymondville mach 1 106370 919.00 17.13 25.81 19.44 25.84 91.00 0.000137 1.51 610.53 0.10 raymondville reach 1 106370 1436.00 17.13 27.44 20.11 27.50 0.000175 1.88 98.01 0.12 108370 revmondvilk reach 1 2061 00 17 13 28 51 20.80 28 60 0.000249 2.36 872.24 102.50 0.14 106370 raye reach.1 5206.00 17.13 31.41 23 46 31.71 0.000665 4.38 1187.49 115.00 0.24 919.00 rzymondville reach 1 105922 17.08 25.75 19.37 0.000137 25.78 1.51 608.87 90.45 0.10 raymondville reach 1 105922. 1436.00 17.06 27.36 27,42 20.04 0.000177 1.89 760.49 97.25 0.12 reach 1 raymondville 105922. 2061.00 17.06 28.39 20.73 28,48 0.000255 2.39 862.55 101.57 0.14 reach 1 31.39 nondville 05922 5206.00 17.06 31.08 23.40 0.000729 4.52 1151.69 114,17 0.25 105474 ступтилистийн mach 1 919 00 16 99 25.68 19.30 25.72 0.000138 1.51 607.35 89.91 0.10 raymondville mach.1 105474 1438.00 16 99 27 28 19.97 27.34 0.000179 1.90 756.08 96.51 0.12 105474. raymondville reach 1 2061.00 16.99 28.27 20.66 28.36 0.000261 2.42 853,17 100.59 0.15 raymondville reach 1 105474. 5206.00 16.99 30.71 23.33 31.05 0.000603 4.68 1111.85 112.28 0.26 106026. mymondville reach I 919.00 16.91 25.62 19.23 25.66 0.000137 1.51 606.67 89.42 0.10 raymondville reach t 105026.1 1436.00 16.91 27.20 19.89 27.25 0.000180 1.91 752.58 95.83 0.12 reach 1 105028.1 2061.00 16.91 28.14 20.59 28.23 0.000267 844.85 99.67 0.15 mach 1 105028 5208.00 16.91 30.30 raymondville 23.26 30.67 0.000874 4.B7 1069.62 108.46 0.27 104578 919.00 15.84 raymondville reach:1 25.56 19.16 25.60 0.000137 1.52 605 44 88,94 0.10 zymondvilie 104578 1436.00 reach 1 16.84 27.12 19 82 27.17 0.000182 1.92 748 58 95.16 0.12 rzymondville 104578 16.84 reach 1 2061.00 28.02 20.52 28.11 0.000274 2.47 838.09 98.77 0.15 raymondville each 1 104578 5206.00 29.85 23,19 30.25 0.000983 106.10 5.0B 1023.88 0.29 reach 1 102128 919.00 16.43 25.16 25.19 0.000202 1.49 656.78 424.99 0.12 raymondville reach 1 102128 1436 00 16.43 26.80 26.82 0.000109 1.33 1881.59 1113,50 0.09 raymondville mach 1 102128 2081.00 16 43 27 72 27 73 0.000090 1,32 3030.72 1392.92 0.09 rsymondville reach 1 102128 5206.00 16.43 29.44 29.48 0.000129 1.81 7239.06 3357.74 0.11 reach 1 919.00 18.19 24.93 raymondville 0.000119 18.49 24,98 671 72 105.00 1.37 0.10 raymondville 19.15 26.68 reach 1 100515 1436.00 16.19 26.65 0.000087 1.37 1789.69 1014.06 0.09 reach 1 2061.00 raymondville 100015 18.19 27.58 19.82 27.80 0.000080 1.42 3105.62 1667.93 0.08 raymondville 5206.DO each 1 100615 16.19 29.26 22.35 29.29 0.000104 1,81 7752.40 3455.63 0,10 100117 raymondville reach 1 919.00 16 10 24 BB 18 42 24 90 0.000135 1.51 609.07 89.10 0.10 raymondville reach 1 100117 1438.00 16.10 26.60 19.08 26.62 0.000125 1.42 1619.23 904.99 0.10 raymondy reach 1 100117 2061.00 16.10 27.53 19.79 27.55 0.000112 1.47 2613.78 1312 10 0.09 raymondville reach 1 100117 5206.00 16.10 22.45 29,19 29.23 0.000163 2.03 6854.67 4241.21 0.12 raymondville reach 1 98117 919.00 15.78 24.60 24.64 0.000132 1.50 0.10 raymondville reach 1 98117 1436.00 15.78 26.48 26.49 0.000039 0,80 4617.88 3526.71 0.06 raymondville 0.000018 mach 1 98117 2061.00 15 78 27.47 27.47 0.60 8496.19 4395.42 0.04 raymondville reach 1 98117 5206.00 15.78 29.14 29.14 0.000019 0.70 16828.41 5486.63 0.04 96117 919.00 15.45 24.34 naymondville reach 1 24.38 0.000128 1.48 620.89 89.63 0.10 naymondville 96117 1436 00 15.45 reach 1 26.33 0.000138 26.35 1.33 1916.13 1991.27 0.10 raymondville 15.45 27.40 27.41 0.000067 reach 1 96117 2061.00 1.05 4738.73 3591.08 0.07 naymondville reach 1 96117 5206.00 15.45 29.08 29.09 0.000049 1.04 11910.45 5513.50 0.06

naymondville

reach 1

95341

919.00

15.32

24.26

24.29

0.000100

1.25

736.00

116.82

0.09

| River                        | Plan Pay - Res                              | River Sta    | Q Total            | Min Ch El    | W.S. Elev      | Crit W.S.    | E.G. Elev | E.G. Slope  | Vel Chnl    | Flow Area    | Top Width                             | Froude # Chi     |
|------------------------------|---|--------------|--------------------|--------------|----------------|--------------|-----------|-------------|-------------|--------------|---------------------------------------|------------------|
|                              | MANUFER DATES                               | 11.00        | (cfs)              | (ft)         | (ft)           | (ft)         | (ft)      | (ft/ft)     | (fVs)       | (sq ft)      | (ft)                                  | parker Partition |
| raymondville                 | reach 1                                     | 95341        | 1436.00            | 15.32        | 26.23          |              | 26.26     | 0.000107    | 1.32        | 1549.20      | 1399.62                               | 0.09             |
| raymondville                 | reacts 1                                    | 95341        | 2061.00            | 15.32        | 27.34          |              | 27.36     | 0.000076    | 1.23        | 3783.21      | 3274.52                               | 0.08             |
| raymondväle                  | reach 1                                     | 95341        | 5206.00            | 15.32        | 29.03          |              | 29.04     | 0.000060    | 1.25        | 11231.12     | 5638.90                               | 0.07             |
|                              | MASKARYA                                    |              |                    |              |                |              |           |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 94117        | 919.00             | 15.12        | 24.12          |              | 24.15     | 0.000122    | 1.46        | 630.30       | 90.05                                 |                  |
| rzymondville                 | reach 1                                     | 94117        | 1436.00            | 15.12        | 26.06          |              | 26.10     | 0.000163    | 1.62        | 1161.33      | 995.65                                |                  |
| reymondville                 | reach 1                                     | 94117        | 2061.00            | 15.12        | 27.21          |              | 27.24     | 0.000126    | 1.58        | 2608.87      | 2043.50                               |                  |
| raymondville                 | reach 1                                     | 94117        | 5206.00            | 15.12        | 28.92          |              | 28.94     | 0.000119    | 1.77        | 7567.25      | 3651.02                               | 0.10             |
|                              |   | 6.83466.633  |                    |              |                |              |           |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 92117        | 919.00             | 14.79        | 23.88          | 17.11        | 23.91     | 0,000118    | 1.44        | 638.71       | 90.42                                 |                  |
| raymondville                 | reach 1                                     | 92117        | 1438.00            | 14.79        | 25.71          | 17,77        | 25.75     | 0.000184    | 1.69        | 930.46       | 336,39                                |                  |
| raymondville                 | reach 1                                     | 92117        | 2061.00            | 14.79        | 26.89          | 18.48        | 26.93     | 0.000175    | 1.85        | 1567.94      | 685.65                                |                  |
| raymondville                 | reach 1                                     | 92117        | 5206.00            | 14.79        | 28.47          | 21.14        | 28.56     | 0.000335    | 2.90        | 3812.19      | 2093.85                               | 0.17             |
|                              | 4.00  |              |                    |              |                |              |           |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 90057        | 919.00             | 14.45        | 23.65          |              | 23.68     | 0.000113    | 1.42        | 648.07       | 90.83                                 |                  |
| raymondville                 | reach 1                                     | 90057        | 1436.00            | 14.45        | 25.30          |              | 25.35     | 0.000205    | 1.74        | 903.25       | 453.40                                | +                |
| raymondville                 | reach 1                                     | 90057        | 2061.00            | 14.45        | 26.56<br>28.10 |              | 26.60     |             | 1.68        | 2395,73      | 2084.02                               |                  |
| raymondville                 | reach 1                                     | 90057        | 5206.00            | 14.45        | 20.10          |              | 28.12     | 0.000136    | 1,02        | 7950.36      | 4843.02                               | 0.11             |
| raymondville                 | reach 1                                     | 90018        | 919.00             | 14.45        | 23.64          |              | 23.67     | 0.000113    | 1.42        | 647.66       | 90.81                                 | 0.09             |
| raymondville                 | reach 1                                     | 90018        | 1436.00            | 14.45        | 25.30          |              | 25.34     | 0.000206    | 1.75        | 899.51       | 451.78                                |                  |
| raymondville                 | reach 1                                     | 90018        | 2061.00            | 14,45        | 26.56          |              | 26.59     |             | 1.68        | 2380.49      | 2081.85                               |                  |
| raymondville                 | reach 1                                     | 90018        | 5206.00            | 14,45        | 28.09          |              | 28.12     |             | 1.83        | 7921.71      | 4842.45                               |                  |
| - Contraction                |   | APT TO SEE   | 5200.00            | 17,40        | 20.93          |              | 20.12     | 2.000107    |             |              | 1974.79                               |                  |
| raymondville                 | reach 1                                     | 88117        | 919.00             | 14.14        | 23.43          |              | 23.46     | 0.000109    | 1.40        | 656.76       | 91.21                                 | 0.09             |
| raymondville                 | reach 1                                     | 88117        | 1436.00            | 14.14        | 24.96          |              | 25.01     | 0.000150    | 1.79        | 800.85       | 97.33                                 |                  |
| raymondville                 | reach 1                                     | 88117        | 2061.00            | 14.14        | 26.24          |              | 26.29     | <del></del> | 1.79        |              | 4247.17                               |                  |
| raymondville                 | reach 1                                     | 88117        | 5206.00            | 14.14        | 27.93          |              | 27.94     |             | 1.32        | 10921.82     | 5809.10                               | +                |
|                              |   |              |                    |              |                |              |           |             | T           | T            |                                       |                  |
| raymondville                 | reach 1                                     | 86117        | 1389.00            | 13.81        | 23.04          |              | 23.11     | 0.000254    | 2.13        | 651.19       | 90.97                                 | 0.14             |
| raymondville                 | reach 1                                     | 86117        | 2200.00            | 13.81        | 24.37          |              | 24.50     | 0.000385    | 2.83        | 776.11       | 96.31                                 | 0.18             |
| raymondville                 | reach 1                                     | 88117        | 3169.00            | 13.81        | 25.72          | 18.54        | 25.79     | 0.000327    | 2.38        | 3159.39      | 3311.68                               | 0.16             |
| raymondville                 | reach 1                                     | 86117        | 7325.00            | 13.81        | 27.78          |              | 27.79     | 0.000078    | 1.39        | 13680.06     | 6000.00                               | 0.08             |
|                              |   |              |                    |              |                |              |           |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84790        | 1389.00            | 13.59        | 22.70          |              | 22.77     | 0.000264    | 2.15        | 645.62       | 91.84                                 |                  |
| raymondville                 | reach 1                                     | 84790        | 2200.00            | 13.59        | 23.83          |              | 23.96     | 0.000427    | 2.92        | 752.37       | 96.56                                 |                  |
| raymondville                 | reach 1                                     | 84790        | 3169.00            | 13.59        | 24.99          |              | 25.20     |             | 3.65        | 867.50       |                                       |                  |
| raymondville                 | reach 1                                     | 84790        | 7325.00            | 13,59        | 26.67          | 21,33        | 27.42     | 0.001836    | 6.98        | 1211.30      | 2097.03                               | 0.40             |
| 그 말이 바다 나를 다 하다.             | · 克格特克特斯 五百                                 |              |                    |              |                |              | <b></b>   | L           |             | 1            |                                       |                  |
| raymondyale                  | reach 1                                     | 84693.8*     | 1389.00            | 13,57        | 22.67          |              | 22.74     |             |             |              | 93.96                                 |                  |
| raymondville                 | reach 1                                     | 64693.8*     | 2200.00            | 13.57        | 23.78          |              | 23.91     | 0.000437    | 2.91        |              |                                       |                  |
| raymondville                 | reach 1                                     | 84693.8*     | 3169.00            | 13.57        | 24.93          | L            | 25.14     |             | 3.63        |              | 105.08                                |                  |
| raymondville                 | reach 1                                     | 84693,8*     | 7325.00            | 13.57        | 26.50          | 21.32        | 27.24     | 0.001883    | 6.93        | 1358.32      | 2818.57                               | 0.40             |
| 3 762 Tribus                 |   |              |                    |              |                |              |           |             | ļ           |              |                                       | <u> </u>         |
| raymondville                 | reach 1                                     | 84597.7*     | 1389.00            | 13.56        | 22.64          |              | 22.71     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84597.7*     | 2200.00            | 13.56        |                |              | 23.87     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84597.7*     | 3169.00            | 13.56        |                |              | 25.07     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84597.7*     | 7325.00            | 13.56        | 26.33          | 21.31        | 27.05     | 0.001943    | 6.87        | 1555.68      | 3507.09                               | 0.40             |
| and the second               | 172 W 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 | 84501.5*     | 1389.00            | 13.54        | 22.61          |              | 22.69     | 0.000281    | 2.16        | 642.34       | 95.38                                 | 0.15             |
| raymondville<br>raymondville | reach 1<br>reach 1                          | 84501.5*     | 2200.00            | 13.54        |                |              | 23.82     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84501.5*     | 3169.00            | 13.54        |                |              | 25.00     |             |             | <del></del>  |                                       |                  |
| raymondville                 | reach 1                                     | 84501.5*     | 7325.00            | 13.54        |                |              |           |             |             | <del>+</del> |                                       |                  |
| A COLOR                      |   |              | ,,,,,,,            |              |                | 21.5         |           |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84405.4*     | 1389.00            | 13.53        | 22.59          | İ            | 22.66     | 0.000278    | 2.18        | 637.84       | 92.7                                  | 4 0.15           |
| raymondville                 | reach 1                                     | 84405.4*     | 2200.00            | 13.53        |                |              | 23.78     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | B4405.4*     | 3169.00            | 13.53        |                |              | 24.93     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84405,4*     | 7325.00            | 13.53        |                |              | 26.62     |             |             | <del>+</del> | 4335.3                                |                  |
|                              |   | Let'A Se.    |                    |              |                |              |           |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84309.2*     | 1389.00            | 13.51        |                |              | 22.64     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84309,2*     | 2200.00            | 13.51        |                |              | 23.74     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84309.2*     | 3169.00            | 13,51        |                |              | 24.86     |             |             |              | · · · · · · · · · · · · · · · · · · · |                  |
| raymondville                 | reach 1                                     | 84309.2*     | 7325.00            | 13.51        | 26.17          |              | 26.43     | 0.001151    | 4.95        | 3877.77      | 4352.9                                | 0.3              |
| 1500 CHESSE                  |   | Hama Alla La | ļ                  | ļ            | ļ              | <u> </u>     |           | ļ           | <b> </b>    |              | ļ                                     | <u></u>          |
| raymondville                 | reach 1                                     | 84213.1*     | 1389.00            | 13.50        |                |              | 22.61     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84213.1"     | 2200.00            |              |                |              | 23.69     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84213.1*     | 3169.00            |              |                |              | 24.79     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84213.1*     | 7325.00            | 13.50        | 26.13          | ļ <u>.</u>   | 26.32     | 2 0.000953  | 4.39        | 4751.39      | 5477.1                                | 8 0.2            |
|                              |   | 1044         |                    | <del> </del> | <del> </del>   | -            |           |             | <del></del> |              |                                       | d                |
| raymondville                 | reach 1                                     | 84117        | 1389.00            |              |                |              | 22.58     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84117        | 2200.00            |              |                |              | 23.65     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84117        | 3169.00            |              |                |              | 24.72     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 84117        | 7325.00            | 13.48        | 26.10          | <del> </del> | 26.2      | 1 0.000721  | 3.7         | 5780.31      | 6000.0                                | 0.2              |
|                              | <del> </del>                                | 000477       | 4000.00            | <del> </del> |                | <del> </del> | 00.1      | 0.00000     | ,           |              |                                       | 4 0.1            |
| raymondville                 | reach 1                                     | 83617.*      | 1389.00            |              |                |              | 22.44     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 83617.*      | 2200.00            |              |                |              | 23.40     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 83617.*      | 3169.00<br>7325.00 |              |                |              | 24.30     |             |             |              |                                       |                  |
| raymondville                 | reach 1                                     | 83617.*      | 1325.00            | 13.41        | 25./1          | <del> </del> | 20.84     | 0.000/3     | 3.8         | J 3∠1∠.30    | **32.2                                |                  |
| I in the second              | reach 1                                     | 83117.*      | 1389.00            | 13,3         | 22.21          | <del> </del> | 22.2      | 8 0.00030   | 2.2         | 4 621.43     | 3 91.9                                | 7 0.1            |
| reymondville                 |   |              | 1.359 (8)          | 13,3         | 22.27          | 1            | J 22.2    | u.uuu301    | .2.2        | +, 0∠1.4√    | 1.9 שונ                               |                  |

Plan: Pay - PeyFy (Continued)
Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Stope Vel Chril Flow Area Top Width Frouds # Chl (cfs) (11) (11) (ft) (ft) (IVII) (Na) (sq ft) (11) raymondville 83117 3169.00 13.31 0.000929 893,50 0.26 83117. raymondville reach 1 7325.00 13.31 25.30 25.45 0.000795 4.07 4699.27 4406.91 0.26 raymondville mach 1 82617 1389 00 13 23 22.05 22.12 0.000358 2.08 800.46 511.85 0.16 raymondville reach 1 82617. 2200.00 13 23 22.70 22.80 0.000501 1177.52 2.66 651.70 0.19 raymondville reach 1 82617. 3169.00 13.23 23.26 23.39 0.000629 3 17 1695.69 1089.55 0.22 62617 7325.00 reymondville reach 1 13.23 24.99 25.10 0.000585 3.58 4631.19 2286.74 0.22 82117 1389.00 13.15 raymondville reach 1 21.94 21.98 0.000199 1.64 1280.67 649.04 0.12 raymondville 62117 2200.00 13.15 22.54 reach 1 1813.83 22.60 0.000294 2.14 1065.17 0.15 raymondville 82117 3169.00 13.15 reach.1 23.05 23.12 0.000384 2.57 2387.07 1340.93 0.17 nymondville reach 1 13.15 24.78 24.85 0.000394 3.03 5430.33 2275.64 0.18 raymondville reside 1 80117 1389 00 12.82 21.72 21.72 3409.97 0.98 3099.06 0.08 raymondville reach 1 80117 2200.00 12.82 22 32 22.32 0.000074 0.99 5554.88 4009.05 0.07 raymondville mach 1 60117 3169.00 12.82 22 85 22 85 0.000083 0.97 7706.90 4113 93 0.07 80117 raymondville reach 1 7325.00 12.82 24.64 24.64 0.000042 0.94 17143.74 5895.73 0.06 79415 1389.00 12.71 21.54 21.62 reach:1 0.000299 2.26 615.42 raymondville 89.35 0.15 raymondville reach 1 79415 2200.00 12.71 3.34 658.35 22.02 22.19 0.000618 91.28 0.22 гаутталиіуйю 79415 3169.00 12.71 reach t 22.38 22.71 0.001112 4.58 691.82 92.74 0.30 reach 1 79415 7325.00 12.71 22.85 20.46 24.39 0.004977 9.95 735.89 94.62 0.63 raymondville reach 1 78117 1389.00 12.50 21.39 21.40 0.000094 1.11 3473.96 4036 61 0.08 ravmondville reach 1 78117 2200.00 12.50 21.92 21.93 0.000074 1.04 5625.58 4088 78 0.07 78117 3169.00 raymondville reach t 12.50 22.37 22.38 0.000072 1.08 7654.53 4624.97 0.07 raymondville reach 1 76117 7325.00 12.50 14201.73 23.62 23.63 0.000073 1.23 5831.49 0.08 raymondville reach t 76117 1389.00 12.17 21.27 21.28 0.000048 0.80 4723.56 4196.91 0.06 raymondville 76117 2200.00 12.17 21.82 reach 1 21.82 0.000041 0.79 7040,78 4250.73 0.06 76117 3169.00 12.17 22.27 22 27 0.000044 9049 08 4688.31 0.85 0.06 raymondville reach 1 76117 7325.00 12.17 23,50 23 51 0.000056 1.07 15525,56 6000.00 0.07 74240 1389.00 11.86 4536.56 21.18 21.19 raymondville reach 1 0.000047 0.80 4233 45 0.08 74240 11.88 2200.00 21.75 raymondy reach 1 21.74 0.000041 0.79 6929.38 4302.53 0.06 raymondville 74240 3169.00 11.86 22.18 22.19 8924.07 4854.36 0.000044 0.86 0.06 raymondville 74240 7325.00 11.86 23.40 0.000058 15313.35 6000.00 reach 1 23.40 1.08 0.07 raymondville 74117 1389.00 11.84 21.18 21.18 0.80 4513.01 4232.70 reach 1 0.000048 0.06 raymondville 74117 2200.00 11.84 21.74 21.74 0.000041 0.80 6909.03 4301.89 reach 1 0.08 raymondville mach 1 74117 3169 00 11 84 22 18 22 tA 0.000045 0.87 8898 94 4853.66 0.08 raymondville mech 1 74117 7325.00 11.84 23.39 23.40 0.000056 1.09 15273.27 6000.00 0.07 1369.00 11.42 21.08 4528.95 4152.33 raymondy reach 1 21.08 0.000049 0.83 0.06 raymondville 71592 11.42 21.66 reach 1 2200.00 21.66 0.000041 0.80 6947.12 4209.20 0.06 raymondville 3169.00 11.42 22.09 22.10 0.000046 8814.56 4645.66 reach t 0.89 0.06 71592 raymondville reach 1 7325.00 11.42 23.28 23.28 0.000082 1.15 14736.38 6000.00 0.07 reach 1 69075 1537,00 11.D1 20.91 20 92 0.00008 1.08 3643.34 3353.93 0.08 and tille mach 1 69075 2345 00 11 D1 21.53 21.54 0.000058 0.96 6528 21 4920.14 0.07 raymondville reach 1 69075 3414.00 11.01 21.95 21.96 0.000059 1.02 8620.60 4972.86 0.07 raymondville reach 1 69075 8249.00 11.01 23.10 23.11 0.000074 1.26 15462.82 6000.00 0.08 1537.00 rzymondville 66802 10.64 20.68 20.70 1.19 3563.79 4277.09 reach 1 0.000100 0.09 raymondväle reach 1 2345.00 10.64 21.39 21.40 0.000055 6941.84 5142.22 0.06 06802 3414.00 10.64 21.82 21.82 9123.93 5183.33 each 1 0.000055 0.99 0.07 6802 8249.00 10.64 22.92 22 93 0.000074 1.26 15596.62 6000.00 raymondville each 1 0.08 1537.00 10.31 64802 20.39 20.42 1.63 2198.89 3887.01 raymondville reach 1 0.000196 0.12 64802 10.31 5988.83 5436.26 raymondvill reach 1 2345.00 21.28 21.27 0.000076 1.12 0.08 3414.00 10.31 21.58 21.69 0.000072 8291.39 5477.84 0.08 raymondy reach: 1 1.13 64802 8249.00 10.31 22.76 14531.18 raymondville reach: 1 22.75 0.000091 1.40 6000.00 0.09 1537.00 reach 1 62802 9.98 19.92 19.99 0.000237 2.15 716.48 93.80 0.14 rzymondville mach 1 52802 2345.00 9.98 21.10 21.11 0.000077 1.13 6284.31 6000.00 0.08 raymondville raymondville mach 1 82802 3414.00 9,98 21.54 21.55 0.000067 1 09 8912.84 6000 00 0.07 raymondville mach.1 62802 8249.00 9.98 22.58 22.58 0.000083 1.34 15109.03 6000.00 80.0 700.88 61180 1537.00 9.65 19.49 2.19 93.12 0.14 raymondville reach t 19.42 0.000252 raymondville reach 1 61160 2345.00 9.65 20.74 20.83 0.000302 2.58 1636.74 2299.88 0.16 61180 3414.00 9.65 21.17 21.25 0.000478 2903.17 3515.55 0.19 raymondvilk reach 1 2.75 raymondville reach.1 61160 8249.00 9.65 22.21 22.26 0.000418 2.84 8098.05 6000.00 0.18 nach 1 61130 1537.00 9.64 19 41 19.48 0.000252 2.19 700.61 93.11 0.14 mach 1 61130 2345 00 9.64 20.73 20 B2 0.000303 2.58 1621.20 2278 28 0.16 raymondville reach t 61130 3414.00 9.64 21.15 21.24 0.000493 2.79 2839.89 3480.26 0.19 9.64 7912.51 6000.00 raymondville reach 1 61130 8249.00 22.18 22.23 0.000441 2.91 0.19 raymondville 60777 1537.00 9.58 19.32 19.39 0.000255 2.20 697.83 93.00 0.14 reach 1 reach 1 60777 2345.00 9.58 20.72 20,74 0.000125 1.41 5090.23 6000.00 0.10 rzymondville 60777 9.58 7558.46 6000.00 reach 1 3414.00 21.13 21.14 0.000104 1.34 0.09

| River                        | Plan• Ray - Res<br>Reach | River Sta            | Q Total            | Min Ch El    | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Stope           | Vel Chril                               | Flow Area                             | Top Width  | Froude # Chi |
|------------------------------|--------------------------|----------------------|--------------------|--------------|----------------|--|----------------|----------------------|---|---------------------------------------|--|--------------|
|                              | Issued Allocat           |                      | (cfs)              | (ft) 0.50    | (ft)           | (ft)   | (ft)<br>20.44  | (ft/ft)              | (fVs)                                   | (sq ft)                               | (ft)<br>eass as                                  | 0.40         |
| raymondville                 | reach f                  | 60777                | 8249.00            | 9.58         | 22.13          |  | 22.14          | 0.000116             | 1.55                                    | 13564.91                              | 6000,00  | 0.10         |
| naymondville                 | reach 1                  | 58786                | 1537.00            | 9.26         | 18.78          | <del>                                     </del> | 18.86          | 0.000277             | 2.27                                    | 677.99                                | 92.14  | 0.15         |
| raymondville                 | reach 1                  | 58786                | 2345.00            | 9.26         | 20.23          |  | 20.31          | 0.000409             | 2.47                                    | 2182.93                               | 6000.00  | 0.18         |
| raymondville                 | reach 1                  | 58788                | 3414.00            | 9.26         | 20.85          |  | 20.87          | 0.000187             | 1.78                                    | 5871.70                               | . 6000.00  | 0.12         |
| raymondville                 | reach 1                  | 58786                | 8249.00            | 9.26         | 21.85          |  | 21.87          | 0.000168             | 1.85                                    | 11911.83                              | 6000,00  | 0.12         |
|                              |                          |                      |                    |              |                |  |                |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 56896                | 1537.00            | 8.92         | 18.17          |  | 18.25          | 0.000310             | 2.36                                    | 652.60                                | 91.03  | 0.16         |
| raymondville                 | reach 1                  | 58898                | 2345.00            | 8.92         | 19.24          |  | 19.39          | 0.000478<br>0.000814 | 3.12                                    | 752.54                                | 95.32<br>97.82                                   | 0.20<br>0.26 |
| raymondville                 | reach 1                  | 56696                | 3414.00<br>8249.00 | 8.92<br>8.92 | 19.86<br>21.26 | 13,86  | 20.14<br>21.31 | 0.000450             | 4.20<br>2.92                            | 812.79<br>8312.61                     | 6000.00  | 0.26         |
| raymondville                 | reach 1                  | 56696                | 0249.00            | 0.52         | 21.20          |  | 21.31          | 0.000400             | 2.52                                    | 6512.01                               | 5000.00  |              |
| raymondville                 | reach 1                  | 56644                | 1537.00            | 8.91         | 18.15          |  | 18.24          | 0.000310             | 2.36                                    | 652.02                                | 91.01  | 0.16         |
| raymondville                 | reach 1                  | 58644                | 2345.00            | 8.91         | 19.21          |  | 19.36          | 0.000481             | 3.12                                    | 751.05                                |  |              |
| naymondville                 | reach 1                  | 58644                | 3414.00            | 8.91         | 19.83          |  | 20.10          | 0.000821             | 4.21                                    | 810.37                                | 97.72  | 0.26         |
| raymondville                 | reach 1                  | 58644                | 8249.00            | 8.91         | 21.23          |  | 21.29          | 0.000475             | 2.99                                    | 8139,19                               | 6000.00  | 0.19         |
|                              | A75(0)                   |                      |                    |              |                |  |                |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 56166.2*             | 1537.00            | 8.83         | 18.00          |  | 18.08          | 0.000319             | 2.38                                    | 645.46                                | 90.71  | 0.16         |
| raymondville                 | reach:1                  | 56166.2*             | 2345.00            | 8.83         | 19.02          |  | 19.14          | 0.000415             | 2.88                                    | 1255.98                               |  | 0.18         |
| mymondville                  | reach 1                  | 56166.2*             | 3414.00            | 8.83         | 19.62          | <u> </u>   | 19.76          | 0.000507             | 3.29<br>2.70                            | 2003,04<br>8580,96                    | 1344.91  | 0.20         |
| raymondville                 | reach 1                  | 56166,2*             | 8249.00            | 8.83         | 21.04          | ·  | 21.08          | 0.000392             | 2.70                                    | 6560.96                               | 8000.00  | 0.10         |
| raymondville                 | nsach 1                  | 55688.5*             | 1537.00            | 8.75         | 17.92          | <del>                                     </del> | 17.96          | 0.000185             | 1.81                                    | 1557.05                               | 1001.07  | 0.12         |
| raymondville                 | reach 1                  | 55688.5              | 2345.00            | 8.75         | 18.98          |  | 19.01          | 0.000146             | 1.72                                    | 2826.62                               | 1316.87  | 0.11         |
| raymondville                 | reach 1                  | 55688.5*             | 3414.00            | 8.75         | 19.57          |  | 19.60          | 0.000175             | 1.94                                    | 3705.99                               | <del></del>                                      | 0.12         |
| raymondville                 | reach 1                  | 55688,5*             | 8249.00            | 8.75         | 20.90          |  | 20.93          | 0.000251             | 2.15                                    |                                       | <del>                                     </del> | 0.14         |
| A CONTRACTOR                 |                          | #1471.65s            |                    |              |                |  |                |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 55210.7*             | 1537.00            | 8.67         | 17.89          |  | 17.90          | 0.000057             | 1.01                                    |                                       |  |              |
| raymondville                 | reach 1                  | 55210.7*             | 2345.00            | 8.67         | 18.96          |  | 18.97          | 0.000049             | 1.00                                    | +                                     |  |              |
| raymondville                 | reach 1                  | 55210.7*             | 3414.00            | 8.67         | 19.54          |  | 19.55          | 0.000066             | 1,19                                    |                                       |  |              |
| raymondville                 | reach 1                  | 55210.7*             | 8249.00            | 8.67         | 20.82          |  | 20.83          | 0.000148             | 1.65                                    | 11055.10                              | 4720.42  | 0.11         |
|                              | Margaret N               | 16.0                 | 4007.00            |              | 47.70          | 44 33  | 47.00          | 0.000383             | 2.50                                    | 643.11                                | 90.61  | 0.17         |
| raymondville                 | reach 1                  | 54733                | 1607.00<br>2449.00 | 8.59<br>8.59 | 17.73          |  | 17.83<br>18.89 |                      | +                                       |                                       |  | <u> </u>     |
| raymondville                 | reach 1<br>reach 1       | 54733<br>54733       | 3564.00            | 8.59         |                |  |                | 4                    |   |                                       |  | 0.29         |
| raymondville<br>raymondville | reach f                  | 54733                | 8639.00            | 8.59         | 20.45          |  |                |                      | 4.83                                    |                                       |  | ·            |
| ayiioiayiio                  | 1.0134.27.2.1 (0.19)     | 1347                 | -                  |              |                | 111111   |                |                      | <u> </u>                                | <b>†</b>                              | İ  |              |
| raymondville                 | reach 1                  | 54238.*              | 1607.00            | 8.51         | 17.55          |  | 17.65          | 0.000373             | 2.53                                    | 637.57                                | 219.45   | 0.17         |
| raymondville                 | reach 1                  | 54238.*              | 2449.00            | 8.51         | 18.52          |  | 18.61          | 0.000503             | 2.63                                    | 1684.42                               | 1793.81  |              |
| raymondville                 | reach 1                  | 54238.*              | 3564.00            | 8.51         | 18.86          | 3  | 18.97          |                      | 3.12                                    |                                       |  |              |
| raymondville                 | reach 1                  | 54238.*              | 8639.00            | 8.51         | 20.01          | <u> </u>   | 20.12          | 0.000807             | 3.89                                    | 5183.66                               | 2905.98  | 0.25         |
|                              | Table Market             |                      |                    |              |                | ļ  |                | 0.000.00             | 4.50                                    |                                       | 4704.0   |              |
| raymondville                 | reach 1                  | 53743.*              | 1607.00            | 8.43         | 17.47          |  | 17.50          |                      |   |                                       | <del></del>                                      |              |
| raymondville                 | reach 1                  | 53743.*              | 2449.00<br>3564.00 | 8.43<br>8.43 | 18.47          |  | 18.48          |                      |   |                                       |  |              |
| raymondville<br>raymondville | reach 1                  | 53743.*              | 8639.00            | 8,43         |                |  | 19.86          | ·                    |   |                                       |  | ·            |
| Paymondone                   | (Cacil                   | 00140.               | 0035.00            | 0.40         | 13.0           | <del></del>                                      | 10.00          | 0.00002              | <del></del>                             | 1007                                  | 1  |              |
| raymondville                 | reach 1                  | 53248.*              | 1607.00            | 8.35         | 17.46          | 3  | 17.46          | 0.000039             | 0.77                                    | 4433.10                               | 2123.3   | 0.05         |
| raymondville                 | reach 1                  | 53248.*              | 2449.00            |              | 18.46          | 5  | 18.46          | 0.000030             | 0.75                                    | 6687.40                               | 2390.0   | 0.05         |
| mymondville                  | reach 1                  | 53248.*              | 3564.00            | 8.35         | 18.76          | 3  | 18.76          |                      | 1.00                                    |                                       |  |              |
| raymondville                 | reach 1                  | 53248.*              | 8639.00            | 8.35         | 19.74          | 4  | 19.76          | 0.000133             | 1.75                                    | 10101.9                               | 2909.8   | 0.11         |
|                              |                          |                      |                    | <u> </u>     | ļ              | <del></del>                                      |                | 1                    | 1                                       |                                       | ·  |              |
| raymondville                 | reach 1                  | 52753                | 1389.00            |              |                |  | 17.45          |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 52753<br>52753       | 2042.00<br>3102.00 |              |                |  | 18.45          |                      |   |                                       |  |              |
| raymondville<br>raymondville | reach 1                  | 52753                | 8058.00            |              |                |  | 19.73          |                      |   |                                       |  |              |
| 14 YELLER CIVING             | popular 1                | - JOE   GO           | 3030.00            | V.21         | <del></del>    | +  | 13.72          |                      | † · · · · · · · · · · · · · · · · · · · |                                       | 1  |              |
| raymondville                 | reach 1                  | 52344.3*             | 1389.00            | 8.20         | 17.4           | 3  | 17.44          | 0.000014             | 0.47                                    | 7 5900.59                             | 2330.2   |              |
| raymondville                 | reach 1                  | 52344.3*             | 2042.00            |              | 18.4           | 4  | 18.44          | 4 0.000012           | 0.4                                     |                                       |  |              |
| raymondville                 | reach 1                  | 52344.3*             | 3102.00            |              |                |  | 18.74          |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 52344.3*             | 8058.00            | 8.20         | 19.6           | 8  | 19.60          | 9 0.000072           | 2 1.30                                  | 11985.6                               | 7 3055.0   | 4 0.00       |
|                              |                          | 120000               | 1                  | ļ            | ļ              |  | <del> </del>   |                      |   | ,                                     |  |              |
| raymondville                 | reach 1                  | 51935.7*             | 1389.00            |              |                |  | 17.43          |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 51935.7°             | 2042.00<br>3102.00 |              |                |  | 18.4           |                      |   |                                       |  |              |
| raymondville<br>raymondville | reach 1                  | 51935.7°<br>51935.7° | 8058.00            |              |                |  | 19.6           |                      |   |                                       |  |              |
| ahrinarina                   | Jeach 1                  | 0.000.7              | - 5555.00          | 1            | 15.0           |  | 1              |                      | T                                       | 1                                     | 1  |              |
| raymondville                 | reach 1                  | 51527.1*             | 1389.00            | 8.0          | 7 17.4         | 1  | 17.4           | 1 0.00003            | 4 0.6                                   | 4 4180.6                              | 4 1899.7   |              |
| raymondville                 | reach 1                  | 51527.1*             | 2042.00            |              |                |  | 18.4           | 2 0.00002            | 4 0.6                                   | 0 6409.4                              | 0 2521.7   |              |
| raymondville                 | reach 1                  | 51527.1*             | 3102.00            | 8.0          |                |  | 18.7           |                      |   | · · · · · · · · · · · · · · · · · · · |  |              |
| raymondville                 | reach 1                  | 51527.1*             | 8058.00            | 8.0          | 7 19.5         | 8  | 19.5           | 9 0.00013            | 2 1.5                                   | 9 9677.6                              | 1 3105.4   | B 0.1        |
|                              |                          |                      | 1                  | 1            | 1              |  | 1              | <del></del>          |   |                                       |  |              |
| raymondville                 | reach 1                  | 51118.5*             | 1389.00            |              |                |  | 17.4           |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 51118.5*             | 2042.00            |              |                |  | 18.4           |                      |   |                                       |  | -            |
| raymondville                 | reach 1                  | 51118.5*             | 3102.00            |              |                |  | 18.6<br>19.5   |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 51118.5*             | 8058.00            | 8.0          | 19.5           | "  | 19.5           | 0.00017              | 1./                                     | , 6495.2                              | 3003.7   | 3.1          |
| raymondville                 | reach t                  | 50710                | 1389.00            | 7.9          | 3 17.2         | 9 10.8   | 6 17.3         | 6 0.00024            | 1 2.0                                   | 9 663.1                               | 7 91.4   | 9 0.1        |
| raymondville                 | reach 1                  | 50710                | 2042.0             |              |                |  |                |                      |   |                                       |  |              |
| raymondville                 | reach 1                  | 50710                | 3102.0             |              |                |  |                |                      |   |                                       |  | '4 0.2       |
| - Tribototing                | reach 1                  | 50710                | 8058.0             |              |                |  |                |                      | 8 1.9                                   |                                       |  | 5 0.1        |

HFC\_PAC\_Plan- Pay - PayEx (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chat Flow Area Top Width Froude # Chi River St (ft/s) (ft) (IVII) (sq ft) (cfs) (ft) (11) 50306.01 1389.00 10.79 17.26 0.000245 2.10 659 89 91 34 0.14 navmondville reach 1 5030B.C 2042.00 7.86 18.10 11.52 18 21 0.000374 2.74 744.57 94.98 0.17 raymondy reach 1 7 88 18 48 12.55 18 49 0.000048 1 00 6243.12 1929.48 0.06 50308.0 3102.00 raymondville reach 1 2133.42 0.12 50308.0\* 8058.00 7.86 19.37 16.05 19.39 0.000165 1.94 8060.28 reach 1 raymondville 0.14 17.15 0.000249 2.12 655.90 91.17 49906.0\* 7.80 17.08 10.73 1389.00 raymondville 0.000389 2.78 734.58 94.56 0.16 11.46 18.05 17.93 ech 1 49906.0" 2042.00 7.80 2000.30 0.06 7.80 18.46 12.49 18.47 0.000046 0.98 6401.11 mach 1 40006.0 3102.00 2237.10 0.12 19.30 15.99 19.32 8170.13 7.80 8058.00 raymondville each 1 49906.0\* 7.73 16.98 10.66 17.05 0.000253 2 13 652.64 91.03 0.14 49504.01 1389.00 raymondville reach 1 7.73 17.76 11 39 17.88 0.000403 2.82 725.35 94.18 0.18 raymondville 49604.0" 2042.00 reach 1 2056.54 0.06 3102.00 7.73 18 44 12 42 18.45 0.000042 0.94 6378.47 TE) MONOVE 2395.43 0.12 49504.0° raymondville 8058.00 7.73 19.23 15.92 19.25 0.000170 1.97 8326.69 2.14 648.78 90.87 0.14 16.94 0.000257 7.67 16 87 10.60 49102.0 1389.00 714.60 93.72 0.18 17.59 11.33 0.000421 2.86 2042.00 7.67 much 1 49102.0\* 2.49 raymondville 18.41 0.000295 2243.19 2159.30 0.15 3102.00 7.67 reach t 49102.0 7.67 19.17 15.86 19.16 0.000177 1.66 8510.38 2495.81 0,12 raymondville 8058.00 49102.0 each 1 90.72 0.14 2.15 645.45 48700 1389 00 7.60 16.77 10.53 16.84 0.000261 reach-1 raymondville 704.47 93.28 0.19 48700 2042.00 7.60 17.41 11.26 17.54 0.000438 2.90 raymondville reach f 95.41 0.26 4.11 754.53 raymondville 17.94 12.29 18.20 0.000831 48700 3102.00 7.60 nanh t 2509.33 0.11 7.60 19.10 15.79 19.11 0.00016 1.62 8697.90 reach 1 48700 8058.00 raymondville 48516.6 1389.00 7.57 16.72 10.50 16.79 0.000263 2 16 643.65 90.65 0.14 reach 1 raymondville 7,57 17.32 11.23 17.45 0.000448 2 92 699.09 93.06 0.19 48516.6 2042.00 raymondville reach 1 94.84 0.26 7.57 17 77 12.26 18 D4 0.000875 4.19 740.82 raymondville 3102.00 2564.52 0.11 48518.6\* 8058.00 7.57 19.07 15.76 19.08 0.000169 1.65 8716.28 reach:1 raymondville 16.74 0.000265 2.16 641.83 90.56 0.14 16.67 10.47 naymondville 1389.00 7.54 reach 1 48333.3" 693.69 92.82 0.19 7.54 17.37 0.000458 2.94 17.23 11.20 mach 1 48333.3\* 2042.00 17,86 17.58 12.23 0.000926 4.27 725.87 94.20 0.27 3102.00 aymondville 48333.3\* mach 1 48333.3\* 19.05 0.000174 1.72 8831.18 2920 44 0.12 7.54 19.04 15.73 raymondville 8058.00 reach 1 90,50 640,27 0.14 0.000267 2.17 48150 1389.00 7.51 16.62 10.44 16.69 reach 1 ravmondvilk 688.58 92.61 0.19 2042.00 7.51 17 15 11 17 17.28 0.000468 2.97 raymondville reach 1 48150 711,29 93.58 0.25 0.000984 17.69 4.36 rzymondville 48150 3102.00 7 51 17.39 12.20 1.73 9114,23 3191.97 0.12 0.000170 reymondville 48150 8058.00 7.51 19.00 15.70 19.02 16.56 0.000275 635 97 91 16 0.15 1389.00 7.43 16.49 10.36 47686. mach 1 17.01 0.000740 3.01 677.97 2256 47 0.23 raymondville 47686. 2042.00 7.43 11.09 reach 1 12.12 aymondville 3102.00 7.43 17.42 17 44 0.000152 1 45 4598.05 2379.26 0.11 reach t 18.89 875B.16 7.43 15.B2 18.91 0.000197 1.92 3503.67 0.13 47686. raymondville reach 1 1930.87 647.80 0.17 16.34 10.29 16.41 0.000387 2.14 reach 1 47222 1389.00 7.36 raymondville 2115.82 16.60 16.82 0.000164 1.47 3061.40 0.11 raymondville 47222. 2042 00 7 36 11.02 4274.78 2553.46 0.12 17.32 12.05 17.34 0.000177 1.62 raymondville 7.36 47222 · 3102.00 reach 1 18.77 16.21 0.000212 2.05 8668.43 3761.34 0.13 8058.00 reach t 47222. 10.21 16.30 0.000105 1.16 2288.68 1386.70 0.09 46758 1389.00 7.28 16.29 raymondville reach t 3015.51 1907.96 0.10 2042.00 7.28 16.73 10.94 16.75 0.000129 1.36 46758.\* raymondvilk reach:1 4110,73 2498.30 0.12 46758. 1.72 3102.00 7.28 17.21 11.97 17.24 0.000187 reach 1 raymondville 8767,12 0.13 18.67 0.000215 2.11 46758. 8058.00 7.28 18.65 16.02 raymondville reach 1 0.98 2760,85 1545.32 0.07 16.26 10.14 16.26 0.000068 1389.00 7.21 raymondville each 1 46294 16.70 0.000090 1.18 3465,82 1823.57 0.08 2042.00 7.21 16.69 10.87 mach 1 46294 17.14 11.90 17.18 0.000124 1.45 4439,16 2292.08 0.10 3102.00 7.21 raymondville reach 1 0.13 3764.98 aymondville 18.54 15.51 18.57 0.000210 2.14 8967.65 48294. 7.21 ach 1 0.06 0.78 3473.24 1848.93 10.06 16.24 0.000040 48830 1389.00 7.13 16.23 raymondville 0.07 0.97 4278,93 2002.48 10.79 16.68 0.000057 raymondville reach 1 45830 2042 00 7.13 16.65 2382.76 0.08 1.25 5212.33 raymondville 11.82 reach 1 45830 3102.00 7.13 17.10 9257.91 3723.57 0.13 15830 8058.00 7.13 18.45 reach 1 3457.63 1920.44 0.06 1389.00 7.06 16.21 9.99 16 22 0.000042 0.80 raymondville 45414. reach 1 0.07 4284.37 2053.02 45414. 2042.00 7.06 16.62 10,72 16.63 0.000059 0.99 raymondville reach 1 2291.45 0.08 45414. 3102.00 7.06 17.06 11.75 17.07 0.000086 1.25 5210.01 reach 1 raymondville 0.12 9545.69 8058.00 7.06 16.38 15.00 18.40 0.000180 2.03 45414. reach 1 raymondville 3471.05 2025.81 0.06 6.99 16.19 9.92 16.20 0.000046 0.84 raymondville reach 1 44998. 1389.00 raymondville 2042.00 6.99 16.59 10.65 16,60 0.000060 1.01 4306.56 2120.64 0.07 reach-1 44998. 3102.00 6.99 17.02 11.68 17.03 0.000104 1.38 5312 06 2774.30 0.09 44998 raymondville reach 1 18.31 15.00 18.33 0.000169 1.96 9891.27 4199.98 0.12 8058.00 6.99 raymondville 44996. reach 1 3491.25 2098.39 0.06 16.17 0.000047 0.85 44582 1389.00 6 93 16 16 9.86 reach 1 raymondville 2719.65 0.08 0.000073 1.11 4425.55 16.57 raymondville 44582.\* 2042 00 6.93 16.56 10.59 reach 1 2892.95 0.000095 1.31 5612.67 0.09 11.52 17.00 44582.\* 3102.00 6.93 16.98 raymondville 15.00 18.27 0.000157 1.89 10677.90 4439.19 0.11 18.25 raymondville 44582.\* 8058.00 6.93 reach 1

| River                  | Plan- Ray . R<br>Reach                  | River Sta  | Q Total | Min Ch El    | W.S. Elev      | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl     | Flow Area | Top Width | Froude # Chi |
|------------------------|---|--|---------|--------------|----------------|-----------|-----------|------------|--------------|-----------|-----------|--------------|
| - A                    |   |  | (cfs)   | (n)          | (n)            | (ft)      | (ft)      | (A/A)      | (fl/s)       | (8q ft)   | (n)       |              |
| mondville              | reach 1                                 | 44166.*  | 1389.00 | 6.86         | 16.13          | 9.79      | 16.14     | 0.000055   | 0.92         | 3637.36   | 2717.31   | 0.0          |
| mondville              | reach 1                                 | 44166.*  | 2042.00 | 6.86         | 16.53          | 10.52     | 16.54     | 0.000063   | 1.03         | 4741.62   | 2812.75   | 0.0          |
| mondville              | reach 1                                 | 44166.*  | 3102.00 | 6.86         | 16.95          | 11.55     | 16.96     | 0.000082   | 1.22         | 6101.03   | 3767.27   | 0.0          |
| mondville 🦪            | reach 1                                 | 44166.*  | 8058.00 | 6.86         | 18.21          | 15.00     | 18.22     | 0.000125   | 1.68         | 11533.27  | 4438.97   | 0.1          |
| ( A) ( E S) ( E        |   |  |         |              | 40.45          | 0.70      | 10 11     | 0.000045   | 0.84         | 4055.13   | 3414.79   | 0.0          |
| mondville              | reach 1                                 | 43750  | 1389.00 | 6.79         | 16.10          |           | 16.11     | 0.000045   | 0.93         | 5449.86   | 3614.98   | 0.0          |
| mondville              | reach 1                                 | 43750  | 2042.00 | 6.79         | 16.50          | 10.45     | 16.51     |            |              | 7007.31   | 3999.47   | 0.0          |
| mondville              | reach 1                                 | 43750  | 3102.00 | 6.79         | 16.91          | 11.48     | 16.92     | 0.000071   | 1.14<br>1.51 |           | 4439.00   | 0.0          |
| mondville              | reach 1                                 | 43750  | 8058.00 | 6.79         | 18.16          | 15.00     | 18.17     | 0.000100   | 1.51         | 12391.28  | 4439.00   | 0.0          |
|                        | 100000000000000000000000000000000000000 | 3/ 1907-126-741-Fi.  | 1777 00 |              | 40.07          |           | 16.08     | 0.000061   | 0.96         | 3545.10   | 3352.14   | 0.0          |
| mondville              | reach 1                                 | 43313.6*   | 1389.00 | 6.72<br>6.72 | 16.07<br>16.47 |           | 16,48     | 0.000068   | 1.06         | 4944.45   | 3813.77   | 0.0          |
| mondville              | reach 1                                 | 43313.6*   | 2042.00 |              | 16.87          |           | 16.88     | 0.000087   | 1.24         | 6516.55   | 3979.12   | 0.0          |
| mondville              | reach 1                                 | 43313.6*   | 3102.00 | 6.72<br>6.72 | 18.11          |           | 18.12     | 0.000007   | 1.59         | 11865.01  | 4447.89   | 0.1          |
| mondville              | reach 1                                 | 43313.6*   | 8058.00 | 6.72         | 10.11          |           | 10.12     | 0.000113   | 1.35         | 11005.01  | 1111.03   |              |
|                        |   | 42677.2*   | 1389,00 | 6.65         | 16.03          |           | 16.04     | 0.000086   | 1.13         | 3017.89   | 3374.61   | 0.0          |
| mondville              | reach 1                                 | 42877.2*   | 2042.00 | 6.65         | 16.43          |           | 16.44     | 0.000097   | 1.24         | 4450.23   | 3807.52   | 0.0          |
| mondville              | reach 1                                 | 42877.2*   | 3102.00 | 6.65         | 16.82          | -         | 16.84     | 0.000108   | 1,37         | 5987.51   | 3939.37   | 0.0          |
| mondville<br>mondville | reach 1                                 | 42877.2°   | 8058.00 | 6.65         | 18.06          |           | 18.07     | 0.000133   | 1.70         | 11304.20  | 4472.56   | 0.           |
| HONIGVINO              |   | 720112   | 6030.00 | 0.00         | 10.50          |           |           | 0.000.00   | - 1115       |           |           |              |
| mondville              | reach 1                                 | 42440.8*   | 1389.00 | 6.57         | 15.97          |           | 15.99     | 0.000131   | 1.36         | 2469.25   | 3248.75   | 0.           |
| mondville              | reach f                                 | 42440 B*   | 2042.00 | 6.57         | 16.37          |           | 16.39     | 0.000126   | 1.40         | 3928.25   | 3724.76   | 0.           |
| mondville              | reach 1                                 | 42440.8*   | 3102.00 | 6.57         | 16.76          |           | 16.78     | 0.000139   | 1.53         | 5412.44   | 3850,39   | 0.           |
| mondville              | reach 1                                 | 4244D.8*   | 8058.00 | 6.57         | 17.99          |           | 18.00     | 0.000159   | 1.82         | 10705.86  | 4526.03   | 0.           |
| HEATON ROS             |   | Se Negative Tox.   | 2003.00 | 5.51         |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 42004.4*   | 1389.00 | 6.50         | 15.89          |           | 15.92     | 0.000173   | 1.54         | 1929.31   | 2654.99   | 0.           |
| mondville              | reach 1                                 | 42004.4*   | 2042.00 | 6.50         | 16.30          |           | 16.33     |            | 1.61         | 3360.98   | 3698.17   | 0.           |
| mondville              | reach 1                                 | 42004.4*   | 3102.00 | 6.50         | 16.68          |           | 16.70     |            | 1.73         | 4781.90   | 3750.63   | 0.           |
| mondville              | reach 1                                 | 42004.4*   | 8058.00 | 6.50         | 17.91          |           | 17.93     |            | 2.04         | 10212.27  | 5432.52   | 0.           |
| O. C. C.               | 1 2 3 7 5 7 4 6                         |  |         |              |                |           |           |            |              |           |           |              |
| mandville              | reach 1                                 | 41568  | 1389,00 | 6.43         | 15.80          |           | 15.83     | 0.000222   | 1.70         | 1505.72   | 2018.32   | 0.           |
| mondville              | reach 1                                 | 41568  | 2042.00 | 6.43         | 16.19          |           | 18.24     | 0.000260   | 1.92         | 2664.69   | 3659.95   | 0.           |
| mondville              | reach 1                                 | 41568  | 3102.00 | 6.43         | 16.58          |           | 16.61     | 0.000265   | 2.02         | 4084.40   | 3721.72   | 0.           |
| nondville              | reach 1                                 | 41568  | 8058.00 | 6.43         | 17.82          |           | 17.84     | 0.000213   | 2.05         | 10596.10  | 6000.00   | 0.           |
| e personal             | elegity control                         | 2 44 07 FF AS  |         |              |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 39543  | 1389.00 | 6,10         | 15.62          |           | 15.62     | 0.000056   | 0.70         | 4961.19   | 5100.80   | 0.           |
| mondville              | reach 1                                 | 39543  | 2042.00 | 6.10         | 16.02          |           | 16.03     | 0.000051   | 0.71         | 7042.69   | 6000.00   | 0.           |
| mondville              | reach 1                                 | 39543  | 3102.00 | 6.10         | 16.39          |           | 16.40     | 0.000054   | 0.78         | 9253,44   | 6000.00   | 0.           |
| mondville              | reach 1                                 | 39543  | 8058.00 | 6.10         | 17.62          |           | 17.63     | 0.000061   | 0.96         | 16647.15  | 6000.00   | 0.           |
| 4000sta (              | 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |  |         |              |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 37135  | 1389.00 | 5.71         | 15.55          | 8.64      | 15.55     | 0.000017   | 0.48         | 6473.26   | 4752.20   | 0.           |
| mondville              | reach 1                                 | 37135  | 2042.00 | 5.71         | 15.95          | 9.37      | 15.95     | 0.000020   | 0.54         | 8456.77   | 5105.18   | 0.           |
| mondville              | reach 1                                 | 37135  | 3102.00 | 5.71         | 16.29          | 10.40     | 16.29     | 0.000031   | 0.70         | 10246.21  | 5378.87   | 0.           |
| mondville              | reach 1                                 | 37135  | 8058.00 | 5.71         | 17.49          | 13.90     | 17.49     | 0.000053   | 1.02         | 16872.48  | 5693.81   | 0.           |
| - 130 CV               | headown arrest                          | States and the state of the sta |         |              |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 34845  | 1715.00 | 5.33         | 15.40          |           | 15.44     | 0.000220   | 1.73         | 2515.09   |           | 0            |
| mondville              | reach 1                                 | 34845  | 2255.00 | 5.33         | 15.83          | 3         | 15.85     | 0.000135   | 1.42         | 4499.93   | 4727.52   | 0            |
| mondville              | reach 1                                 | 34845  | 2856.00 | 5.33         | 16.16          | 5         | 16.17     | 0.000108   | 1.32         | 6063.59   | 4856.38   | . 0          |
| mondville              | reach 1                                 | 34845  | 7246.00 | 5.33         | 17.31          |           | 17.32     | 0.000120   | 1.55         | 12164.18  | 6000.00   | 0            |
| 44144                  | NAMES OF STREET                         |  |         |              |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 34786  | 1715.00 | 5.32         | 15,38          | 3         | 15.43     |            | 1.81         | 2321.74   |           |              |
| mondvilie              | reach 1                                 | 34788  | 2255.00 | 5.32         | 15.82          | 2         | 15.84     |            |              |           |           |              |
| mondville              | reach 1                                 | 34786  | 2856.00 |              |                | 5         | 16.16     |            |              |           |           |              |
| mondville              | reach 1                                 | 34786  | 7246.00 | 5.32         | 17.30          | 0         | 17.32     | 0.000123   | 1.57         | 12011.09  | 6000.00   | 0            |
| 1944                   | ARCHAMANA.                              |  | 1       |              |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 32585  | 1715.00 |              |                |           | 14.74     |            |              |           |           |              |
| mondville              | reach 1                                 | 32585  | 2255.00 |              |                |           | 15.43     |            |              |           |           |              |
| mondville              | reach 1                                 | 32585  | 2856.00 |              |                |           | 15.8      |            |              |           |           |              |
| mondville              | reach 1                                 | 32585  | 7246.00 | 4.96         | 16.99          | 9         | 17.0      | 0.000157   | 1.79         | 10791.92  | 5488.22   | ·            |
| 4-11-12-12-12          |   | 1 1111111  |         |              |                |           |           |            |              |           |           |              |
| mondville              | reach 1                                 | 30564  | 1715.00 |              |                |           | 13.9      |            |              |           |           |              |
| mondville              | reach 1                                 | 30564  | 2255.00 |              |                |           | 14.7      |            |              |           |           |              |
| mondville              | reach 1                                 | 30564  | 2856.00 |              |                |           | 15.3      |            |              |           |           |              |
| mondville              | reach 1                                 | 30564  | 7246.00 | 4.63         | 16.5           | 4         | 16.5      | 7 0.000304 | 2.32         | 8895.56   | 6000.00   | <u> </u>     |
|                        |   |  |         | <u> </u>     |                |           |           |            |              |           |           | <del></del>  |
| mondville              | reach 1                                 | 29170  | 1715.00 |              |                |           | 13.3      |            |              |           |           |              |
| mondville              | reach 1                                 | 29170  | 2255.00 |              |                |           | 13.9      |            |              |           |           |              |
| mondville              | reach 1                                 | 29170  | 2856.00 |              |                |           | 14.5      |            |              |           |           |              |
| mondville              | reach 1                                 | 29170  | 7246.00 | 4.40         | 16.0           | 0         | 16.0      | 7 0.00061  | 3.24         | 6758.4    | 7 6000.00 | ) (          |
| William I              |   | 1 6 3 41   | 1       |              |                |           |           |            |              |           |           | .—-          |
| mondville              | reach 1                                 | 26867.7*   | 1715.0  |              |                |           | 13.1      |            |              |           |           |              |
| mondville              | reach 1                                 | 28867.7*   | 2255.0  |              |                |           | 13.7      |            |              |           |           |              |
| mondville              | reach 1                                 | 28867.7*   | 2856.0  |              |                |           | 14.2      |            |              |           |           |              |
| mondville              | reach 1                                 | 26867.7*   | 7245.0  | 0 4.3        | 5 15.8         | 0         | 15.8      | 9 0.00069  | 0 3.5        | 6270.1    | 5 6000.D  | <u> </u>     |
|                        |   |  |         |              |                |           | -         |            | -            |           |           | J            |
| mondville              | reach 1                                 | 28565.5*   | 1715.0  |              |                |           | 13.0      |            |              |           |           |              |
| mondville              | reach 1                                 | 28565.5*   | 2255.0  |              |                |           | 13.5      |            |              |           |           |              |
| mondville              | reach 1                                 | 28565.5*   | 2856.0  |              |                |           | 13.9      |            |              |           |           |              |
| mondville              | reach 1                                 | 28565.5*   | 7248.0  | 0 4.3        | 0 15.5         | 8         | 15.6      | 9 0.00074  | 0 3.7        | 5724.7    | 4 5785,4  | 3            |
|                        |   | 1 1 111  | 1       | 1            |                |           | 1         |            |              | 1         | 1         |              |

| River          | Reach                                    | River Ste | Q Total      | Min Ch El | W.S. Elev   | Crit W.S.   | E.G. Elev           | E.G. Slope  | Vel Chni | Flow Area | Top Width   | Froude # Chi   |
|----------------|--|-----------|--------------|-----------|-------------|-------------|---------------------|-------------|----------|-----------|-------------|----------------|
| Laria de la Ca |  |           | (cfs)        | (ft)      | (ft)        | (ft)        | (ft)                | (ft/ft)     | (fVs)    | (sq ft)   | (ft)        |                |
| mondville      | reach 1                                  | 28263.2°  | 2255.00      | 4.25      | 13.24       |             | 13.32               | 0.000525    | 2.57     | 1331.64   | 633.89      | 0,1            |
| mondville      | reach 1                                  | 26263.2°  | 2856.00      | 4.25      | 13.62       |             | 13.72               | 0.000606    | 2.87     | 1589.04   | 750.20      | D.2            |
| mondville      | reach 1                                  | 26263.2*  | 7248.00      | 4.25      | 15.38       |             | 15.48               | 0.000716    | 3.70     | 5478.45   | 5198.19     | 0.2            |
| 5 15 17 5      |  |           |              |           |             |             |                     |             |          |           |             |                |
| mondville      | reach 1                                  | 27961     | 1715.00      | 4.20      | 12.74       |             | 12.77               | 0.000235    | 1.70     | 1570.78   | 639.68      | 0.1            |
| mondville      | reach 1                                  | 27961     | 2255.00      | 4.20      | 13.16       |             | 13.20               | 0.0002901   | 1.98     | 1851.90   | 746.39      | 0.1            |
|                | reach 1                                  | 27961     | 2856.00      | 4.20      | 13.52       |             | 13.57               | 0.000338    | 2.21     | 2139.61   | 816.95      | 0.1            |
| ymondville     |  |           | 7246.00      | 4.20      | 15.18       |             | 15.28               | 0.000647    | 3.57     | 5464.53   | 4774.35     | 0.2            |
| ymondville     | reach 1                                  | 27961     | 7248.00      | 4.20      | 13.10       |             | 13.20               | 0.000047    |          | 0404.50   | 417 1.00    |                |
| 3-2009         | 28 to 1994 to 61                         |           |              |           | 10.00       |             | 12.67               | 0.000249    | 1.74     | 1578.12   | 724.59      | 0.1            |
| ymondville     | reach 1                                  | 27505.2*  | 1715.00      | 4.13      | 12.63       |             |                     |             | 1.98     | 1886.69   | 821.50      | 0.1            |
| ymondville     | reach:1                                  | 27505.2*  | 2255.00      | 4.13      | 13.03       |             | 13.07               | 0.000296    |          |           |             |                |
| - ellivbnom    | reach:1                                  | 27505.2*  | 2856.00      | 4.13      | 13.38       |             | 13.42               | 0.000337    | 2.19     | 2179.60   | 860.65      | 0.1            |
| ymondville     | reach 1                                  | 27505.2*  | 7246.00      | 4.13      | 14.90       | L           | 14.99               | 0.000636    | 3.49     | 5875.00   | 5098.29     | 0.2            |
|                | and the same                             |           |              |           |             |             |                     |             |          |           |             |                |
| ymondville     | reach 1                                  | 27049.4*  | 1715.00      | 4.05      | 12.52       |             | 12.56               | 0.000255    | 1.74     | 1619.83   | 824.93      | 0.             |
| ymondville     | reach 1                                  | 27049.4*  | 2255.00      | 4.05      | 12.90       |             | 12.94               | 0.000289    | 1.94     | 1946.59   | 884.49      | 0.             |
| mondville      | reach t                                  | 27049.4*  | 2856.00      | 4.05      | 13.23       |             | 13.28               | 0.000330    | 2.15     | 2300.04   | 1260.16     | 0.1            |
| ymondville     | reach f                                  | 27049.4*  | 7246.00      | 4.05      |             |             | 14.73               |             | 2.98     | 6884.71   | 5369.74     | 0.             |
| THE WALLAND    | 196 Philippins                           | 2000      | 12-0.00      | 4.03      | 14.01       |             | 11112               |             |          |           |             |                |
| 120 127 90     | Carrier A Control                        | 400032    | 4746.00      |           | 12.42       |             | 12.45               | 0.000234    | 1.66     | 1769.43   | 1096.95     | 0.             |
| ymondville     | reach 1                                  | 26593.6*  | 1715.00      | 3.98      |             | <del></del> | 12.82               |             | 1.82     | 2228.49   |             | <del></del>    |
| ymondville     | reach 1                                  | 26593.6*  | 2255.00      | 3.98      | 12.79       |             |                     |             | 2.06     | 2733.16   | 2183.10     |                |
| ymondville     | reach 1                                  | 26593.6*  | 2856.00      | 3.98      | 13.10       |             | 13.14               |             |          |           |             |                |
| ymondville     | reach.1                                  | 26593.6*  | 7246.00      | 3.98      | 14.53       |             | 14.56               | 0.000267    | 2.24     | 8693,89   | 3118.07     | <del>  "</del> |
| 77 (47)        |  | gan Maria |              |           | ļ           |             | <del> </del>        | ļ           | ļ        |           |             | <del> </del>   |
| ymondville     | reach 1                                  | 26137.8*  | 1715.00      |           |             |             | 12.36               |             | 1.48     | 2193.27   | 1558.82     |                |
| ymondville     | reach 1                                  | 26137.8*  | 2255.00      | 3.90      |             |             | 12.71               | <del></del> | 1.77     | 2932.80   | 3244.14     |                |
| prondville     | reach 1                                  | 26137.8*  | 2856.00      | 3.90      | 13.00       |             | 13.02               |             | 1.74     |           |             |                |
| rymondville    | reach 1                                  | 26137.8*  | 7246.00      |           |             |             | 14.47               | 0.000140    | 1.62     | 10862.09  | 4909.02     | 0.             |
| (2)            | ST 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | V         | 1            |           |             |             |                     | 1           |          |           | l           | 1              |
| symondville    | reach 1                                  | 25882     | 1715.00      | 3.83      | 12.28       | 1           | 12.30               | 0.000131    | 1.25     | 3537.46   | 4063.27     | 0.             |
| eymondville    | reach-1                                  | 25682     | 2255.00      |           |             |             | 12.64               |             | 1.17     | 4956.18   | 4115.05     | 0.             |
|                |  |           | 2856.00      |           |             |             | 12.96               |             | 1,13     |           | <del></del> |                |
| rymondville    | reach:1                                  | 25682     |              |           | <del></del> |             | 14.43               |             | 1.22     |           |             |                |
| ymondville     | reach 1                                  | 25682     | 7246.00      | 3.83      | 14.44       | 1           | 14.4                | 0.000070    | 7-4-8    | ,02,11.02 | 1000        | -              |
|                |  |           | <del> </del> |           |             |             | <del></del>         |             |          | 4047.24   | 4054.7      | 0.             |
| ymondville     | reach 1                                  | 25281.*   | 1715.00      |           |             |             | 12.26               |             |          |           |             |                |
| zymondville    | reach-1                                  | 25281.*   | 2255.00      |           |             |             | 12.61               |             | 1.05     |           |             |                |
| ymondville     | reach-1                                  | 25281.*   | 2856.00      | 3.76      |             |             | 12.93               |             | 1.08     |           |             |                |
| symondville    | reach 1                                  | 25281.*   | 7246.00      | 3.76      | 14.40       | 3           | 14.41               | 0.000074    | 1.20     | 14383.38  | 6000.00     | 0.             |
| -              | 1 1 1 1 1                                | 7.5       | 1            |           |             |             | T                   |             |          |           | L           |                |
| aymondville ·  | reach 1                                  | 24880.*   | 1715.00      | 3.70      | 12.22       | 2           | 12.22               | 0.000071    | 0.95     | 4655.09   | 3810.4      |                |
| symondville    | reach 1                                  | 24880.*   | 2255.00      |           |             |             | 12.5                | 0.000065    | 0.95     | 6081.35   | 4209.6      | 3 0            |
|                | reach 1                                  | 24880.*   | 2856.00      |           |             |             | 12.9                |             |          | 7572.73   | 4663.0      | 9 0            |
| zymondville    |  | 24880.*   | 7246.00      |           | +           |             | 14.31               |             |          | 15650.87  | 6000.0      | 0              |
| aymondville    | reach 1                                  | 24000     | 1240,00      | 3.71      | <del></del> | <del></del> | +                   | 1 5:000     |          |           |             |                |
| 1111111111111  | The Property of                          |           |              | 1         | +           |             | 12.20               | 0.000051    | 0.82     | 5342.30   | 3892.0      | 1 0            |
| aymondville    | reach 1                                  | 24479.*   | 1715.00      |           |             | +           |                     |             |          |           |             |                |
| aymondville    | reach 1                                  | 24479.*   | 2255.00      |           |             |             | 12.5                |             |          |           |             |                |
| aymondville    | reach 1                                  | 24479.*   | 2858.00      |           |             |             | 12.8                |             |          |           |             |                |
| aymondville    | reach 1                                  | 24479.*   | 7248.00      | 3.6       | 3 14.3      | 6           | 14.3                | 6 0.000046  | 0.9      | 16920.3   | 6000.0      | <u> </u>       |
|                |  | 7         |              |           | L           |             |                     |             | ļ        |           | 1           |                |
| symondville    | reach 1                                  | 24078."   | 1715.00      | 3.5       | 7 12.1      | 8           | 12.1                | 9 0.000037  |          |           |             |                |
| aymondville    | reach 1                                  | 24078.*   | 2255.00      | 3.5       | 7 12.5      | 4           | 12.5                | 4 0.000038  | 0.7      | 7758.8    |             |                |
| zymondville    | reach 1                                  | 24078.*   | 2856.00      |           | 7 12.8      | 7           | 12.8                | 7 0.00003   | 0.7      | 7 9425.2  | 7 5466.2    |                |
| aymondville    | reach-1                                  | 24078.*   | 7246.0       |           |             |             | 14.3                | 4 0.00003   | 7 0.8    | 8 18183.2 | 6000.0      | 0              |
|                | 7000712                                  | -TV1 3-   | , 240.0      |           | 1           | 1           |                     |             |          | T         |             |                |
|                |  |           | 47460        | 3.5       | 0 12.1      | 7           | 12,1                | 7 0.00002   | 7 0.6    | 7149.1    | 3 4883.5    | 8 0            |
| aymondville    | reach 1                                  | 23677     | 1715.0       |           |             | <del></del> | 12.5                |             |          |           |             |                |
| aymondville    | reach 1                                  | 23677     | 2255.0       |           |             |             | 12.8                |             |          |           |             |                |
| aymondville    | reach 1                                  | 23677     | 2856.0       |           |             |             | 14.3                |             |          |           |             |                |
| aymondville    | reach 1                                  | 23677     | 7248.0       | 0 3.5     | 0 14.3      | 4           | 14.3                | 0.0003      | V.0      | - 10770.0 | 3000.0      | <del>+</del> ` |
| - 311          | 4: 4:                                    |           |              |           | +           | _           | +                   | 2 00000     |          | 2 10242.9 | 3 6000.0    | 00 0           |
| zymondville    | reach 1                                  | 21660     | 1715.0       |           |             |             | 12.1                |             |          |           |             |                |
| raymondville   | reach 1                                  | 21660     | 2255,0       |           |             |             | 12.5                |             |          |           |             |                |
| raymondville   | reach 1                                  | 21660     | 2856.0       |           |             |             | 12.8                |             |          |           |             |                |
| raymondville   | reach 1                                  | 21660     | 7246.0       | 0 3.1     | 7 14.2      | 8           | 14.2                | 8 0.00001   | 8 0.6    | 0 23099.3 | 7 6000.0    | 00             |
|                |  |           | 1            |           |             |             |                     |             |          |           |             |                |
| rzymondville   | reach 1                                  | 19606     | 1715.0       | 0 2.8     | 12.1        | 1           | 12.1                |             |          |           |             |                |
| raymondville   | reach 1                                  | 19606     | 2255.0       |           |             |             | 12.4                |             | 2 0.4    | 3 12228.5 |             |                |
| raymondville   | reach 1                                  | 19606     | 2856.0       |           |             |             | 12.1                |             |          | 14140.0   | 6000        |                |
|                |  | 19606     | 7246.0       |           |             |             | 14.3                |             |          |           |             | 00             |
| zymondville    | reach 1                                  | 19000     | 1240.0       | ~         | ~  '-       | +           | <del></del>         | 1.22301     | +        |           | 1           |                |
|                |  | 40.77     | <del></del>  | nt        | 76          | <del></del> | 12.                 | 10 0.00001  | 4 0.4    | 5 9720.3  | 6000.       | 00             |
| raymondville   | reach 1                                  | 19152.2*  | 1715.0       |           |             |             |                     |             |          |           |             |                |
| raymondville   | reach 1                                  | 19152.2"  | 2255.0       |           |             |             | 12.                 |             |          |           |             |                |
| raymondviile   | reach 1                                  | 19152.2*  | 2856.0       |           |             |             | 12.                 |             |          |           |             |                |
| reymondville   | reach 1                                  | 19152.2*  | 7246.0       | 0 2.      | 75 14.      | 23          | 14.                 | 23 0.00001  | 9 0.6    | 3 22524.  | 12 6000.    | -              |
|                | A . 1 -                                  |           |              |           |             |             |                     |             |          |           |             |                |
| raymondville   | reach 1                                  | 18698.5*  | 1715.0       | 10 2.0    | 58 12.      | 08          | 12.                 |             |          |           |             |                |
| raymondviše    | reach 1                                  | 18698.5*  | 2255.0       |           | 68 12.      |             | 12.                 |             | 15 0.4   |           |             |                |
| raymondville   | reach 1                                  | 18696,5*  | 2856.0       |           |             |             | 12.                 |             | 15 0.    | 13547.    | 96 6000     | 00             |
|                |  | 18698.5*  | 7246.0       |           |             |             | 14.                 |             |          | 84 22218. | 6000        | 00             |
| raymondville   | reach 1                                  | 10080.0   | 7290,0       | ~         |             |             | <del>- 1 - 11</del> | -           | 1        |           |             |                |
|                |  |           |              |           | 61 12.      |             | <del></del>         | 0.0000      | 17 0.    | 49 9114.  | 87 600C     | 00             |
| raymondville   | reach 1                                  | 18244.7*  | 1715.0       |           |             |             |                     |             |          |           |             |                |

| River                                   | Plan · Pav · P      | River Sta   | Q-Total  | Min Ch El | W.S. Elev | Crit W.S.    | E.G. Elev | E.G. Slope | Vei Chni | Flow Area    | Top Width | Froude # Chl |
|---|---------------------|---|----------|-----------|-----------|--------------|-----------|------------|----------|--------------|-----------|--------------|
| NAME OF THE                             | MARKETER            | and the same  | (cfs)    | (ft)      | (#)       | (ft)         | (ft)      | (fvft)     | (fVs)    | (aq ft)      | (ft)      |              |
| mondville                               | reach 1             | 18244.7*  | 2856.00  | 2.61      | 12.76     | 12           | 12.76     | 0.000016   | 0.51     | 13242.88     | 6000.00   | 0.03         |
| eilivbram                               | reach 1             | 18244.7*  | 7246.00  | 2.61      | 14.20     |              | 14.20     | 0.000021   | 0.66     | 21902.07     | 6000.00   | 0.0          |
| NIESTE JE                               |                     |   |          |           |           |              |           |            |          |              |           |              |
| mondville                               | reach 1             | 17791.*   | 1715.00  | 2.53      | 12.05     |              | 12.06     | 0.000019   | 0.52     | 8817.04      | 6000.00   | 0.0          |
| mondville                               | reach 1             | 17791.1   | 2255.00  | 2.53      | 12.41     |              | 12.42     | 0.000017   | 0.52     | 10978.92     | 6000.00   | 0.04         |
| mondville                               | reach 1             | 17791.*   | 2856.00  | 2.53      | 12.74     |              | 12.74     | 0.000017   | 0.53     | 12947.63     | 6000.00   | 0.0          |
| ymondville                              | reach 1             | 17791.  | 7246.00  | 2.53      | 14.18     |              | 14.19     | 0.000022   | 0.68     | 21595.96     | 6000.00   | 0.0          |
|   |                     | a satura  |          |           |           |              |           |            |          |              | -         |              |
| ymondville                              | reach 1             | 17337.2*  | 1715.00  | 2.45      | 12.04     |              | 12.04     | 0.000021   | 0.55     | 8521.07      | 6000.00   | 0.04         |
| vmondviše                               | reach 1             | 17337.2*  | 2255.00  | 2.45      | 12.40     |              | 12.40     | 0.000019   | 0.54     | 10671.24     | 6000.00   | 0.0          |
| ymondville                              | reach t             | 17337.2*  | 2856.00  | 2.45      | 12.73     |              | 12,73     | 0.000018   | 0.55     | 12654.25     | 6000.00   | 0.0          |
| ymondville                              | reach 1             | 17337.2*  | 7246.00  | 2.45      | 14.17     |              | 14.17     | 0.000023   | 0.69     | 21291.72     | 6000.00   | 0.0          |
| ALL DE LOS SERVICES                     |                     | A 323 M 1   | 72.10.00 |           |           |              |           |            |          |              |           |              |
| William Communication                   | reach 1             | 16883.5*  | 1715.00  | 2.38      | 12.03     |              | 12.03     | 0.000024   | 0.58     | 8214.66      | 6000.00   | 0.0          |
| ymondville<br>ymondville                | reach 1             | 16883.5*  | 2255.00  | 2.38      |           |              | 12.38     | 0.000021   | 0.57     | 10353.11     | 6000.00   | 0.0          |
|   | reach 1             | 16883.5*  | 2856.00  | 2.38      |           |              | 12.72     | 0.000020   | 0.57     | 12350.42     | 6000.00   | 0.0          |
| ymondville                              |                     | 16883.5*  | 7246.00  | 2.38      |           |              | 14,16     | 0.000024   | 0.71     | 20977.03     | 6000.00   | 0.0          |
| ymondville                              | reach 1             | 10000.0   | 7240.00  | 2.00      | 14.13     | <u> </u>     | 14,10     | 0.00002    |          |              |           |              |
|   | 7.0                 | 4848479   | 1715.00  | 2.31      | 12.00     |              | 12.01     | 0.000027   | 0.62     | 7868.05      | 6000.00   | 0.0          |
| ymondville                              | reach 1             | 16429.7*  |          |           |           | <u> </u>     | 12.37     | 0.000021   | 0.60     | 10041.55     | 6000.00   | 0.0          |
| ymondville                              | reach 1             | 15429.7*  | 2255.00  | 2.31      |           | <del> </del> | 12.70     |            | 0.59     | 12053.16     | 6000.00   | 0.0          |
| rymondville                             | reach 1             | 16429.7*  | 2856.00  | 2.31      |           |              |           | 0.000025   | 0.73     | 20668.91     | 6000.00   | 0.0          |
| ymondville                              | reach 1             | 16429.7*  | 7246.00  | 2.31      | 14.14     |              | 14.14     | 0.000025   | 0.73     | 20000.91     | 0000.00   | 0.0          |
|   |                     |   | .=       |           | 1         |              | 44.00     | 0.00000    | 0.64     | 7527.11      | 5762.40   | 0,0          |
| rymondville                             | reach (             | 15976   | 1715.00  | 2.23      |           |              | 11,98     | 0.000029   |          | 9731.48      | 8000.00   | 0.0          |
| rymondville                             | reach 1             | 15976   | 2255.00  |           |           |              | 12.35     |            | 0.62     |              |           | 0.0          |
| symondville                             | reach 1             | 15976   | 2856.00  | 2.23      |           |              | 12.69     |            | 0.62     | 11757.39     | 6000.00   | 0.0          |
| rymondville                             | reach 1             | 15976   | 7248.00  | 2.23      | 14.12     |              | 14,12     | 0.000026   | 0.75     | 20362.28     | 8000.00   | 0.0          |
|   |                     | THE WALL STATE  |          |           |           |              |           |            |          | 4700 00      | EE00.0-   | 0,1          |
| iymondville                             | reach 1             | 15517.2*  | 1715.00  |           |           |              | 11.96     |            | 1.39     | 3708.43      | 5539.86   | 0.0          |
| rymondville                             | reach 1             | 15517.2*  | 2255.00  |           |           |              | 12.33     |            | 1.17     | 5882.29      | 5711.75   | 0.0          |
| symondville                             | reach 1             | 15517.2*  | 2856.00  |           |           |              | 12.67     |            | 1.08     | 7865.54      | 6000.00   |              |
| aymondville.                            | reach 1             | 15517.2*  | 7246.00  | 2.16      | 14.10     |              | 14.10     | 0.000050   | 1.05     | 16453.38     | 6000.00   | 0.0          |
|   |                     | fred the  |          | _         |           |              |           |            |          |              |           |              |
| rymondville                             | reach 1             | 15058.4*  | 1715.00  | 2.08      | 11.82     | !            | 11.87     |            | 1.92     | 1509.68      |           | 0.1          |
| ymondville                              | reach 1             | 15058.4*  | 2255.00  | 2.08      | 12.22     | 2            | 12.26     |            | 2.04     |              |           | 0.1          |
| ymondville                              | reach 1             | 15058.4*  | 2856.00  | 2.08      | 12.58     | 3            | 12.62     | 0.000238   | 2.00     |              |           | 0.1          |
| symondville                             | reach 1             | 15058.4"  | 7246,00  | 2.08      | 14.06     | 6            | 14.07     | 0.000112   | 1.57     | 12461.36     | 6000.00   | 0.1          |
|   | 1 (1) 2 (1)         | LEBONY LIN  |          |           |           |              |           |            |          |              |           |              |
| aymondville                             | reach 1             | 14599.6*  | 1715.00  | 2.01      | 11.68     | 3            | 11.74     | 0.000291   | 2.03     | 1233.59      | 763.75    | 0.1          |
| aymondville                             | reach 1             | 14599.6*  | 2255.00  |           | 1 12.05   | 5            | 12.12     | 0.000350   | 2.32     | 1559.95      | 1250.95   | D.1          |
| aymondville                             | reach 1             | 14599.6"  | 2856.00  |           |           |              | 12.4      |            | 2.55     | 2131.76      | 2029.68   | D.1          |
| aymondville                             | reach 1             | 14599.6*  | 7246.00  |           |           |              | 13.99     | 0.000303   | 2.57     | 8038.43      | 5863.88   | 0.1          |
| a yttavrica sac                         | 4 2 3 7 3 2 3 3 3 3 | 451 48457447  | 12.0.0   |           |           |              |           |            |          |              |           |              |
| aymondville                             | reach 1             | 14140.8*  | 1715.00  | 1.9       | 3 11.53   | 3            | 11.5      | 0.000322   | 2.12     | 1102.12      | 657.04    | 0.1          |
| aymondville                             | reach 1             | 14140.8*  | 2255.00  |           |           |              | 11.9      |            | 2.49     |              | 748.42    | 0,1          |
|   | reach 1             | 14140.8*  | 2856.00  |           |           |              | 12.2      |            |          |              | 795.65    | 0.2          |
| aymondville                             |                     | 14140.8*  | 7246.00  |           |           |              | 13.7      |            |          |              |           | 0.2          |
| aymondville                             | reach 1             | 14140.0   | 7240.00  | 1.3       | 13.0      |              | 10.1      | 0.000700   |          |              |           | 1            |
| 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 2004                | 13682   | 1715.00  | 1.8       | 6 11.3    | 7            | 11.4      | 4 0.000351 | 2.19     | 1008.3       | 5 528.33  | 0.1          |
| aymondville                             | reach 1             |   | 2255.00  |           |           |              | 11.7      |            |          |              |           |              |
| aymondville                             | reach 1             | 13682   |          |           |           |              | 12.0      |            | +        |              |           |              |
| aymondville                             | reach 1             | 13682   | 2856.00  |           |           |              | 13.2      |            |          |              |           |              |
| aymondville                             | reach 1             | 13682   | 7246.00  | 1.0       | 12.9      | ·            | 13.2      | 0.001570   | 3.4      | 2014.11      |           |              |
|   |                     | A 1 - |          |           | 400       | <del></del>  | 10.0      | 4 0.000178 | 1.53     | 3113.1       | 2 4476.87 | 0.           |
| aymondville                             | reach 1             | 11672   | 1715.00  |           |           |              | 10.9      |            |          |              |           |              |
| aymondville                             | reach 1             | 11672   | 2255.0   |           |           |              | 11.1      |            |          |              |           |              |
| aymondville                             | reach 1             | 11672   | 2856.00  |           |           |              | 11.4      |            |          |              |           |              |
| raymondville                            | reach 1             | 11672   | 7246,0   | 0 1.5     | 3 12.3    | <u> </u>     | 12.3      | 0.00020    | 1.8      | 3543.5       | 3302.30   | 1            |
| Hill before                             |                     | La La William   |          | 1         |           | -            | 1         | 1 000010   |          | 1820 7       | 9 3478.17 | 0.           |
| raymondville                            | reach 1             | 9870  | 1715.0   |           |           |              | 10.4      |            |          |              |           |              |
| aymondville                             | reach 1             | 9670  | 2255.0   |           |           |              | 10.7      |            |          |              |           |              |
| raymondville                            | reach 1             | 9670  | 2856.0   |           |           |              | 11.0      |            |          |              |           |              |
| raymondville                            | reach 1             | 9670  | 7246.0   | 0 1.2     | 0 11.8    | 3            | 11.8      | 5 0.00027  | 2.1      | 0 8850.3     | 4 5023.66 | 0.           |
| 54.1 PG                                 | 2 83/2              |   |          | 1         | -l        | <u> </u>     | -         | 1          |          | <del>-</del> |           |              |
| raymondville                            | reach 1             | 6234  | 1715.0   |           |           |              | 8.5       |            |          |              |           |              |
| raymondville                            | reach 1             | 6234  | 2255.0   |           |           |              | 9.1       |            |          |              |           |              |
| raymondville                            | reach 1             | 6234  | 2856.0   | 0.6       | 9.5       | 1 5.09       | 9.7       |            |          |              |           |              |
| aymondville                             | reach 1             | 6234  | 7246.0   | 0 0.6     | 10.8      | 13           | 10.8      | 6 0.00034  | 2 2.3    | 3 8769.4     | 6 6000.0  | 0.           |
| -                                       |                     |   | 1        |           |           |              |           |            |          |              |           | 1            |
| raymondville                            | reach 1             | 4339  | 1715.0   | 0 0.3     | 7.5       | 3.6          | 7.5       | 7 0.00031  |          |              |           |              |
| raymondville                            | reach 1             | 4339  | 2255.0   |           |           |              |           |            | 3 1.3    | 4 1677.5     |           |              |
| naymondville                            | reach 1             | 4339  | 2856.0   |           |           |              |           |            | 4 1.5    | 0 1906.6     |           |              |
| raymondville                            | reach 1             | 4339  | 7246.0   |           |           |              |           |            |          | 9 3034.3     | 7 810.0   | 1 0.         |
| - MALINA MARINE                         | TOGUL T             | 1.000   | 1 .270.0 | <u> </u>  | 1 33      |              | 1         |            |          |              | T         |              |
| on man 4 dile                           | reach 4             | 4300  | 1715.0   | ю о.:     | 30 7.5    | 3.6          | 7.5       | 0.00031    | 8 1.2    | 0 1434.9     | 7 590.0   | 9 0          |
| raymondville                            | reach 1             | 4300  | 2255.0   |           |           |              |           |            |          |              |           |              |
| raymondville                            | reach 1             |   |          |           |           |              |           |            |          |              |           |              |
| raymondville                            | reach 1             | 4300  | 2856.0   |           |           |              |           |            |          |              |           |              |
| raymondylle                             | reach 1             | 4300  | 7246.0   |           | 9.1       | 0.5          | 9,6       | 3.000/3    |          |              |           | +            |
| 77.6                                    |                     | 1 1, 141 1, 142<br>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |          |           | 20        | -            | 7.4       | 0.00037    | 2 1.2    | 8 1335.0     | 0 554.5   | 5 0          |
|   | reach 1             | 3878.00   | 1715.0   |           |           |              | -         |            |          |              |           |              |
| raymondville<br>raymondville            | reach 1             | 3878.00*  | 2255.0   | 0.3       | 23 7.     |              | 7.        |            |          |              |           |              |

| TIPO DAC | DI D       | D F /     | Continued) |
|----------|------------|-----------|------------|
| HH. WAN  | PION. ROV. | . PAVEV I | Continued  |

| River                    | Reach            | River Sta         | Q Total | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area | Top Width | Froude # Chi |
|--------------------------|------------------|-------------------|---------|-----------|-----------|-----------|-----------|------------|----------|-----------|-----------|--------------|
| - 20 2. Eggs             | execution in the |                   | (cfs)   | (ft)      | (n)       | (ft)      | (ft)      | (ft/ft)    | (ft/s)   | (sq ft)   | (ft)      |              |
| raymondville             | reach f          | 3878.00*          | 7246.00 | 0.23      | 9.46      |           | 9.55      | 0.000786   | 2.53     | 3646.25   | 2837.86   | 0.23         |
| 1.75 gr 19 19 6 s        | 14 (SQ) +        | 10000             |         |           |           |           |           |            |          |           |           |              |
| raymondville             | reach 1          | 3458.00*          | 1715.00 | 0.16      | 7.21      |           | 7.24      | 0.000420   | 1.41     | 1216.52   | 480.81    | 0.16         |
| raymondville             | reach:1          | 3456.00*          | 2255.00 | 0.18      | 7.52      |           | 7.56      | 0.000508   | 1.65     | 1382.76   | 648.58    | 0.1          |
| raymondville             | reach 1          | 3458.00*          | 2856.00 | 0.16      | 7.81      |           | 7.86      | 0.000614   | 1.87     | 1596.01   | 848.34    | 0.19         |
| raymondville             | reach 1          | 3456.00*          | 7246.00 | 0,16      | 9.17      |           | 9.24      | 0.000634   | 2.40     | 4601.89   | 2818.70   | 0.2          |
| Jan Mar V Samuel         | mada in the co   | 3 (3),200,000 (3) |         |           |           |           |           |            |          |           |           |              |
| raymondville             | reach 1          | 3034.00*          | 1715.00 | 0.09      | 6.99      |           | 7.03      | 0.000541   | 1.62     | 1144.89   | 919.34    | 0.18         |
| raymondville :           | reacti-1         | 3034.00*          | 2255.00 | 0.09      | 7.29      |           | 7.33      | 0.000570   | 1.78     | 1676.31   | 1901.23   | 0.19         |
| raymondville             | reach-1          | 3034.00*          | 2856.00 | 0.09      | 7.57      |           | 7.61      | 0.000551   | 1.87     | 2233.06   | 2008.81   | 0.19         |
| raymondville             | reach 1          | 3034.00*          | 7246,00 | 0.09      | 8.97      |           | 9.02      | 0.000425   | 2.10     | 5803.29   | 2859.11   | 0.17         |
| The Marie Commission of  | 美國 作的一点          | a Avistina        |         |           |           |           |           |            |          |           |           |              |
| raymondville             | reach f          | 2612.00°          | 1715.00 | 0.02      | 5.84      |           | 6.86      | 0.000308   | 1.41     | 2168.78   | 2204.51   | 0.14         |
| raymondville             | reach 1          | 2612.00°          | 2255.00 | 0.02      | 7.14      |           | 7.16      | 0.000284   | 1.44     | 2836.46   | 2238.20   | 0.14         |
| raymondville             | reacti 1         | 2612.00°          | 2856.00 | 0.02      | 7.43      |           | 7.45      | 0.000268   | 1.47     | 3497.74   | 2276.47   | 0.13         |
| raymondville             | reach 1          | 2612.00°          | 7246.00 | 0.02      | 8.85      |           | 8.87      | 0.000254   | 1.77     | 7204.54   | 2866.51   | 0.14         |
| allow, margaret          | 10 m             | was a second      |         |           |           |           |           |            |          |           |           |              |
| raymondville             | reach 1          | 2190              | 1715.00 | -0.05     | 6.78      |           | 6.79      | 0.000097   | 0.99     | 3638.05   | 2179.37   | 0.08         |
| raymondville             | reach 1          | 2190              | 2255.00 | -0.05     | 7.07      |           | 7.08      | 0.000113   | 1.12     | 4301.43   | 2443.72   | 0.09         |
| raymondville             | reach 1          | 2190              | 2856.00 | -0.05     | 7.37      |           | 7.38      | 0.000116   | 1.17     | 5023.68   | 2478.62   | 0.09         |
| raymondville             | reach 1          | 2190              | 7246.00 | -0.05     | 8.77      |           | 8.79      | 0.000157   | 1.61     | 8730.19   | 2912.33   | 0.1          |
| بهاركم والمعادية والمواد | en Korki         | 1 July 18         |         |           |           |           | _         |            |          |           |           |              |
| raymondville.            | reach 1          | 0                 | 1715.00 | -0.41     | 6.51      | 2.89      | 6.52      | 0.000160   | 1.18     | 3265.95   | 2522.08   | 0.10         |
| raymondville             | reach 1          | 0                 | 2255.00 | -0.41     | 6.78      | 3.47      | 6.79      | 0.000160   | 1.21     | 3950.09   | 2543.12   | 0.10         |
| nsymondville             | reach 1          | 0                 | 2856.00 | -0.41     | 7.08      | 4.04      | 7.09      | 0.000160   | 1.27     | 4758.18   | 3325.24   | 0.10         |
| raymondville             | reach 1          | 0 :               | 7246.00 | -0.41     | 8.43      | 6.14      | 8.44      | 0.000160   | 1.51     | 9360.06   | 3429,42   | 0.11         |

## **HEC-RAS MODEL**

PROPOSED CONDITIONS 10% DIVERSION

| River                        | Fleach      | River Sta               | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope                            | Vel Chril                             | Flow Area         | Top Width       | Froude # Chi |
|------------------------------|-------------|-------------------------|--------------------|----------------|----------------|----------------|----------------|---------------------------------------|---------------------------------------|-------------------|-----------------|--------------|
|                              |             |                         | (cfs)              | (N)            | (ft)           | (ff)           | (ft)           | (ft/ft)                               | (fVs)                                 | (sq ft)<br>354.04 | (ft)<br>66.58   | 0.16         |
| a Sal Vieja                  | Reach 1     | 15060                   | 743.00             | 24.30          | 30.94          | 26.42          | 31,01<br>33,52 | 0.000366                              | 2.10<br>2.40                          | 532.13            | 76.53           | 0.16         |
| a Sal Vieja                  | Reach 1     | 15060                   | 1278.00            | 24.30<br>24.30 | 33.43<br>35.70 | 27.29<br>28.11 | 35.81          | 0.000339                              | 2.62                                  | 716.20            | 85.61           | 0.16         |
| a Sal Vieja                  | Reach 1     | 15060<br>15060          | 1876.00<br>1182.00 | 24.30          | 39,31          | 27.15          | 39.33          | 0.000044                              | 1.12                                  | 1051.29           | 100.05          | 0,08         |
| La Sal Vieja                 | Reach 1     | 15000                   | 1102.00            | 24.50          |                | 27.10          | 05.00          | 0.000041                              |                                       |                   |                 |              |
| La Sal Vieja                 | Reach 1     | 15050                   | 743.00             | 24.30          | 30.94          | 26.42          | 31.01          | 0.000367                              | 2.10                                  | 353.67            | 66.55           | 0.16         |
| La Sal Vieja                 | Fleach 1    | 15050                   | 1278.00            | 24.30          | 33.43          | 27.29          | 33.52          | 0.000339                              | 2.40                                  | 531.77            | 76,51           | 0.16         |
| La Sal Vieja                 | Reach 1     | 15050                   | 1876.00            | 24.30          | 35.70          | 28.11          | 35.81          | 0.000318                              | 2.62                                  | 715.85            | 85.60           | 0.16         |
| La Sal Vieja                 | Reach 1     | 15050                   | 1182.00            | 24.30          | 39.31          | 27.15          | 39.33          | 0.000044                              | 1.12                                  | 1051.25           | 100.05          | 0.06         |
|                              |             |                         |                    |                |                |                |                |                                       |                                       |                   |                 |              |
| La Sal Vieja                 | Reach t     | 15010                   | 743.00             | 24.30          | 30.93          | 26.42          | 31,00          | 0.000368                              | 2.10                                  | 353.30            | 66.53           | 0.16         |
| La Sal Vieja                 | Reach 1     | 15010                   | 1278.00            | 24.30          | 33.42          | 27.29          | 33.51          | 0.000340                              | 2.40                                  | 531.41            | 76.49           | 0.16         |
| La Sai Vieja                 | Reach 1     | 15010                   | 1876.00            | 24.30          | 35.69          | 28.11          | 35.80          | 0,000318                              | 2.62                                  | 715.49<br>1051.20 | 85.58<br>100.05 | 0.16<br>0.06 |
| La Sai Vieja                 | Reach 1     | 15010                   | 1182.00            | 24.30          | 39.31          | 27.15          | 39.33          | 0.000044                              | 1.12                                  | 1051.20           | 100.05          | 0.00         |
|                              |             | (1) (4) (4) (4) (5) (5) |                    | 24.00          | 30.93          |                | 31.00          | 0.000369                              | 2.11                                  | 352.93            | 66.51           | 0.16         |
| La Sal Vieja                 | Fleech 1    | 15000                   | 743.00<br>1278.00  | 24.30<br>24.30 | 33.42          |                | 33.51          | 0.000341                              | 2.41                                  | 531.05            | 76.47           | 0.16         |
| La Sal Vieja                 | Reach 1     | 15000                   | 1876.00            | 24.30          | 35.69          |                | 35.80          | 0.000319                              | 2.62                                  | 715.13            | 85.56           | 0.16         |
| La Sal Vieja                 | Reach 1     | 15000<br>15000          | 1182.00            | 24.30          | 39.31          |                | 39.33          | 0.000044                              | 1.12                                  | 1051.16           | 100.05          | 0.06         |
| La Sal Vieja                 | Reach 1     | 15600                   | 1182.00            | 24.50          | 00.01          |                | 00.00          |                                       |                                       |                   |                 |              |
| La Sal Vieja                 | Reach 1     | 12500                   | 743.00             | 23.30          | 30.02          |                | 30.09          | 0.000351                              | 2.07                                  | 359.24            | 66.89           | 0.16         |
| La Sal Vieja                 | Reach 1     | 12500                   | 1278.00            | 23.30          | 32.59          |                | 32.68          | 0.000318                              | 2.35                                  | 544.41            | 77,17           | 0.16         |
| La Sal Vieja<br>La Sal Vieja | Reach 1     | 12500                   | 1876.00            | 23.30          | 34.92          |                | 35.02          | 0.000296                              | 2.55                                  |                   | 86.48           | 0.15         |
| La Sal Vieja                 | Reach 1     | 12500                   | 1182.00            | 23.30          | 39.22          |                | 39.24          | 0.000035                              | 1.03                                  | 1143.96           | 103.69          | 0.05         |
|                              |             |                         |                    |                |                |                |                |                                       |                                       |                   |                 |              |
| La Sal Vieja                 | Reach 1     | 9650                    | 743.00             | 22.16          | 29.08          |                | 29.14          | 0.000316                              |                                       |                   | 67.67           | 0.15         |
| La Sal Vieja                 | Reach 1     | 9850                    | 1278.00            | 22.16          | 31.74          |                | 31.82          | 0.000283                              | 2.25                                  |                   | 78.34           | 0.15         |
| La Sal Vieja                 | Reach 1     | 9650                    | 1876.00            | 22.16          | 34.13          |                | 34.22          | 0.000264                              |                                       |                   | 87.89           | 0.15         |
| La Sal Vieja                 | Reach 1     | 9650                    | 1182.00            | 22.16          | 39.15          |                | 39.16          | 0.000027                              | 0,94                                  | 1256.67           | 107.96          | 0.05         |
|                              | 101 200 000 |                         |                    |                |                | ļ              |                |                                       | ļ                                     |                   |                 | <del></del>  |
| La Sal Vieja                 | Reach 1     | 7500                    | 743.00             | 21.30          | 28,44          |                | 28.50          | 0.000282                              | 1.92                                  |                   | 68.56<br>79.48  |              |
| La Sal Vieja                 | Fleach 1    | 7500                    | 1278.00            | 21.30          | 31.17          |                | 31.24          | 0.000254                              | 2.17                                  |                   | 79.48<br>89.19  |              |
| La Sal Vieja                 | Reach 1     | 7500                    | 1876.00            | 21.30          | 33.60          |                | 33.68<br>39.10 | 0.000238                              |                                       |                   | 111.17          |              |
| La Sal Vieja                 | Reach 1     | 7500                    | 1182.00            | 21.30          | 39.09          | <u>'</u>       | 39.10          | 0.000022                              | 0.80                                  | 1344.61           | 111.17          | 0.04         |
|                              |             |                         | 743.00             | 19.94          | 27.61          |                | 27.65          | 0.000218                              | 1.75                                  | 424.22            | 70.67           | 0.13         |
| La Sal Vieja                 | Reach 1     | 4100                    | 1278.00            | 19.94          | 30.41          |                | 30.47          | 0.000204                              |                                       |                   | 81.87           | <del></del>  |
| La Sal Vieja                 | Reach 1     | 4100<br>4100            | 1876.00            | 19.94          | 32.87          |                | 32.95          | 0.000196                              | · · · · · · · · · · · · · · · · · · · |                   | 91.73           |              |
| La Sal Vieja                 | Reach 1     | 4100                    | 1182.00            | 19.94          | 39.03          |                | 39.04          | 0.000017                              |                                       |                   | 116.35          |              |
| La Sal Vieja                 | ribaciii    | 7100                    | 1102.00            |                |                |                |                |                                       | 1                                     |                   |                 |              |
| La Sal Vieja                 | Reach 1     | 1000                    | 743.00             | 18.70          | 27.04          | 20.82          | 27.08          | 0.000160                              | 1.57                                  | 472.57            | 73.35           | D.11         |
| La Sal Vieja                 | Reach 1     | 1000                    | 1278.00            | 18.70          | 29.86          |                | 29.91          | 0.000160                              | 1,84                                  | 695.32            | 84.63           | 0,11         |
| La Sal Vieja                 | Reach 1     | 1000                    | 1876,00            | 18.70          | 32.33          | 22.51          | 32.40          | 0.000160                              | 2.05                                  | 916.91            | 94.53           | 0.12         |
| La Sal Vieja                 | Reach 1     | 1000                    | 1182.00            | 18.70          | 39.00          | 21.55          | 39.00          | 0.00000                               | 7 0.58                                | 4567.38           | 1082.00         | 0.03         |
|                              |             |                         |                    |                |                |                |                |                                       | <u> </u>                              |                   |                 |              |
| raymondville                 | Reach 8     | 296300                  | 151.00             | 69.99          | 79.87          |                | 79.88          | 0.000075                              | <del></del>                           |                   |                 |              |
| raymondville                 | Reach 8     | 296300                  | 363.00             | 69.99          | 82.66          |                | 82.66          |                                       |                                       | <del></del>       | 3000.00         |              |
| raymondville                 | Reach 8     | 296300                  | 820.00             | 69.99          | 84.97          |                | 84.97          | 0.00000                               |                                       | ·                 |                 |              |
| raymondville                 | Reach 8     | 296300                  | 2458.00            | 69.99          | 88.33          | 3              | 88.33          | 0.00000                               | 0.13                                  | 25411.92          | 3000.0          | 0.01         |
|                              |             |                         | <u> </u>           |                |                |                |                | 0.00000                               | 5 0.71                                | 1 475.98          | 1336.7          | 9 0.10       |
| raymondville                 | Reach 8     | 295300                  | 151.00             | 69.94          | 79.80          |                | 79.81          | <del></del>                           | <del></del>                           | <del></del>       |                 | <del></del>  |
| raymondville                 | Reach B     | 295300                  | 363.00             | 69.94          | 82.66<br>84.96 | +              | 82.66<br>84.96 |                                       | · <del> </del>                        | <del></del>       |                 |              |
| raymondville                 | Reach B     | 295300                  | 820.00             | 69.94<br>69.94 | 88.32          |                | 88.32          | 0.00000                               |                                       |                   | 3000.0          |              |
| raymondville                 | Reach 8     | 295300                  | 2458.00            | 09,94          | 60.52          |                | 00.02          | 0.0000                                | · · · · · · · · · · · · · · · · · · · |                   |                 |              |
|                              | Daniel 0    | 293500                  | 151.00             | 69.85          | 79.62          | 2 73.48        | 79.64          | 0.00012                               | 4 1.0                                 | 5 143.20          | 29.3            | 1 0.00       |
| raymondville                 | Reach 8     | 293500                  | 363.00             | 69.85          |                |                |                |                                       |                                       | 8 244.72          | 38.3            | 2 0.10       |
| raymondville<br>raymondville | Reach 8     | 293500                  | 820.00             | 69.85          | <del></del>    |                |                |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 293500                  | 2458.00            | 69.85          |                |                |                |                                       |                                       | 4 15505.73        | 3000.0          | 0.00         |
|                              |             |                         | 1                  |                |                |                |                |                                       |                                       |                   | ļ               |              |
| raymondville                 | Reach 8     | 291800                  | 151.00             | 69.76          | 79.40          |                | 79.42          |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 291800                  | 363.00             | 69.76          |                |                | 82.39          |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 291800                  | 820.00             | 69.76          |                |                |                |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 291800                  | 2458.00            | 69,76          | 88.3           | 1 80.79        | 88.31          | 0.00000                               | 3 0.2                                 | 1 15688.13        | 3000.0          | 0.00         |
| The strain of a              |             |                         | 1                  |                | <b></b>        |                |                |                                       |                                       |                   |                 | <u></u>      |
| raymondville                 | Reach 8     | 289400                  | 151.00             |                |                |                | 79.08          |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 289400                  | 363.00             |                |                |                |                |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 269400                  | 820.00             |                | <del></del>    |                |                | · · · · · · · · · · · · · · · · · · · |                                       |                   |                 | <del></del>  |
| raymondville                 | Reach 8     | 289400                  | 2458.00            | 69.64          | 88.3           | 80.67          | 88.31          | 0.00000                               | v.2                                   | 10020.3           | 3000.0          |              |
|                              | 10-1-       | datent                  | 451.00             | 20 50          | 78.6           | 7 73.15        | 78.69          | 0.00017                               | 6 1.2                                 | 0 125.6           | 3 27.4          | 6 0,1        |
| raymondville                 | Reach 8     | 287000                  | 151.00<br>363.00   |                | +              |                |                |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 6     | 287000<br>287000        | 820.00             | <del></del>    |                | <del></del>    |                |                                       |                                       | <del></del>       |                 |              |
| raymondville                 | Reach 8     | 287000                  | 2458.00            |                | <del> </del>   |                |                |                                       |                                       | <del></del>       |                 |              |
| raymondville                 | Reach 8     | 20/000                  |                    | 03.00          |                | 1              | T              |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 285100                  | 151.00             | 69.43          | 78.3           | 1 73.06        | 78.3           | 0.00020                               | 7 1.2                                 | 8 118.1           | 9 26.6          | 3 0.1        |
| raymondville                 | Reach 8     | 285100                  | 363.00             |                |                |                | +              |                                       | 7 1.9                                 | 3 188.1           |                 |              |
| raymondville                 | Reach 8     | 285100                  | 820.00             |                |                |                | 82.9           | 5 0.00068                             |                                       |                   |                 |              |
| raymondville                 | Reach 8     | 285100                  | 2458.00            | <del></del>    |                |                | 86.4           | 2 0.00077                             | 4 3.7                                 | 8 1165.7          | 4 501.3         | 0.2          |
|                              |             |                         |                    |                |                |                |                |                                       |                                       | <u> </u>          |                 |              |
| raymondville                 | Reach 8     | 283500                  | 151.00             | 69.35          |                |                |                |                                       |                                       |                   |                 |              |
| raymondville                 | Reach 6     | 283500                  | 363.00             | 69.35          | 79.9           |                |                | <del></del>                           |                                       |                   |                 |              |
|                              | Reach 8     | 283500                  | 820.00             | 69.35          | 81.2           | 5 76.47        | 81.4           | 8 0.00128                             | 3.8                                   | 86 212.3          | 971.8           | 34 0.2       |

HEC DAS Plan: P 10 D 2 (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Stope Vel Chnl Flow Area Top Width Froude # Chil River Sta Q Total (fVs) (8q ft) (ft/ft) (cfa) (11) (ft) (ft) (N) 84.39 84.69 0.001581 4.73 759.61 1899.08 0.38 2458.00 60.38 raymondville Reach 8 283500 24.61 0.13 raymondville 151.00 69 26 77 AB 77.50 0.000315 1.50 100.97 261800 Reach 8 563.95 0.11 281800 363.00 69.26 79.52 79.54 0.000202 1.39 564.08 raymondville Reach 8 0.04 0.34 4849.73 3000.00 raymondville Beach 8 281800 820.00 69.26 81.33 81.33 0.000015 14608.52 3000.00 0.02 0.24 0.000004 raymondville ch B 281800 2458.00 69.26 84.58 84.58 1 83 82 93 22 31 0.17 76.60 72.80 76.65 0.000540 152.00 69.16 279700 raymondville Reach 8 78.91 0.000542 2.19 140.38 487.37 0.18 307.00 69.16 78.83 73.96 raymondville Reach 8 279700 1668.95 0.21 589.00 69.16 81.21 75.41 81.28 0.000404 1 79 357.51 Reach 8 raymondville 279700 2139.78 0.02 1876.00 69.16 84,57 79.10 84 57 0.000004 0.25 9983.56 raymondville 279700 Reach 8 1.84 82.77 22.28 0.17 74.32 70.53 0.000543 66.89 74.37 ach R 275500 152 00 28.94 0.18 2.20 139.55 76.61 0.000550 raymondville Reach 8 276500 307.00 66.89 76.54 71.69 225.73 79.16 73.14 79.26 2.61 36.80 0.19 589.00 66.89 raymondville Reach 8 275500 0.000904 4.17 450,25 51.98 0.25 68.89 84.22 76.61 84.48 1876.00 raymondville Fleech 6 275500 82.58 0.17 22.26 273500 152.00 65,81 73.23 73 28 0.000548 1.84 raymondville leech 8 138.75 28.88 0.18 raymondville 0.000558 2.21 278500 307.00 65 81 75.43 75.50 Reach 8 0.19 2.63 223.63 36.63 0.000576 Reach B 273500 589.00 65.81 78.02 78.13 nondville 0.001313 4.79 391,38 48.46 0.30 82.32 raymondville Reach B 273500 1876.00 65.81 81.96 22.21 0.17 72.57 72 63 0.000553 1.85 82.20 272300 152.00 65.17 raymondville Reach 8 28.76 0.18 307.00 65.17 74.76 74 84 0.000568 2.23 137,90 Reach 8 272300 raymondville 221.30 36.44 0.19 raymondville 272300 589 00 65.17 77.32 77.43 0.000592 2.66 43,65 0.39 317.53 raymondville 0.002293 5.91 272300 1876,00 65,17 79.72 80.26 Reach 8 1.87 81 28 22.09 0.17 64.09 71.45 67.73 71.51 152.00 raymondvilla Reach 8 270300 307.00 64.09 73.59 68.91 73.67 0.000595 2.27 135.47 28.51 0.18 raymondville Reach 8 270300 0.30 70.33 78 22 0.000616 2.60 226.12 97.30 Reach 8 589.00 64.09 76.11 270300 raymondville 0.14 1204.73 Reach 8 1876.00 64.09 79.03 74.01 79.06 0.000225 1.63 2125.46 raymondville 270300 78.24 21.67 0.18 1.94 0.000831 raymondville 52.90 68.54 70.18 Fleach A 268100 152.00 70.12 0.000669 2.37 129.65 27 89 0.19 raymondville 72.28 Reach 8 266100 307.00 62,90 72.20 67.72 0.000712 2.85 206.45 35.19 0.21 74.63 69.14 589.00 62.90 raymondville Reach 8 268100 0.002455 77.84 6.06 309.50 43.09 0.40 1876.00 62.90 77.28 72.82 268100 raymondville Reach 8 20.81 72.13 0.20 2.11 raymondville 205400 152.00 61.98 68 91 65 62 66.98 0.000783 Reach 8 562.73 0.21 120.00 raymondville Reach 6 266400 307.00 61.98 70.92 66.80 71.03 0.000823 2.58 0.23 191.32 1423.69 raymondville 0.000873 3.08 Reach 8 288400 589.00 61.98 73.27 68 22 73.42 0.17 1999.60 3000.00 0.000335 1.93 208400 1876.00 61.98 76.42 71.91 76.48 raymondville Reach 8 63.85 67.09 0.000889 2.19 69.37 20.40 0.21 152.00 60.21 67.01 raymondville Reach 8 264100 25.78 68.80 65.03 68 92 0.001017 2.77 110.81 0.24 Reach 6 264100 307.00 60.21 raymondville 32.22 0.26 reymondville Reach 6 264100 589.00 60.21 70.95 66.45 71.13 0.001140 3.40 173.07 1263.80 3000.00 0.31 0.000621 3.09 raymondville Reach 8 264100 1876.00 60.21 75.19 70.14 75.30 4.89 31.10 13 66 0.57 0.007388 Floanh A 282460 152.00 58.95 63,50 63.87 0.004327 4 77 64.39 19.65 0.48 58.95 65.50 65.85 raymondville 307.00 Reach 8 262450 0.46 67.94 0.003B71 5.38 109.43 25.62 262450 589.00 58.95 67.49 raymondville Reach 8 0.56 37.50 raymondville 262450 1876.00 58.95 71.45 72.45 0.005152 8.00 234.39 ich 8 49.77 0.15 173.08 1.56 raymondvilla Reach 8 280550 270.00 57.49 62.45 62.49 0.000349 62 10 0.15 64.56 0.000344 1.87 287.96 raymondville Reach 8 200550 539 00 57.49 64.51 66.54 2.19 420.85 73 83 0.16 0.000360 57.49 66,46 Reach 8 280550 923.00 raymondville 70.32 0.000397 2.82 750.70 97.00 0.18 raymondville 260550 2115.00 57.49 Reach 8 49,84 D.15 173.68 57.03 1.55 Reach 8 250250 270.00 62.00 62 04 0.000346 raymondville 62.21 0.15 1.66 289.18 raymondville Reach 8 259250 539,00 57.03 64.07 64.12 0.000340 2.20 420.39 73.79 0.18 66.07 raymondville Beach 8 250250 923.00 57.03 65.99 0.000361 745.01 98.64 0.18 69.93 0.000406 2.84 raymondville Reach 8 250250 2115.00 57.03 69.60 49.83 173.57 0.15 61.57 61.61 0.000346 1.58 258000 270.00 56.60 Reach 8 raymondville 62.24 0.15 289.53 raymondville Reach 8 258000 539.00 56.60 63.64 63.69 0.000339 1.86 0.18 73.64 418.55 raymondville 258000 923.00 56.60 65.54 65.62 0.000366 2.21 96.12 0.18 2.87 736.56 Reach 6 258000 2115.00 56.60 69.29 69.41 0.000418 0.000344 1.55 174.04 49.88 0.15 raymondville 255800 270.00 55.**83** 60.81 60.85 Reach 8 62.95 0.000335 1.85 290.99 62.39 0.15 539.00 55.83 62.89 255800 raymondville Reach 8 73.44 0.16 255800 923.00 55.83 64.74 64 81 0.000372 2.22 415.10 Reach 8 raymondville 94.99 0.19 718.59 Reach 8 255800 2115.00 55.B3 68.33 68.46 0.000447 2.94 raymondville 1.53 176.03 50 12 0.14 raymondville Reach 8 252200 270.00 54.57 59.**59** 59.63 0.000333 61.77 0.000318 1.82 296.46 62.91 0.15 Beach 8 252200 539.00 54.57 61,72 2.27 407.38 72.72 0.17 54.57 63.44 0.00039 raymondville 63.36 Reach 8 252200 923.00 0.21 54.57 66.54 66.69 0.000541 3.16 669.13 91.81 2115.00 raymondväle Reach 8 252200 50.40 0.14 178.32 1.51 270.00 53.92 58 99 59.02 0.000322 raymondville Reach 8 250350 63.37 0.14 1.79 301.25 raymondville 250350 539.00 53.92 61.15 61.20 0.000305 Reach 6 400.29 72.14 0.17 0.000413 2.31 raymondville 62.69 Reach 8 250350 923.00 53.92 62.61 3.37 627.29 89.04 0.22 65.60 0.000644 raymondville 53.92 Reach 8 250350 2115.00 65.43 50.73 0.14 181.14 248900 270.00 53.41 58.53 58.57 0.000308 1.49 raymondville Fleach 8

HEC.DAS Plan: P 10 D 2 (Continued)
River Reach Rever Sta Catolal Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chil (cfs) (ff) (ft) raymondville (ft) (11) (ft/ft) (ft/a) (8q ft) Reach 8 248900 (ft) ... 539.00 53.41 60.72 60.77 0.000291 1.76 ravmondville 0.14 Fleach 8 248900 923.00 53.41 61.99 0.000435 2.35 392.45 raymondville 71.47 Fleach 8 0.18 248900 2115.00 53.41 64 36 64.56 0.000802 3.66 578,32 85.66 0.25 raymondville Reach B 245400 270.00 52.19 57.55 57.58 0.000256 raymondville 193.60 52.18 0.13 Reach 8 245400 539.00 52,19 59.78 59.83 0.000248 324.78 raymondville 65.55 0.13 923.00 52.19 61.32 61,33 0.000119 1.27 1570.80 raymondville 1202.08 Reach 8 0.09 245400 2115.00 64.31 52.19 64.31 0.000018 0.58 6603.70 2092.90 0.04 raymondville Reach 8 242800 270.00 51.28 56.97 56.98 0.000203 1.28 210.77 54.13 0.11 raymondville Reach 8 242800 539.00 51.28 59.20 59.23 0.000209 1.56 346.32 67.51 0.12 raymondville Reach 8 242800 923.00 51.28 61.00 61,02 0.000124 1.34 1471.45 raymondville 1367.69 0.10 Reach 8 242800 2115.00 51.28 64.27 64.27 0.000013 0.50 7931.61 2207.97 0.03 raymondville Reach 8 240200 398.00 50.37 56.16 56.21 0.000411 1 84 216.23 54.72 raymondville Reach 8 0.16 803.00 50.37 58.31 53.49 58.39 0.000458 2.31 347.61 67.6 raymondville Fleach 8 240200 0.18 1359.00 50.37 60.22 60.34 0.000523 2.78 488.11 79.10 0.20 raymondville Fleach 8 240200 2996.00 50.37 63.92 64.12 0.000626 3.65 821.41 101.20 0.23 raymondville Reach 8 285900 398.0D 48.86 53.21 53.33 0.001264 2.76 143.97 46.12 raymondville 0.28 235900 803,00 48.86 53.30 53.76 147.81 0.004781 5.43 46.62 raymondville R ch 8 235900 0.54 1359.00 48.86 54 99 55.51 0.003800 5.77 235.34 56.77 0.50 raymondville Reach 8 235900 2996.00 48.86 57.89 58.60 0.003693 7.05 425.19 74.17 0.52 raymondville Reach 6 233900 398.00 48.16 50.85 50.88 0.001176 1.81 343.37 401 42 0.27 raymondville Fleach 8 233900 803 00 48.16 53.11 53.12 0.000080 0.80 563.00 raymondville Reach 8 673.68 0.07 233900 1359.00 48.16 55.11 55.12 0.000035 0.70 3151.80 raymondville 932.05 each B 0.05 233900 2996,00 48.16 58.26 58.27 0.000023 0.77 7474.52 0.05 raymondville Reach 8 231812 398.00 40.87 49.89 49 93 0.000208 1.57 253.15 46 10 0.12 raymondville Reach 8 231612 B03.00 40.87 52.76 52.82 0.000246 401.74 raymondville 2.00 57.57 0.13 Reach 8 231612 1359 00 40.87 54.93 54.97 0.000159 1.88 1289.01 617,77 raymondville Fleach 8 0.11 231612 2996.00 40.87 58.16 58,18 0.000076 3802.40 949.87 0.08 raymondville Reach B 227684 398.00 40.09 49.10 49.13 0.000199 1.55 257.36 46.60 0.12 raymondville Reach B 227684 803.00 40.09 51.78 51.84 0.000255 2.02 396.69 57.32 raymondville 0.14 Reach 8 227684 1359.00 40.09 53.99 54 09 0.000331 2.55 533.07 66.16 0.16 raymondville Reach 8 227684 2996.00 40.09 57.65 57.71 0.000205 2.48 2113.13 634.29 0.13 raymondville Reach 8 225004 398 00 39,55 48,55 48.58 0.000211 1.58 45.98 0.12 raymondville Reach 8 225004 803.00 39 55 51.05 51,12 2.12 0.000286 379.44 56.00 raymondville 0.14 Reach 8 225004 1359.00 39.55 53.00 53.12 0.000400 2.74 496 24 63.80 0.17 raymondville Reach 8 225004 2996.00 39.55 56.58 56.82 0.000611 3.93 879.34 460.99 0.22 raymondville Reach 8 222418 398.00 39.03 48.00 48.03 0.000214 250.41 45.86 0.12 raymondville Reach 8 222418 803.00 39.03 50.88 50.89 0.000037 0.87 2042.61 911.34 0.05 raymondville Reach 8 222418 1359.00 39.03 52.96 52.96 0.000017 0.69 4140.05 raymondville 1113.56 0.04 Reach 8 222418 2996.00 39.03 56 65 56.65 0.000012 0.72 9566.08 2071.08 0.03 raymondvilla Reach 8 220780 398.00 47.68 38.71 47.64 0.000218 1.60 248 76 45 71 0.12 raymondville Reach B 220780 803.00 38.71 50.70 50.76 0.000237 1.97 407.30 57.95 0.13 raymondville Reach 8 220780 1359.00 38.71 52.78 52.88 0.000325 2.53 536.23 66.25 0.16 raymondville Reach 8 220760 2996.00 56.34 56.56 0.00054 3.75 80.51 0.21 raymondville Reach 8 217688 398.00 38 09 46 96 47.00 0.000224 1.62 246 44 45.53 0.12 raymondville Reach A 803.00 217688 38.09 49.95 50.01 0.000248 2.00 400 51 57.49 0.13 raymondville Reach 8 217688 1359.00 38.09 51.68 51.79 2.69 505.84 64.40 0.17 raymondville Reach 8 217688 2996.00 54.21 54.50 0.000825 4.37 736.59 363.30 0.25 raymondville Reach 8 215481 398,00 37,65 46.45 46.49 0.000232 1 64 243.04 45.22 0.12 raymondville Reach 8 215481 803.00 37 65 49 38 49.45 0.00026 2.04 392 77 56.95 0.14 raymondville Reach P 215481 1359.00 37.65 50.94 0.000310 51.02 2.47 858 65 573.40 0.15 raymondville Reach 8 215481 2996.00 37.65 53.70 53.74 0.00016 2.17 2912.29 996.47 0.12 raymondville Reach 8 213503 398.00 37.25 46.00 46.05 0.000222 1.61 247.32 45.78 0.12 raymondville Reach 8 213503 803.00 37.25 48.87 48.94 0.000258 2.03 394.99 57.24 raymondville Fleach 8 0.14 213503 1359.00 37.25 50.40 50.46 0.000259 2.21 1042.43 563.24 0.14 raymondville Reach 8 213503 2996.00 37.25 53,45 0.000111 1.75 3224.66 876.14 0.10 raymondville Reach 8 211886 398.00 36.93 45.64 45 68 0.000234 1.64 242.55 45.28 0.12 raymondville Reach 8 211886 803.00 36.93 48.47 0.000242 48.52 1.96 580.82 574.71 0.13 raymondville Reach 8 211886 1359.00 36.93 50.21 50.22 0.000084 1.28 2447.28 1457.93 0.08 raymondville Reach 8 211886 2996 00 36.93 53.40 53.41 0.000019 0.76 8614.58 2275.61 0.04 raymondville Beach A 210380 398.00 36.63 45.28 45.32 0.000246 1.67 237.79 44.79 0.13 raymondville Reach 8 210380 803.00 36.63 48.05 48.12 0.000291 2.13 377.43 55.89 0.14 raymondville Reach 8 210380 1359.00 36.63 49.85 49.97 0.00042 2.81 484.22 63.07 0.18 raymondville Reach 6 210380 2996.00 36.63 53.01 53.29 0.000765 4.26 703.82 75.72 0.25 Reach 8 raymondville 210328 398,00 36 62 45.27 45,31 0.000247 1.67 237 67 44.78 0.13 raymondville Reach 8 210328 803.00 36.62 48.04 0.000291 2.13 377.14 55.87 0.14 raymondville Reach 8 210328 1359.00 36.62 49.83 49.95 0.000429 2.81 483.72 63.04 0.18 raymondville Reach 8 210328 2996.00 36.62 52.98 53.27 0.000769 4.27 702.31 75.64 0.25

HEC\_PAS\_Plan: P.10 D.2 (Continued)
River React River Sta 2 Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chini Flow Area Top Width Froude # Chl (cla) (ft) (ft) (ft) (ft) (fl/ft) (ft/s) (sq ft) (ft) Beach B 208056 398.00 36.16 44.69 44.73 0.000255 1.70 234.68 44.58 0.13 raymondville 47.43 Reach 6 803.00 36,16 47.36 0.000311 2.18 368.05 55.27 0.15 raymondville Reach 8 208058 1359.00 36.16 48.73 48.87 0.000527 3.04 447.72 60.78 0.20 raymondville Reach 8 208058 2996.00 36.16 50.51 50.95 0.001393 5.33 562.32 67.88 0.33 raymondville Reach 8 398.00 35.72 44.08 44.13 0.000286 177 225.02 43 64 0.14 raymondville Reach 8 205823 48.70 803.00 35.72 48.78 0.000286 2.07 558.69 397.47 0.14 205823 Reach 8 1359.00 raymondville 35.72 48.14 48.17 0.000193 1.92 1558.98 1435.61 0.12 205823 raymondville Reach 8 2996.00 50.40 50.41 0.00006 1.36 6633.91 3429.30 0.08 raymondville Reach 8 203593 398.00 35.27 43.39 43 44 0.000330 1.87 213.10 42.48 0.15 raymondville Reach 8 203593 803.00 35.27 45.91 46 00 0.000406 2.41 332.91 52.57 0.17 leach 8 1359.00 raymondy 35.27 47.25 47.43 0.000679 3.34 407.10 57.94 0.22 raymondville Reach 8 203503 2996.00 49.79 35.27 50.02 0.000835 4.26 1496.32 1680.40 0.25 rsymondville Reson 8 202962 398.00 35,14 43.18 43.23 0.000346 1.90 209,50 42.14 0.15 raymondville Reach 8 803.00 35.14 45.64 45.74 0.000431 2.47 52.01 0.17 raymondville Heach 8 202982 1359.00 35.14 46.78 48 97 0.000777 3.51 387.18 56.55 0.24 raymondvilk Reach 8 202962 2996.00 35.14 48.67 49.23 0.001889 5.97 501.69 64.14 0.38 raymondvilla Reach 8 200800 398.00 34.67 42.24 42.31 0.000448 40.28 2.09 190.34 0.17 raymondville Reach 8 803.00 34.67 44.84 44.90 0.000291 2.08 701.14 590,71 0.14 200800 raymondville Beach A 1359.00 34.67 46.37 46.38 0.000106 1.44 2277.65 1255.56 0.09 raymondville Reach 8 200600 2996.00 34.67 48.68 48.69 0.000054 1.21 5635.97 1693.28 0.07 raymondville Reach 8 200550 398.00 34.66 42.22 42.29 0.000450 2.09 189.98 40.25 0.17 raymondville Reach 8 200550 803.00 34,66 0.000293 44.83 44.89 2.09 695.72 588.89 0.14 raymondville 200550 1359.00 46.38 0.000106 1254.31 1.45 2270.37 0.09 Reach 8 200550 2998.00 48.68 0.000054 1.22 5631.86 1692.49 0.07 raymondville Reach 8 198245 398 00 34.20 40.83 40 93 0.000789 2.58 154.23 36.52 0.22 279.58 raymondville Reach 8 196245 803.00 34.20 43.79 43.91 0.000849 2.87 48 33 0.21 raymondvil 198245 Reach 8 1359.00 34.20 45.92 45.98 0.000305 2.40 1281,30 1047.00 0.15 raymondville Reach 8 198245 2996.00 34.20 48.52 48.53 0.000082 1.51 5042.91 1949.99 0.08 Flanch 8 196303 398.00 31.67 39.98 raymondvilk 40.03 0.000299 1.80 221.15 43.23 0.14 raymondville Reach 8 198303 803.00 31.67 42.98 43.06 0.000308 2.17 369.20 55.26 0.15 raymondville Reach 8 190303 1359.00 31.67 45.21 45.32 0.000385 2.70 527.11 233.38 0.17 raymondville Reach 8 198303 2996.00 31.67 48 23 48.29 0.000231 2.35 2605.89 1067.53 0.14 raymondville 194636 Reach 8 398.00 31.17 39.4B 39.53 0.000299 1.80 221.24 43.24 0.14 raymondville Reach 8 803.00 31.17 42.47 42.54 0.000310 2.18 55.19 368.34 0.15 aymondville 1359.00 Reach 8 194638 31.17 44.89 0.000380 637.20 2.66 435.55 0.17 Reach 8 31.17 47.96 47.99 194638 2996.00 0.000134 1.81 1324.90 0.10 raymondville Reach 8 193324 398.00 30.77 39.09 33.74 39.14 0.000297 1.80 221.63 43 28 0 14 raymondville 193324 Reach 8 803.00 30.77 42.06 35.13 42.14 0.000311 2.18 387.94 55.17 0.15 raymondville Reach 8 1359.00 30.77 44.03 36.52 44.15 0.000427 2.81 484.42 63.05 0.18 raymondville 193324 47.62 Fleach 8 2996.00 30.77 47.35 39.29 0.000733 715.24 4.19 76.30 0.24 raymondville ech R 192642 398.00 30.57 38.89 33.54 38.94 0.000298 1.80 221.51 43.27 0.14 naymondville Reach 6 192642 803.00 30.57 41.85 34.93 41.92 0.000313 2.19 367.23 55.12 0.15 raymondville Reach 8 192642 1359.00 30.57 43.73 36.32 43.86 0.000442 2 84 478.15 62.85 0.18 raymondvil Reach 8 192842 2996.00 30.57 46.80 39.09 47.09 0.000810 4.35 688.89 74.91 0.25 raymondville Reach 8 191137 398.00 30.12 38.44 38.49 0.000297 1.80 221.61 43.28 0.14 Reach A 191137 803.00 30.12 41.38 41.45 0.000315 2.19 365.95 55.02 0.15 raymondvále Reach 8 191137 1359.00 30.12 43.03 43.16 0.000484 2.94 462.31 61.63 0.19 raymondville Reach 6 191137 2996.00 30.12 45.30 45.67 0.001109 4 89 612.49 70.71 0.29 Reach 8 188680 raymondville 396.00 29.38 37.71 37.76 0.000296 1.79 222.11 43.32 0.14 raymondville Reach 8 803.00 29.38 40.75 40.80 1.86 443.23 0.000223 672.32 0.13 raymondville 188880 1359.00 Bearb 8 29.38 42.58 0.000121 1.53 1772.27 787.53 0.10 Reach 8 2996.00 29.38 45.10 45.11 0.000072 1.42 4331.84 1222.84 0.08 Reach 8 187150 raymondvill 398.00 28.92 37.26 37.31 0.000294 1.79 222,61 43.38 0.14 raymondville Reach 8 187150 803.00 28.92 40.33 0.000297 40.40 2.14 374.51 55.65 0.15 1359.00 raymondvilk Reach 8 187150 28.92 42.16 42.28 482.83 0.000431 52.96 2.81 0.18 raymondville Reach 8 187150 2996.00 28.92 44.51 44.82 0.000906 828.36 477.62 4.51 0.27 Reach 8 187100 398.00 28.91 37 25 37.30 0.000295 1.79 222 37 43.35 0.14 raymondville Reach 8 187100 803.00 28.91 40.31 40,39 0.000297 2.15 374.20 55.63 0.15 raymondville Reach 8 187100 1359.00 28.91 42.13 42.26 0.000432 2.82 482.07 62.91 0.18 raymondville Reach 6 187100 44.46 2996.00 28.91 44.77 0.000930 4.56 804.17 472.31 0.27 Reach 8 184550 398.00 28.14 36.50 38.55 0.000291 1.78 223.43 43.44 0.14 raymondvilk 803.00 Reach B 184550 28,14 39 57 39 64 0.000285 2.11 43A 3A 316.73 0.14 raymondville Reach 8 184560 1359.00 28.14 41.92 41.92 0.000053 1.09 3161.65 1735.52 0.06 184560 raymondville Reach 8 2996.00 28.14 44.51 44.52 0.000021 0.62 9007.74 2712.35 0.04 Reach 8 184500 36.54 43.42 raymondvilla 398.00 28.13 36.49 0.000292 1.78 223.21 0.14 raymondville 432.40 803.00 28.13 39.58 39.63 0.000287 2.11 308.57 0.14

| River  | Pian: PIAD<br>Reach  | River Sta  | Q Total   | Min Ch Ei  | W.S. Elev                             | Crit W.S.    | E.G. Elev               | E.G. Slope                                   | Vel Chril                            | Flow Area   | Top Width                                   | Froude # Chl                                   |
|--|--|--|---|--|---------------------------------------|--------------|-------------------------|--|--------------------------------------|---|---|--|
|  |  |  | (cfs)   | (h)  | ( <b>n</b> )                          | (ff)         | (ft)                    | (10/11)                                      | (fl/a)                               | (sq ft)   | (ft)  |  |
| raymondville   | Reach 8  | 164500   | 1359.00   | 28.13  | 41.91                                 |              | 41.92                   | 0.0000\$3                                    | 1.09                                 | 3156.97   | 1733.26                                     | 0.08   |
| raymondville   | Reach 9  | 184500   | 2996.00   | 28.13  | 44.51                                 |              | 44.51                   | 0.000021                                     | 0.82                                 | 9005.40   | 2711.84                                     | 0.04   |
|  |  |  |   |  |                                       |              |                         |  |                                      |   |   |  |
| raymondville   | Reach 8  | 183038   | 398.00  | 27.66  | 36.03                                 | 30.63        | 36.08                   | 0.000289                                     | 1.78                                 | 223.92  | 43.49                                       | 0.14   |
| naymondville   | Reach B  | 183033   | 803.00  | 27.66  | 39.10                                 | 32.02        | 39.18                   | 0.000293                                     | 2.13                                 | 376.40  | 55.78                                       | 0.14   |
| reymondville   | Reach 8  | 183033   | 1359,00   | 27.68  | 41.69                                 | 33.41        | 41.76                   | 0.000243                                     | 2.31                                 | 822.78  | 372.74                                      |  |
| raymondville   | Reach 8  | 183083   | 2996.00   | 27.66  | 44.37                                 | 36.18        | 44.43                   | 0.000210                                     | 2.56                                 | 2274.73   | 733.90                                      | 0.13   |
|  |  | 1.2.2  |   |  |                                       |              |                         |  |                                      |   |   |  |
| reymondville   | Reach 8  | 181219   | 398.00  | 27.11  | 35.51                                 |              | 35.\$6                  | 0.000285                                     | 1.77                                 | 225.25  | 43.62                                       | 0.14   |
| raymondville   | Reach 8  | 181219   | 803.00  | 27.11  | 38.58                                 |              | 38.65                   | 0.000290                                     | 2.13                                 | 377.68  | 55.87                                       | 0.14   |
| raymondville   | Reach 6  | 181219   | 1359.00   | 27.11  | 41.21                                 |              | 41.29                   | 0.000273                                     | 2.38                                 | 733.76  | 318.83                                      | 0.14   |
| raymondville   | Reach 8  | 181219   | 2996.00   | 27.11  | 44.00                                 |              | 44.06                   | 0.000197                                     | 2.44                                 | 2757.70   | 1223.53                                     | 0.13   |
| raymondville   | Reach 8  | 179129   | 398,00  | 26.49  | 34.92                                 | <del></del>  | 34.97                   | 0.000280                                     | 1.76                                 | 726 56  | 43.73                                       | 0.14   |
| raymondville   | Reach 8  | 179129   | 803.00  | 26.49  | 37.97                                 |              | 38.04                   | 0.000288                                     | 2.12                                 | 226.55<br>378.54                                      | 55.93                                       |  |
| raymondville   | Reach 8  | 179129   | 1359.00   | 26.49  | 40.80                                 |              | 40.84                   | 0.000168                                     |                                      | 1531.78   |   |  |
| raymondvilla   | Reach 8  | 179129   | 2996.00   | 26.49  | 43.93                                 |              | 43.93                   | 0.000025                                     | 0.89                                 | 8404.29   | 2661.75                                     |  |
| 10 J + 20 3  |  | \$ 50 Y 5 Y 5  |   |  |                                       |              |                         |  |                                      | 5.01.20   |   |  |
| raymondville   | Reach 8  | 178000   | 398.00  | 26.15  | 34.61                                 | 29,12        | 34.66                   | 0.000276                                     | 1.75                                 | 227.70  | 43.84                                       | 0.14   |
| raymondville   | Reach 8  | 178000   | 803.00  |  | 37,65                                 |              | 37.72                   | 0.000286                                     |                                      | 379.43  | 56.00                                       |  |
| raymondville   | Reach 8  | 178000   | 1359.00   | 26.15  | 40.50                                 |              | 40.59                   | <del></del>                                  | 2.44                                 | 573.42  | 174,53                                      |  |
| raymondville   | Fleach 8   | 178000   | 2996.00   | 26.15  | 43.78                                 | 34.67        | 43.86                   | 0.000231                                     | 2.73                                 | 2092.21   | 2230,46                                     | 0.14   |
|  |  |  |   |  |                                       |              |                         |  |                                      |   |   |  |
| raymondville   | Reach 6  | 177727   | 398.00  | 26.07  | 34,53                                 |              | 34.58                   | 0.000276                                     | 1.75                                 | 227.93  | 43.86                                       | 0.13   |
| raymondville   | Reach 8  | 177727   | 803.00  | 28.07  | 37.57                                 | 30.43        | 37.64                   | 0.000286                                     |                                      | 379.58  |   |  |
| raymondville   | Reach 8  | 177727   | 1359.00   | 28.07  | 40.42                                 |              | 40.52                   | 0.000288                                     |                                      | 568.23  |   |  |
| raymondville   | Reach 8  | 177727   | 2996.00   | 26.07  | 43.71                                 | 34.59        | 43.80                   | 0.000237                                     | 2.76                                 | 2044.13   | 2181.32                                     | 0.14   |
|  |  |  | <u> </u>  | ļ  |                                       | <u> </u>     |                         | <del> </del> _                               |                                      |   | ļ   |  |
| raymondville   | Reach 8  | 175705   | 398.00  |  | 33.99                                 |              | 34.03                   | +  | 1.73                                 | 230.65  | 44.10                                       |  |
| raymondville   | Reach 8  | 175705   | 803.00  | <del></del>  |                                       | <del></del>  | 37.07                   | <del></del>                                  | 2.10                                 |   | 56.15                                       |  |
| raymondville   | Reach 8  | 175705   | 1359.00<br>2996.00  | 25.46<br>25.46                                     | 39.63                                 | +            | 39.93                   | 0.000294                                     | <del></del>                          | 556.96  | 67.50                                       |  |
| raymondville   | Reach 8  | 175705   | 2996.00   | 23.46  | 43.23                                 | 33.96        | 43,31                   | 0.000242                                     | 2.70                                 | 2069.69   | 828.13                                      | 0,14   |
| raymondville   | Reach 8  | 175125   | 398.00  | 25.28  | 33.83                                 | 28.26        | 33.88                   | 0.000283                                     | 1.72                                 | 231.83  | 44.21                                       | 0.13   |
| raymondville   | Reach 8  | 175125   | 803.00  | 25.28  | 36.83                                 | <del></del>  | 36,90                   | ·  |                                      |   |   | <del></del>                                    |
| raymondville   | Reach 8  | 175125   | 1359.00   | 25.28  | 39.66                                 |              | 39.76                   |  | 2.44                                 | 557.63  |   | <del></del>                                    |
| raymondville   | Reach 8  | 175125   | 2996,00   |  | 43.07                                 |              | 43.16                   |  |                                      |   | 804.95                                      |  |
| taymona on a   | 1.0.00   |  |   |  |                                       |              |                         | 5.000,000                                    |                                      | 1000.04   | 504.50                                      | 0.13   |
| raymondville   | Reach 8  | 173765   | 398,00  | 24.88  | 33.48                                 |              | 33.52                   | 0.000257                                     | 1.70                                 | 233.94  | 44.41                                       | 0.13   |
| raymondville   | Reach 8  | 173765   | 803.00  | <del></del>  | 36.46                                 |              | 36.52                   | 0,000278                                     |                                      | <del></del>   | 56.31                                       | ·  |
| raymondville   | Reach 8  | 173765   | 1359.00   | 24.88  | 39.27                                 |              | 39.36                   | 0.000293                                     | 2.44                                 | 557.82  | 67.55                                       |  |
| raymondville   | Reach 8  | 173765   | 2996.00   | 24.88  | 42.64                                 |              | 42.77                   | 0.000329                                     | 3.16                                 | 1565.49   | 689.75                                      | 0.17   |
|  |  | 394.0  |   |  |                                       |              |                         |  |                                      |   |   |  |
| raymondville   | Reach 8  | 171741   | 398.00  |  | 32.97                                 |              | 33.02                   |  | 1.67                                 |   |   |  |
| raymondville   | Reach 8  | 171741   | 803.00  |  | 35.90                                 | <u> </u>     | 35,97                   | 0.000272                                     | 2.08                                 | ·   | 56.52                                       | 0.14   |
| raymondville   | Reach 8  | 171741   | 1359.00   | <del></del>  | 38.68                                 |              | 38.77                   | 0.000291                                     | 2.43                                 |   |   |  |
| raymondville   | Reach 8  | 171741   | 2996.00   | 24.27  | 42.21                                 |              | 42.27                   | 0.000181                                     | 2.33                                 | 2977.26   | 1586.37                                     | 0.12   |
| 110.00 C 00.0  |  |  |   | ļ  |                                       |              |                         |  |                                      |   |   |  |
| raymondville   | Reach 8  | 171891   | 398.00  |  |                                       |              | 33,01                   | 0.000243                                     |                                      |   |   |  |
| raymondville   | Reach 8  | 171691   | 803.00  |  | 35.69                                 |              | 35.95<br>38.75          |  | 2.07                                 | <del></del>   |   |  |
| raymondville<br>raymondville   | Reach 8  | 171691   | 1359.00   | <del></del>  | 38.66                                 |              | 42.26                   |  | 2.43                                 |   | <del></del> -                               |  |
| raymonuvine  | Detail   | 171001   | 2990.00   | 24.23  | 42.20                                 | <b></b>      | 42.20                   | 0.000103                                     | 2.34                                 | 2900.69   | 1303.28                                     | 0.14   |
| raymondville   | Reach 8  | 169710   | 398.00  | 23.66  | 32.49                                 |              | 32.54                   | 0.000229                                     | 1.63                                 | 244.42  | 45.34                                       | 0.13   |
| raymondville   | Reach 8  | 169710   | 803.00  | 23.66  | 35.36                                 |              | 35.42                   |  | 2.06                                 |   | <del> </del>                                |  |
| raymondville   | Reach 8  | 169710   | 1359.00   |  |                                       |              | 38.16                   |  |                                      |   |   |  |
| raymondville   | Fleach 8   | 189710   | 2996.00   |  |                                       |              | 41.94                   |  |                                      |   |   |  |
|  |  |  |   |  |                                       |              |                         | 1  |                                      |   |   |  |
| raymondville   | Reach 8  | 168304   | 1146.00   | 23.63  |                                       |              | 32.10                   | 0.000344                                     | 2.33                                 | 492.81  | 75.54                                       | 0.10   |
| raymondville   | Reach 8  | 168304   | 2137.00   |  |                                       |              | 34,90                   | 0.000418                                     | 2,99                                 | 715.43  | 86.53                                       | 0.18   |
| raymondville   | Reach 8  | 168304   | 3507.00   | <del></del>  |                                       |              | 37.57                   |  |                                      |   |   |  |
| raymondville   | Reach 8  | 168304   | 8107.00   | 23.63  | 41.52                                 | ·            | 41.62                   | 0.000288                                     | 3.28                                 | 7897.10   | 5924.42                                     | 0.10   |
| 1000   |  |  |   | ļ <u> </u>   |                                       |              |                         | <b></b>                                      |                                      | -   |   |  |
| raymondville   | Reach 8  | 187456   | 1146.00   |  | 31.70                                 |              | 31.79                   |  | f                                    |   |   |  |
| raymondville   | Reach 8  | 167456   | 2137.00   |  |                                       |              | 34.53                   |  | ***                                  |   | <del></del>                                 |  |
| raymondville   | Reach 8  | 167456   | 3507.00   |  |                                       | <del></del>  | 37.11                   |  |                                      |   |   |  |
| raymondville   | Reach 8  | 167456   | 8107.00   | 23.54  | 41.32                                 | <del>-</del> | 41.39                   | 0.000242                                     | 3.01                                 | 8450.40   | 5686.97                                     | 0.19   |
| raymondville   | Reach 8  | 168128   | 1146.00   | 23.41  | 31.13                                 | <del> </del> | 31.24                   | 0.000465                                     | 2.58                                 | 443.56  | 72.89                                       | 0.1  |
| raymondville   | Reach 8  | 186128   | 2137.00   |  |                                       |              | 33.85                   |  |                                      |   |   |  |
| raymondville   | Reach 8  | 166128   | 3507.00   |  |                                       |              | 36.27                   |  |                                      |   |   |  |
|  | Reach 8  | 168128   | 8107.00   |  |                                       |              | 41.02                   |  |                                      |   |   |  |
|  | ,  | 1  | 3101.00   | 20.41  | 75.5                                  | <del> </del> | 1                       |  | 2.40                                 |   | 2300.00                                     | J  |
| raymondville   | The second of the second                                       |  | 1146.00   | 23.40  | 31.11                                 |              | 31.21                   | 0.000468                                     | 2.59                                 | 442.54  | 72.83                                       | 0.1:   |
| raymondville   | Reach 6  | 166076   |   |  |                                       |              | 33.82                   |  | 3.34                                 |   |   |  |
| raymondville<br>raymondville   | Reach 8  |  | 2137.00   | 23.40  | 33.69                                 |              |                         |  |                                      |   |   |  |
| raymondville   |  | 166078<br>166078   |   | <del></del>  |                                       |              | 36.24                   | 0.000711                                     | 4.16                                 |   | <del></del>                                 |  |
| raymondville<br>raymondville<br>raymondville   | Reach 8  | 166078   | 2137.00   | 23.40  | 35.9                                  |              | 36.24<br>41.00          |  | 4.16                                 | 843.84  | 92.28                                       | 0.2  |
| raymondville<br>raymondville<br>raymondville<br>raymondville   | Reach 8<br>Reach 8   | 166078<br>166078   | 2137.00<br>3507.00  | 23.40  | 35.9                                  |              |                         |  | 4.16                                 | 843.84  | 92.28                                       | 0.2  |
| raymondville raymondville raymondville raymondville  | Reach 8<br>Reach 8   | 166078<br>166078   | 2137.00<br>3507.00  | 23.40<br>23.40<br>23.40<br>22.94                   | 35.93<br>40.88<br>30.91               | 3            | 41.00<br>30.93          | 0.000341                                     | 4.16<br>3.51                         | 843.84<br>7397.55<br>3 461.71                         | 92.28<br>6000.00<br>73.88                   | 0.2-<br>0.11<br>0.00                           |
| raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville | Reach 8<br>Reach 8<br>Reach 8<br>reach 2<br>reach 2            | 166078<br>166078<br>166078<br>166078<br>184919           | 2137.00<br>3507.00<br>8107.00<br>489.00<br>1010.00            | 23.40<br>23.40<br>22.94<br>22.94                   | 35.93<br>40.88<br>30.91<br>33.44      | 3            | 30.93<br>33.43          | 0.000341<br>0.000075<br>0.000118             | 4.16<br>3.51<br>1.06                 | 8 843.84<br>7397.55<br>8 461.71<br>657.74             | 92.26<br>6000.00<br>73.86<br>83.82          | 3 0.2-<br>0 0.11<br>3 0.00<br>2 0.11           |
| raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville                 | Reach 8<br>Reach 8<br>Reach 8<br>reach 2<br>reach 2<br>reach 2 | 166078<br>166078<br>166078<br>166078<br>164919<br>164919 | 2137.00<br>3507.00<br>8107.00<br>489.00<br>1010.00<br>1747.00 | 23.40<br>23.40<br>23.40<br>22.94<br>22.94<br>22.94 | 35.9<br>40.8<br>30.9<br>33.44<br>35.6 | 3            | 30.93<br>33.43<br>35.72 | 0.000341<br>0.000075<br>0.000118<br>0.000169 | 4.16<br>3.51<br>1.06<br>1.54<br>2.04 | 6 843.84<br>7397.55<br>8 461.71<br>657.74<br>1 857.76 | 92.26<br>6000.00<br>73.86<br>83.82<br>92.88 | 3 0.2-<br>0 0.11<br>3 0.00<br>2 0.11<br>3 0.11 |
| raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville | Reach 8<br>Reach 8<br>Reach 8<br>reach 2<br>reach 2            | 166078<br>166078<br>166078<br>166078<br>184919           | 2137.00<br>3507.00<br>8107.00<br>489.00<br>1010.00            | 23.40<br>23.40<br>23.40<br>22.94<br>22.94<br>22.94 | 35.9<br>40.8<br>30.9<br>33.44<br>35.6 | 3            | 30.93<br>33.43          | 0.000341<br>0.000075<br>0.000118<br>0.000169 | 4.16<br>3.51<br>1.06<br>1.54<br>2.04 | 6 843.84<br>7397.55<br>8 461.71<br>657.74<br>1 857.76 | 92.26<br>6000.00<br>73.86<br>83.82<br>92.88 | 3 0.2<br>0.1<br>3 0.0<br>2 0.1<br>3 0.1        |

HEC PAS Plan: P 10.0 ipd\ G Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chel Flow Area Top Width Froude # Chi **Fliver Sta** (ft/ft) (ft/a) (sq ft) (ft) (cfa) (ft) (ft) (11) 0.07 raymondville each 2 184431 480 00 30 R7 30.89 0.000075 1.06 462.67 73.92 0.10 raymondville 1.54 each 2 184431. 1010.00 22.89 33.34 33.37 0.000119 656.95 83.77 raymondville 35.64 0.000176 2.04 857.44 96.26 0.12 reach 2 164431. 1747.00 22.89 35.57 3.48 3757.67 0.19 40.33 0.000430 4822.41 raymondville reach 2 164431. 7752.00 22.89 40.21 163943 489.00 22.85 30.84 30.85 0.000075 1.08 463.07 73.96 0.07 raymondvilk 33.32 0.000119 1.54 655 62 83 74 0 10 raymondville 183943. 1010.00 22.85 33.28 reach 2 raymondville reach 2 163943. 1747.00 22.85 35.49 35.55 0.000175 2.05 850.81 93.80 0.12 raymondville 163943. 7752.00 22.85 40.05 40.13 0.000329 2.98 5757.09 4232.13 0.17 74.01 0.07 raymondville reach 2 63456 489.00 22.80 30.80 24.37 30.82 0.000074 1.05 464.03 25.30 33.28 0.000120 1.54 654.82 83.69 0.10 22.60 33.22 raymondville reach 2 163458 1010.00 608.84 0.12 163456 1747.00 22.80 35.40 26.35 0.000175 2.06 raymondville reach 2 raymondville 163456 7752.00 22.80 31.59 10.00 0.000190 2.18 8026.09 3644.38 0.13 reach 2 raymondville each 2 181457 489 00 22.59 30.66 30.68 0.000072 1.04 469.24 74.28 0.07 each 2 161457 1010 00 22 59 32.98 33.01 0.000121 1.55 651.91 83.54 0.10 raymondville 2.09 877.62 577.92 0.12 raymondville 35.10 0.000182 reach 2 161457 1747.00 22.59 35.03 39.88 0.000026 0.98 13638.36 0.05 raymondville reach 2 161457 7752.00 22.59 39.87 159438 489.00 22.38 30.52 30 54 0.000070 1 03 474.50 74.57 0.07 raymondville reach 2 raymondville reach 2 159438 1010.00 22.38 32.72 32.76 0.000123 1.56 648.38 83.37 0.10 raymondville 150438 1747 00 22 38 34 64 34.72 0.000194 2.14 815.89 91.06 0.13 reach 2 2.52 8286.16 5972.27 0.13 reach 2 159438 7752.00 22.38 39.72 39.76 0.000179 1.02 479.02 74 R1 0.07 157410 489.00 22.18 30.38 30.40 0.000068 raymondville reach 2 157410 1010.00 22.18 32.47 32.51 0.000125 1.57 644 01 83 16 0.10 raymondville reach 2 reach 2 157410 1747.00 22.18 34.23 34.31 0.000207 2.19 796.93 90.22 0.13 raymondville 7752.00 22.18 38,36 38.96 0.001217 6.22 1659.20 2062.66 0.33 each 2 157410 raymondville 22.17 30.37 30.39 0.000068 1.02 479.1B 0.07 each 2 157293 489.00 1.57 643.60 83.14 0.10 32.46 32.49 0.000126 1010.00 raymondville reach 2 157293. 22.17 2.20 22.17 34.21 34.28 0.000208 795 46 90.15 0.13 157293 1747.00 raymondville reach 2 7752.00 22.17 38.26 38.80 0.001268 6.08 1909.65 2464.65 0.33 raymondvilk 157293. reach 2 74.83 0.07 raymoridville reach 2 157176. 489.00 22.16 30.37 30.38 0.000068 1.02 479.30 63.13 0.10 raymondville reach 2 0.000126 1.57 643.22 157176 \* 1010.00 22.16 32.44 32.48 34.26 2.20 794.04 90.10 0.13 raymondville 34.1B 0.000209 reach 2 157176. 1747.00 22.18 38.63 0.001180 5.62 2395.55 2975.21 0.32 raymondville reach 2 157178.\* 7752.00 22,16 38.20 30.37 0.000067 1 02 480 23 74 87 0.07 489.00 22.14 30.36 157059. raymondville reach 2 22.14 32.43 32.48 0.000126 1.57 643.57 83.14 0.10 157059. 1010.00 reach 2 raymondville 1747.00 22 14 34 16 34.23 0.000214 2.20 793,80 91.66 0.13 raymondville reach 2 157059. eymondville 4772.01 0.27 reach 2 157059. 7752.00 22.14 38.19 38.47 0.000833 4.83 3543.21 1.02 74.88 0.07 30.37 0.000067 raymondville 22.13 30.35 reach 2 156942. 489.00 1.57 643.64 84.17 0.10 22.13 32.41 32.45 0.000127 1010.00 raymondville mach 2 156942 0.000215 2.19 798.03 93 14 0.13 22.13 34.13 34.20 1747.00 raymondville reach 2 38.34 0.000356 3.33 6241.62 6000.00 0.18 156942.\* 7752.00 22.13 38.25 raymondville reach 2 480.57 74.89 0.07 1.02 raymondvilla each 2 150825 489 DO 22.12 30.34 30.36 0.000067 642.78 83.10 0.10 1.57 32.40 32.43 0.000126 each 2 156625 1010.00 22.12 790.52 89.93 0.13 34.10 34.18 0.000212 2.21 raymondville 156825 1747.00 22.12 reach 2 8638.31 6000.00 0.12 22.12 38.26 38.30 0.000169 7752.00 raymondville 156826 reach 2 75.13 0.07 155106 489 OC 21.94 30.22 30.24 0.000066 1.01 485.15 raymondville 82.95 0.10 1.58 639.56 raymondville 155106 1010.00 21.94 32.18 32.22 0.000128 reach 2 772.67 89.14 0.14 raymondville 33.60 2.26 reach 2 155106 1747.00 21.94 33.72 0.000226 0.000516 4.06 4208.13 0.21 37.66 37.82 raymondville 21.94 reach 2 155106 7752.00 21.73 30.09 30.11 0.000083 1.00 491.07 75.45 0.07 153062 489.00 raymondville reach 2 21.73 1010.00 31.91 31.95 0.000131 1.59 635.02 82.73 0.10 raymondville 153062 reach 2 88.03 0.14 748.06 153082 1747 00 21.73 33.24 33.32 0.000247 2.34 raymondville reach 2 2350.51 0.14 5853.70 reach 2 153062 7752.00 21.73 37.10 37.15 0.000208 2.63 raymondville 0.99 494 91 75.65 0.07 21.59 30.00 30.02 0.000082 151635 489.00 raymondville reach 2 1010.00 21.59 31.72 31.76 0.000133 1.60 631.02 82.54 0.10 151635 raymondvilla reach 2 21.59 32.87 32 95 0.000266 240 727.82 87.10 0.15 151635 1747.00 raymondville reach 2 7752.00 21.59 36.56 36.71 0.000494 3.96 3771.67 1820.58 0.21 raymondville reach 2 151635 1.67 492.25 75.51 0.12 29.92 0.000177 21.50 29.88 reach 2 150792 821.00 raymondville 81.94 0,16 31.48 31.58 0.000317 2.45 618.73 raymondville 21.50 reach 2 150792 1518.00 32.58 0.000656 3,69 692.82 65.46 0.23 32.37 2558.00 raymondville reach 2 150792 36.15 0.000865 5.05 3894.41 3282.83 0.27 21.50 35.90 8565.00 raymondville reach 2 150792 494.78 75.65 0.10 0.000125 1.40 raymondville 149670 894 00 21.30 29 71 29.74 reach 2 1.96 612.25 81.62 0.13 reach 2 149670 1202.00 21.30 31.21 31.27 0.000205 raymondville 84.33 0.16 2.58 668.52 raymondville 31.88 31.99 0.000325 mench 2 149870 1714.00 21.30 896.87 94.55 0.33 34.44 34.90 0.001313 5.78 21.30 raymondville mach 2 149670 5186.00 0.10 49620 694.00 21.29 29.71 29.74 0.000125 1.40 495.06 75.66 reach 2 raymondville 81.62 0.13 21.29 31.19 31.25 0.000205 1.96 612.22 reach 2 149620 1202.00 raymondville 0.16 84.31 149620 1714.00 21.29 31.87 31.97 0.000326 2.57 687.97 raymondville

| River                                 | Plan: P. 10 F.<br>Reach   | River Sta        | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S. | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area | Top Width | Froude # Chi |
|---------------------------------------|---|------------------|--------------------|----------------|----------------|-----------|----------------|------------|--------------|-----------|-----------|--------------|
| 16-20-30-80 FG                        | 1 Cultural |                  | (cfs)              | (ft)           | (ft)           | (ft)      | (ft)           | (11/11)    | (fl/s)       | (ft ps)   | (ft)      | MIT OF THE   |
| raymondville                          | reach 2   | 149620           | 5186.00            | 21.29          | 34.37          |           | 34.89          | 0.001337   | 5.82         | 891.06    | 94.30     | 0.33         |
|                                       | e frank S. 244 njavi  | 4 45404          | 201.00             | 21.00          |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2<br>reach 2  | 147620<br>147620 | 694.00<br>1202.00  | 21.09<br>21.09 | 29.45<br>31.03 |           | 29.48          | 0.000128   | 1.41         | 490.64    | 75,43     | 0.10         |
| raymondville                          | reach 2   | 147620           | 1714.00            |                | 31.79          |           | 31.04          |            | 1.05         | 3225.16   | 2948.20   | 0.07         |
| raymondville                          | reach 2   | 147620           | 5186.00            | 21.09<br>21.09 | 34.64          |           | 31.79<br>34.64 | 0.000034   | 0.83         | 5475.46   | 3025.47   | 0.05         |
| (dylinostoyans)                       | I day a   | 1446020          | 5160.00            | 21.09          | 34.04          |           | 34.64          | 0.000014   | 0.65         | 18133.77  | 5387.67   | 0.03         |
| raymondville                          | reach 2   | 145620           | 694.00             | 20.88          | 29.19          |           | 29.22          | 0.000131   | 1.43         | 486.90    | 75.22     | 0.10         |
| raymondville                          | reach 2   | 145620           | 1202.00            | 20.88          | 30.91          |           | 30.92          | 0.000065   | 1.11         | 2917.44   | 2658.03   | 0.07         |
| raymondville                          | reach 2   | 145620           | 1714.00            | 20.88          | 31.71          |           | 31.72          | 0.000036   | 0.87         | 5309.15   | 3036.39   | 0.05         |
| raymondville                          | reach 2   | 145620           | 5186.00            | 20.88          | 34.61          |           | 34.62          | 0.000014   | 0.66         | 18188.82  | 5847.48   | 0.03         |
| 3 THE PART 1                          | TWARING A   | 100000           |                    |                |                |           |                | 0.000011   | 0.00         | 10100.02  | 3047.40   | 0.00         |
| raymondville                          | reach 2   | 142669           | 694.00             | 20.57          | 28.79          |           | 28.83          | 0.000135   | 1.44         | 480.72    | 74.90     | 0.10         |
| raymondville                          | reach 2   | 142889           | 1202.00            | 20.57          | 30,57          |           | 30.63          | 0.000198   | 1.94         | 620.12    | 82.01     | 0.12         |
| raymondville                          | reach 2   | 142669           | 1714.00            | 20,57          | 31.41          |           | 31.51          | 0.000297   | 2.48         | 690.31    | 85.36     | 0.15         |
| raymondville                          | reach 2   | 142669           | 5186.00            | 20.57          | 33.98          |           | 34.46          | 0.001195   | 5.58         | 986.91    | 224.93    | 0.32         |
| ~ 2 y                                 |   |                  |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 142619           | 694.00             | 20.57          | 28.79          |           | 28.82          | 0.000136   | 1.45         | 480.20    | 74.87     | 0.10         |
| raymondville                          | reach 2   | 142619           | 1202.00            | 20.57          | 30.56          |           | 30.62          | 0.000198   | 1.94         | 619.29    | 81.97     | 0.12         |
| raymondville                          | reach 2   | 142619           | 1714.00            | 20.57          | 31.39          |           | 31.49          | 0.000299   | 2.49         | 689.00    | 85.30     | 0.15         |
| raymondville                          | reach 2   | 142619           | 5186.00            | 20.57          | 33.91          |           | 34.40          | 0.001222   | 5.62         | 972.20    | 216.00    | 0.32         |
|                                       | #M3-2176-57   | <u> </u>         |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 140677           | 694.00             | 20.38          | 28.51          |           | 28.55          | 0.000141   | 1.46         | 473.80    | 74.53     | 0.10         |
| raymondville                          | reach 2   | 140677           | 1202.00            | 20.38          | 30.18          |           | 30.24          | 0.000199   | 1.92         | 913.67    | 1803.60   | 0.12         |
| raymondville                          | reach 2   | 140677           | 1714.00            | 20.38          | 31.14          |           | 31.16          | 0.000112   | 1.52         | 2697.63   | 1903.48   | 0.09         |
| raymondville                          | reach 2   | 140677           | 5186.00            | 20.38          | 34.02          |           | 34.02          | 0.000053   | 1.17         | 10532.09  | 4094.05   | 0.07         |
|                                       | 10 to 100 to 2 (841)  | 400050           | 20155              |                | 00.00          |           |                | 0          |              |           |           | <u> </u>     |
| raymondville                          | reach 2   | 138658           | 694.00             | 20.17          | 28.22          |           | 28.26          | 0.000146   | 1.48         | 467.78    | 74.20     | 0.10         |
| raymondville                          | reach 2   | 138658           | 1202.00<br>1714.00 | 20.17          | 29.73<br>30.88 |           | 29.80<br>30.91 | 0.000233   | 2.06         | 584.50    | 80.25     | 0.13         |
| raymondville                          | reach 2   | 138658           | 5186.00            | 20.17          | 33.95          |           | 33.95          | 0.000143   | 1.71<br>0.87 | 2397.45   | 2088.13   | 0.11         |
| Tayttera                              | 100.112   | 130000           | 3180.00            | 20.17          | 33.53          |           | 33.83          | 0.000024   | 0.07         | 14927.89  | 5065.24   | 0.05         |
| raymondville                          | reach 2   | 138000           | 694.00             | 20.10          | 28.12          |           | 28.16          | 0.000148   | 1.49         | 465.77    | 74.10     |              |
| raymondville                          | reach 2   | 138000           | 1202.00            | 20.10          | 29.57          |           | 29.64          | 0.000148   | 2.08         | 577.46    | 79.90     | 0.10         |
| raymondville                          | reach 2   | 138000           | 1714.00            | 20.10          | 30,66          |           | 30.76          | 0.000242   | 2.57         | 666.65    | 84.25     | 0.14         |
| raymondville                          | reach 2   | 138000           | 5186.00            | 20.10          | 33,36          | 27.02     | 33.83          | 0.001204   | 5.56         | 1301.42   | 2270.48   | 0.32         |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | W 1 5 3 3 3 3   | A 5 1 3 5 5      | 0.140,00           | 20:10          | 55,00          | 27.02     |                | 0.001204   | 0.50         | 1001.42   | 2270.40   | 0.02         |
| reymondville                          | reach 2   | 137950           | 694.00             | 20.10          | 28.12          |           | 28.15          | 0.000149   | 1.49         | 465.21    | 74.07     | 0.10         |
| raymondville                          | reach 2   | 137950           | 1202.00            | 20.10          | 29.56          |           | 29.63          | 0.000243   | 2.09         | 576,47    | 79.85     | 0.14         |
| raymondville                          | reach 2   | 137950           | 1714.00            | 20.10          | 30.64          |           | 30.75          | 0.000330   | 2.58         | 665.21    | 84.18     | 0.16         |
| raymondville                          | reach 2   | 137950           | 5186.00            | 20.10          | 33.27          | 27.01     | 33.77          | 0.001270   | 5.69         | 1120.52   | 1724.45   | 0.33         |
|                                       |   | Tar strain from  |                    |                |                |           |                |            |              |           |           |              |
| raymondville.                         | reach 2   | 136663           | 694.00             | 20.09          | 27.91          |           | 27.95          | 0.000162   | 1.54         | 451.04    | 73.30     | 0.11         |
| raymondville                          | reach 2   | 136663           | 1202.00            | 20.09          | 29.22          |           | 29.30          | 0.000277   | 2.18         | 550.29    | 78.53     | 0.15         |
| raymondville                          | reach 2   | 136663           | 1714.00            | 20,09          | 30.26          |           | 30.34          | 0.000295   | 2.41         | 1536.81   | 3574.26   | 0.15         |
| raymondville                          | reach 2   | 138663           | 5186.00            | 20.09          | 33.53          |           | 33.53          | 0.000021   | 0.82         | 16281.02  | 5317.09   | 0.04         |
| 1.41 (3.67%)                          |   | 1.76 T 1 T V     |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 134669           | 694.00             | 19,96          | 27.61          |           | 27.64          | 0.000149   | 1.46         | 678.62    | 544.81    | 0.10         |
| raymondville                          | reach 2   | 134669           | 1202.00            | 19.96          | 29.10          |           | 29.11          | 0.000040   | 0.86         | 4049.42   | 3563.08   | 0.06         |
| raymondville                          | reach 2   | 134669           | 1714.00            | 19.96          | 30.25          |           | 30.25          | 0.000014   | 0.55         | 9743.59   | 5903.23   | 0.03         |
| raymondville                          | reach 2   | 134669           | 5186.00            | 19.96          | 33.52          |           | 33.52          | 0.000004   | 0.37         | 29390.69  | 6000.00   | 0.02         |
|                                       |   |                  |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 132609           | 694.00             | 19.75          | 27.51          |           | 27.51          | 0.000027   | 0.68         | 2464.80   | 1491.70   | 0.05         |
| raymondville                          | reach 2   | 132609           | 1202.00<br>1714.00 | 19.75          | 29.06          |           | 29.06          | 0.000011   | 0.49         | 6887.34   | 4354.29   | 0.03         |
| raymondville<br>raymondville          | reach 2   | - TOO - TOO -    | 5186.00            | 19.75<br>19.75 | 30.23          |           | 30.23          | 0.000006   |              | 12691.91  | 5814.05   | 0.02         |
| (LYILK/INVIII)                        | reach 2   | 132609           | 3186.00            | 18./5          | 33.51          |           | 33.51          | 0.000003   | 0.34         | 32358.25  | 6000.00   | 0.02         |
| raymondville                          | reach 2   | 129500           | 694.00             | 19.43          | 27.41          |           | 27.42          | 0.000046   | 0.89         | 1700.07   | 1088.45   |              |
| raymondville                          | reach 2   | 129500           | 1202.00            | 19.43          | 29.02          |           | 29.03          | 0.000046   | 0.89         | 4349.75   | 3379.48   | 0.06         |
| raymondville                          | reach 2   | 129500           | 1714.00            | 19.43          | 30.22          |           | 30.22          | 0.000023   | 0.72         | 9262.95   |           | 0.04         |
| raymondville                          | reach 2   | 129500           | 5186.00            | 19.43          | 33.50          |           | 33.51          | 0.000010   | 0.46         | 25903.59  | 5356.32   | 0.03         |
|                                       |   |                  | 3.00.00            |                | 33.30          |           | 55.31          | 5.555.05   | 0.40         | 20000.03  | 3030.02   | 0.02         |
| raymondville                          | reach 2   | 129450           | 694.00             | 19.43          | 27.41          |           | 27.42          | 0.000046   | 0.89         | 1697.50   | 1087.66   | 0.06         |
| raymondville                          | reach 2   | 129450           | 1202.00            | 19.43          | 29.02          |           | 29.03          | 0.000023   | 0.72         | 4345.89   | 3376.19   | 0.04         |
| raymondville                          | reach 2   | 129450           | 1714.00            | 19.43          | 30.22          |           | 30.22          | 0.000010   | 0.52         | 9260.65   | 4484.08   | 0.03         |
| raymondville                          | reach 2   | 129450           | 5186.00            | 19.43          | 33.50          |           | 33.50          | 0.000005   | 0.46         | 25858.30  |           | 0.02         |
| - 74 Ly 1 e                           | # 8400 mm   | L Similar        |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 127700           | 694.00             | 19.25          | 27.31          |           | 27.33          | 0.000068   | 1.10         | 1155.17   | 678.24    | 0.07         |
| raymondville                          | reach 2   | 127700           | 1202.00            | 19.25          | 28.97          |           | 28.98          | 0.000042   | 0.99         | 2645.90   | 1108.91   | 0.06         |
| raymondville                          | reach 2   | 127700           | 1714.00            | 19.25          | 30.18          |           | 30.18          | 0.000035   | 0.99         | 4287.94   | 1824.16   | 0.06         |
| raymondville                          | reach 2   | 127700           | 5186.00            | 19.25          | 33.49          |           | 33.49          | 0.000013   | 0.73         | 18091.74  | 4645.99   | 0.04         |
| 2 3                                   |   | 2                |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 128465           | 694.00             | 19.12          | 27.21          |           | 27.23          | 0.000103   | 1.07         | 833.85    | 370.30    | 0.09         |
| raymondville                          | reach 2   | 126465           | 1202.00            | 19.12          | 28.90          |           | 28.92          | 0.000074   | 1.10         | 1725.66   | 676.87    | 0.08         |
| raymondville                          | reach 2   | 126465           | 1714.00            | 19.12          | 30.11          |           | 30.13          | 0.000063   | 1.14         | 4017.60   | 4249.25   | 0.07         |
| raymondville                          | reach 2   | 126465           | 5186.00            | 19.12          | 33.48          |           | 33.48          | 0.000009   | 0.54         | 22546.93  | 6000.00   | 0.03         |
|                                       | <u> </u>  |                  |                    |                |                |           |                |            |              |           |           |              |
| raymondville                          | reach 2   | 124374           | 694.00             | 18.91          | 27.06          |           | 27.07          | 0.000052   | 0.96         | 1661.46   | 1552.62   | 0.06         |
| raymondville                          | reach 2   | 124374           | 1202.00            | 18.91          | 28.85          |           | 28.85          | 0.000015   | 0.60         | 5412.36   | 2697.7B   | 0.04         |
| raymondville                          | reach 2   | 124374           | 1714.00            | 18.91          | 30.09          |           | 30.09          | 0.000008   | 0.48         | 9971.10   | 4177.07   | 0.03         |
| raymondville                          | reach 2   | 124374           | 5186.00            | 18.91          | 33.47          |           | 33.47          | 0.000005   | 0.47         | 25196.95  | 5245.80   | 0.02         |
| <ul> <li>Lakerő No. 4</li> </ul>      | 16 2 2 3 3 5 5 5 6  | 124318           | 694.00             | 18,90          | 27.06          |           | 27.07          | 0.000057   | 0.83         | 1659.74   | 1552.24   | 0.06         |
| raymondville                          | reach 2   |                  |                    |                |                |           |                |            |              |           |           |              |

|                                       | Man: P IOD                                | River Sta | Q Total   | Min Ch El     | W.S. Elev   | Crit W.S.   | E.G. Elev   | E.G. Slope  | Vel Chrit   | Flow Area   | Top Width | Froude # Chi  |
|---------------------------------------|---|-----------|-----------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|---------------|
| River                                 | Fleach                                    | Lavel or  | (cfe)     | (#)           | (17)        | (lt)        | (n)         | (ft/ft)     | (ft/s)      | (sq ft)     | (ft)      |               |
| 44-93-55-5                            |   | 124318    | 1202.00   | 18.90         | 28.84       |             | 28.84       | 0.000018    | 0.53        | 5389.37     | 2695.25   | 0.0           |
|                                       | reach 2                                   | 124318    | 1714.00   | 18.90         | 30.09       |             | 30.09       | 0.000008    | 0.43        | 9955.74     | 4176.50   | 0.            |
| 4                                     | reach 2                                   | 124518    | 5186.00   | 18.90         | 33.46       |             | 33.46       | 0.000005    | 0.43        | 25153.28    | 5238.73   | 0.            |
| symondville                           | reach 2                                   | 124010    |           |               |             |             |             |             |             |             |           |               |
|                                       |   | 122094    | 694.00    | 18.67         | 26.98       |             | 26.99       | 0.000030    | 0.68        | 2295.09     | 1450.83   | 0.            |
| aymondville                           | reach 2:                                  | 122084    | 1202.00   | 18.67         | 28.81       |             | 28.61       | 0.000011    | 0.48        | 5212.73     | 1740.77   | 0             |
| aymondville                           | reach 2                                   | 122094    | 1714.00   | 18.67         | 30.08       |             | 30.08       | 0.000009    | 0.49        | 7872.43     | 3612.96   | 0             |
| aymondville                           | reach 2                                   |           | 5186.00   | 18.67         | 33.45       |             | 33.48       | 0.000007    | 0.53        | 22787.88    | 5157.98   |               |
| aymondville                           | reach 2                                   | 122094    | 3160.00   | 10.07         |             |             |             |             |             |             |           |               |
| 1300 48 8000                          | 4 S 1 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 |           | 694.00    | 18.63         | 28.94       |             | 26.97       | 0.000123    | 1.38        | 572.67      | 215.15    |               |
| aymondville                           | reach 2                                   | 121688.*  | 1202.00   | 18.63         | 28.79       |             | 28.90       | 0.000061    | 1.10        | 2428.00     | 1480.38   |               |
| aymondville                           | reach 2                                   | 121688.*  | 1714.00   | 18.63         | 30.06       |             | 30.07       | 0.000028    | 0.83        | 5579.98     | 3220.48   |               |
| aymondville                           | reach 2                                   | 121688.*  |           | 18.63         | 33.45       |             | 33.45       | 0.000012    | 0.87        | 19326.77    | 5025.80   |               |
| eymondville                           | reach 2                                   | 121688.*  | 5186.00   | 10.03         |             |             |             |             |             |             |           |               |
| 100000                                | 34 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |           |           | 18.59         | 26.90       |             | 26.93       | 0.000119    | 1.36        | 603.58      | 239.88    |               |
| raymondville                          | reach 2                                   | 121283.*  | 694.00    |               | 28.74       |             | 28.77       | 0.000122    |             | 1426.29     | 1073.35   | (             |
| raymondville                          | reach 2                                   | 121283    | 1202.00   | 18.59         | 30.05       |             | 30.08       |             |             | 4199.44     | 2768.10   |               |
| raymondville                          | reach 2                                   | 121283.*  | 1714.00   | 18.59         |             |             | 33.45       |             |             | 16928.94    | 5215.12   |               |
| raymondville                          | reach 2                                   | 121263.*  | 5186.00   | 18,59         | 33.45       |             | 33,45       | 3.555517    | 1           | 1           |           |               |
| the second                            | Alfan in English                          | A (1998)  | <b>_</b>  |               |             |             | 26.89       | 0.000112    | 1.32        | 665.17      | 288.02    |               |
| raymondville                          | reach 2                                   | 120877.*  | 694.00    | 18.55         |             |             | 26.73       |             |             |             | 1530.43   |               |
| raymondville                          | reach 2                                   | 120877.*  | 1202.00   | 18.55         | +           |             | 30.06       |             |             |             | 2085.17   |               |
| raymondville                          | reach 2                                   | 120877.*  | 1714.00   | 18.55         |             |             | 30.00       |             |             |             |           |               |
| raymondville                          | reach 2                                   | 120877.*  | 5186.00   | 18.55         | 33.45       | <del></del> | 33.45       | 3.000       | +           |             |           |               |
| - W                                   | 145                                       | a Tabers  |           |               |             |             |             | 0.000107    | 7 1.29      | 848.28      | 881.70    |               |
| raymondville                          | reach 2                                   | 120472.*  | 694.00    | 18.51         |             | <del></del> | 26.85       |             |             |             | 1958.66   |               |
| raymondville                          | reach 2                                   | 120472.*  | 1202.00   | 18.51         | +-          |             | 28.77       |             |             |             |           |               |
| raymondville                          | reach 2                                   | 120472.*  | 1714.00   | 18.51         | +           | t           | 30.0        |             |             |             |           | +             |
| raymondville                          | reach 2                                   | 120472.*  | 5186.00   | 18.51         | 33.45       | š           | 33.4        | 0.00001     | 2 0.62      | 10107.28    | 3200.00   |               |
|                                       | 1   |           |           |               |             |             |             | <del></del> |             |             | 1039.07   | ,             |
| raymondville                          | reach 2                                   | 120087    | 694.00    | 18.47         |             |             |             |             |             |             |           |               |
| raymondville                          | reach 2                                   | 120067    | 1202.00   | 18.4          |             |             |             |             |             |             |           |               |
|                                       | reach 2                                   | 120067    | 1714.00   |               |             | 5 21.9      |             |             |             |             |           | +             |
| raymondville                          |   | 120067    | 5186.00   |               |             | 5 26.5      | 9 33.4      | 5 0.00000   | 8 0.5       | 0 18446.36  | 3050.9    |               |
| raymondville                          | reach 2                                   | 1.20007   | 1         | 1             | T           |             |             |             | 1           |             |           | <del></del> _ |
|                                       |   | 119652.*  | 694.00    | 18.4          | 3 26.8      | 0 20.4      | 0 26.8      |             | <del></del> |             |           | _             |
| raymondville                          | reach 2                                   | 119652.   | 1202.00   | +             |             | -           | 3 28.7      | 0.00002     |             |             |           |               |
| raymondville                          | reach 2                                   | 119652.*  | 1714.00   | +             | <del></del> |             | 30.0        |             |             |             | -         | +             |
| raymondville                          | reach 2                                   | 119852.   | 5188.00   |               |             |             | 33.4        | 0.00000     | 0.5         | 2 18218.8   | 4 3083.1  | U             |
| raymondville                          | reach 2                                   | 13.5      | - 5.55.44 |               | 1           |             |             |             |             |             | -         |               |
| -                                     |   | 119237.*  | 894.00    | 18.3          | 8 26.7      | 8 20.3      | 35 26,7     | 0.00000     |             |             |           |               |
| raymondville                          | reach 2                                   |           | 1202.00   |               | <del></del> |             |             | 0.0000      |             |             |           |               |
| raymondville                          | reach 2                                   | 119237.   |           |               |             |             |             |             |             |             |           |               |
| raymondville                          | reach 2                                   | 119237.   | 1714.00   |               |             | -           |             |             |             | 19002.2     | 3 4051.8  | 4             |
| raymondville                          | reach 2                                   | 119237.*  | 5186.0X   | 18.3          | ~           |             | T           | 1           |             |             |           | <del></del>   |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4:22 21                                   | 4         |           | 18.3          | 26.7        | 7 20        | 31 26.      | 78 0.0000   | 62 1.0      | 1328.7      |           |               |
| raymondville                          | reach 2                                   | 118622.   | 894.00    |               |             |             |             |             |             |             | 4 1988.2  | 8             |
| reymondville                          | reach 2                                   | 118822    | 1202.00   |               | -           |             |             |             |             |             | 7 3307.0  | 33            |
| raymondville                          | reach 2                                   | 118822    | 1714.0    |               |             |             |             |             |             | <del></del> |           | 20            |
| raymondville                          | reach 2                                   | 118822    | 5186.0    | 0 18.0        | 33,4        | <del></del> |             | 1           | 1           | 1           |           |               |
| 1 3 - 1 4                             | A 411.4                                   |           |           |               | 30 26.7     | 75 20.      | 27 26.      | 78 0.0000   | 53 0.       | 97 1434.9   | 947.      | 71            |
| raymondville                          | reach 2                                   | 118407    | 694.0     |               |             |             |             | -           |             |             | 2272.     | 52            |
| raymondville                          | reach 2                                   | 118407    | 1202.0    |               |             |             |             |             |             | 59 8498.0   | 3894.     | 09            |
| raymondville                          | reach 2                                   | 118407    | 1714.0    |               | <del></del> |             | .55 33      |             | _           |             |           | 00            |
| raymondville                          | reach 2                                   | 118407    | 5186.0    | 0 18.         | 30 33.      | 26          |             | 3.000       | <u>-</u>    |             |           |               |
| 1.0                                   | 5 11 3/5                                  | Je 27     |           |               |             | 74          | 700         | .75 0.0000  | 54 0        | 96 1413.    | 87 949.   | 44            |
| raymondville                          | reach 2                                   | 118184.*  | 694.0     |               |             |             |             | .69 0.0000  |             | 66 4688.    | 2200      |               |
| raymondville                          | reach 2                                   | 118184.   | 1202.0    |               |             |             |             | .04 0.0000  |             | .53 8481.   |           |               |
| raymondville                          | reach 2                                   | 118184.   | 1714.0    |               |             |             |             | .44 0.000   |             | .52 23178.  |           |               |
| raymondville                          | reach 2                                   | 118184.   | 5188.0    | 20 18.        | .28 33.     | 44          |             | 0.000       |             | 25.70       |           |               |
| 1 - 1 - 1 - 1                         | A - 100 P. L. 100                         | e kan t   |           |               |             |             |             | 73 0.000    | nee n       | ,95 1390    | 29 954    | .16           |
| raymondville                          | reach 2                                   | 117982.*  | 694.0     |               | .25 28      |             |             |             |             | .65 4683    |           |               |
| raymondville                          | reach 2                                   | 117962    | 1202.0    |               |             | .69         |             |             |             | .52 8485    |           |               |
| raymondville                          | reach 2                                   | 117962.*  | 1714.     |               |             | .03         |             | 0.000       |             | 0.52 22602  |           |               |
| raymondville                          | reach 2                                   | 117982.*  | 5186.     | 00 18         | .25 33      | .44         | 33          | 0.000       | we          | 22002       | 7,20      |               |
|                                       |   | 11 117    |           |               |             |             |             |             | 050         | 95 1363     | .08 965   | .34           |
| raymondville                          | reach 2                                   | 117739.   | 694       | 00 18         |             | .71         |             | 3.72 0.000  |             |             |           |               |
| raymondville                          | reach 2                                   | 117739.1  | 1202.     | 00 18         |             | .68         |             | 0.000       |             |             |           |               |
| raymondville                          | reach 2                                   | 117739.   | . 1714.   | 00 18         |             | .03         |             | 0.000       |             |             |           |               |
| raymondville                          | reach 2                                   | 117739.   | 5186.     | 00 18         | 1.23 33     | .44         |             | 3.44 0.000  | 000         | 1.50 22346  |           |               |
| TWANTE PARTY IN                       |   |           |           |               |             |             |             |             |             | 100         | 27 976    | 101           |
| raymondville                          | reach 2                                   | 117517.*  | 694       | 00 16         | 3.20 26     | 3.69        |             | 6.70 0.000  |             | 0.95 1335   |           |               |
|                                       | reach 2                                   | 117517.*  | 1202      |               |             | 3.68        |             | 8.68 0.000  |             | 0.63 4696   |           |               |
| raymondville                          |   | 117517.   |           |               |             | 0.03        |             | 0.03 0.000  |             | 0.50 8495   |           |               |
| raymondville                          | reach 2                                   | 117517.   |           |               |             | 3.44        | 3           | 3.44 0.000  | 0006        | 0.50 22177  | 7.51 431  | 03            |
| raymondville                          | reach 2                                   | 117517.   | 3186      |               |             |             | 1           |             |             |             |           |               |
|                                       |   |           |           | 00            | 8.18 21     | 8.68        | 2           | 6.69 0.00   | 0068        | 0.95 130    |           | 6.54          |
| raymondville                          |   | 117295    | 694       |               |             | 8.68        |             | 8.68 0.00   | 0019        | 0.61 4719   |           | 4.00          |
| raymondville                          | reach 2                                   | 117295    | 1202      |               |             | 0.03        |             |             |             | 0.49 850    |           | 7.54          |
| raymondville                          |   | 117295    | 1714      |               |             | 3.43        |             |             | 0006        | 0.50 2201   | 9.46 428  | 8.40          |
| raymondville                          | reach 2                                   | 117295    | 5186      | .00 1         | 8.18 3      | 0.40        |             |             |             |             |           |               |
|                                       |   | 1         |           | -             | 700         | 6.44        | <del></del> | 6.47 0.00   | 0120        | 1.38 50     |           | 6.04          |
| raymondville                          |   | 114850    |           | $\overline{}$ |             | 8.52        |             |             |             |             |           | 4.38          |
|                                       | reach 2                                   | 114850    | 1202      |               |             | 9.88        |             |             |             |             |           | 9.81          |
| raymondville                          |   | 114850    | 1714      |               | 7.93        |             |             |             |             |             |           |               |

| HEC_DAS<br>River                         | Plan: P 10.1            | $J_{\mathcal{S}}(Cont$ | brod)            | Min Ch El | WO CO     | 0.000     | F 0 F          | New State  | 0.00.200 |           | Ni wa 1 100 a ma din | re zeroo mensozo |
|--|-------------------------|------------------------|------------------|-----------|-----------|-----------|----------------|------------|----------|-----------|----------------------|------------------|
| i i i i i i i i i i i i i i i i i i i    | Reach                   | River Sta              | Q Total<br>(cfs) | (ff)      | W.S. Elev | Crit W.S. | E.G. Elev      | E.G. Slope | Vel Chnt | Flow Area | Top Width            | Froude # Chi     |
|  | 0 (00 14 December 1994) | 0.00 (S) (C) (S)       | (CB)             |           | (n)       | (ft)      | (h)            | (ft/ft)    | (fVs)    | (eq ft)   | (A)                  |                  |
| raymondville                             | reach 2                 | 114401.*               | 694.00           | 17.88     | 26.39     |           | 26.41          | 0.000120   | 1.35     | 512.50    | 80.86                | 0.09             |
| raymondville                             | reach 2                 | 114401.*               | 1202.00          | 17.88     | 28.45     |           | 28.50          | 0.000120   | 1.74     | 690.45    | 91,41                | 0.09             |
| raymondville                             | reach 2                 | 114401.*               | 1714.00          | 17.88     | 29.80     |           | 29.87          | 0.000201   | 2.09     | 818.21    | 98.22                | 0.13             |
| raymondville                             | reach 2                 | 114401.*               | 5186.00          | 17.88     | 33.35     |           | 33.36          | 0.000047   | 1.25     | 11203.45  | 4688.29              | 0.07             |
| 2.00                                     | 1424831                 |                        |                  |           |           |           |                |            | 25       | 71200.40  | . 4550.25            | 5.07             |
| raymondville                             | reach 2                 | 113953.*               | 694.00           | 17.84     | 26.33     |           | 26,36          | 0.000125   | 1.33     | 519.89    | 86.55                | 0.10             |
| raymondville                             | reach 2                 | 113953.*               | 1202.00          | 17.84     | 28.38     |           | 28.43          | 0.000161   | 1.69     | 712.00    | 100.63               | 0.11             |
| raymondyille                             | reach 2                 | 113953.*               | 1714.00          | 17.84     | 29.72     |           | 29.78          | 0.000196   | 1.99     | 966.69    | 875.67               | 0.13             |
| raymondville                             | reach 2                 | 113953.*               | 5186.00          | 17.84     | 33.35     |           | 33.35          | 0.000024   | 0.90     | 14653.80  | 4785.25              | 0.05             |
| () · · · · · · · · · · · · · · · · · · · |                         | AND COLUM              |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 2                 | 113504.*               | 694.00           | 17.79     | 26.28     |           | 26.30          | 0.000134   | 1.32     | 526.29    | 94.41                | 0.10             |
| raymondville                             | reach 2                 | 113504.*               | 1202.00          | 17.79     | 28.31     |           | 28.35          | 0.000160   | 1.61     | 819.13    | 403.59               | 0.11             |
| raymondville                             | reach 2                 | 113504.*               | 1714.00          | 17.79     | 29.69     |           | 29.71          | 0.000088   | 1.35     | 2841.50   | 2359.52              | 0.08             |
| raymondville                             | reach 2                 | 113504.*               | 5186.00          | 17.79     | 33.34     |           | 33.34          | 0.000013   | 0.68     | 17864.04  | 4704.65              | 0.04             |
|  |                         |                        |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 2                 | 113056.*               | 694.00           | 17.75     | 26.22     |           | 26.25          | 0.000154   | 1.30     | 533.79    | 109.31               | 0.10             |
| raymondville                             | reach 2                 | 113056.*               | 1202.00          | 17.75     | 28.29     |           | 28.30          | 0.000074   | 1.10     | 2191.91   | 1634.02              | 0.08             |
| raymondville                             | reach 2                 | 113056.                | 1714.00          | 17.75     | 29.68     |           | 29.68          | 0.000031   | 0.80     | 5412.76   | 3116.37              | 0.05             |
| raymondville                             | reach 2                 | 113056.*               | 5186.00          | 17.75     | 33.33     |           | 33.34          | 0.000008   | 0.54     | 20772.38  | 4581.13              | 0.03             |
| 28/0/2012                                |                         |                        |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 2                 | 112608                 | 694.00           | 17.70     | 26.17     |           | 26.19          | 0.000121   | 1.10     | 992.54    | 1100.63              | 0.09             |
| raymondville                             | reach 2                 | 112608                 | 1202.00          | 17.70     | 28.27     |           | 28.28          | 0.000025   | 0.64     | 4214.67   | 2283.44              | 0.04             |
| raymondville                             | reach 2                 | 112608                 | 1714.00          | 17.70     | 29.67     |           | 29.67          | 0.000011   | 0.49     | 8060.86   | 3151.26              | 0.03             |
| raymondville                             | reach 2                 | 112608                 | 5186.00          | 17.70     | 33.33     |           | 33.33          | 0.000006   | 0.44     | 23384.58  | 4438.33              | 0.02             |
| H. O. S. S.                              |                         |                        | L                |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 2                 | 112513.*               | 694.00           | 17.89     | 26.16     |           | 26.18          | 0.000149   | 1.29     | 539.52    | 109.67               | 0.10             |
| raymondville                             | reach 2                 | 112513.*               | 1202.00          | 17.69     | 28.26     |           | 28.27          | 0.000057   | 0.99     | 2568.93   | 1750.36              | 0.07             |
| raymondville                             | reach 2                 | 112513.*               | 1714.00          | 17.69     | 29.68     |           | 29.66          | 0.000023   | 0.71     | 6173,86   | 3239.11              | 0.04             |
| raymondville                             | reach 2                 | 112513                 | 5186.00          | 17.69     | 33.32     |           | 33.32          | 0.000007   | 0.60     | 22324.48  | 4775.19              | 0.03             |
| 2  |                         |                        |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 2                 | 112419.*               | 694.00           | 17.69     | 26.14     |           | 26.17          | 0,000131   | 1.31     | 528.37    | 93.70                | 0.10             |
| raymondville                             | reach 2                 | 112419.*               | 1202.00          | 17.69     | 28.22     |           | 28.26          | 0.000134   | 1.53     | 1123.40   | 1200.88              | 0.10             |
| raymondville                             | reach 2                 | 112419.*               | 1714.00          | 17.69     | 29.64     |           | 29.65          | 0.000056   | 1.12     | 4113.33   | 3298.60              | 0.07             |
| (BYITHOURD WHO                           | reach 2                 | 112419.*               | 5186.00          | 17.69     | 33.31     |           | 33.32          | 0.000009   | 0.57     | 21623.92  | 5453.20              | 0.03             |
| raymondville                             | reach 2                 | 112324.*               | 694.00           | 17.68     | 26.13     |           | 20.40          | 0.000400   |          |           |                      |                  |
| raymondville                             | reach 2                 | 112324.*               | 1202.00          | 17.68     | 28.20     |           | 26.16          | 0.000123   | 1.35     | 515.53    | 83.71                | 0.10             |
| raymondville                             | reach 2                 | 112324.*               | 1714.00          | 17.68     | 29.59     |           | 28.25          | 0.000158   | 1.71     | 701.60    | 95,47                | 0.11             |
| raymondville                             | reach 2                 | 112324.*               | 5186.00          | 17.68     | 33.31     |           | 29.64<br>33.31 | 0.000146   | 1.81     | 1852.95   | 2725.36              | 0.11             |
| TOPTESTATE                               | Touch 2                 | TIEGE4.                | 3100.50          | 17.00     | 33.31     |           | 33.31          | 0.0000101  | 0.62     | 21106.66  | 5726.60              | 0.03             |
| raymondville                             | reach 2                 | 112290                 | 694.00           | 17.67     | 26.11     |           | 26.14          | 0.000123   | 1.40     | 497.19    | 75.77                | 0.10             |
| raymondville                             | reach 2                 | 112230                 | 1202.00          | 17.67     | 28.18     |           | 28.23          | 0.000123   | 1.81     | 662.50    | 84.05                | 0.10             |
| raymondville                             | reach 2                 | 112230                 | 1714.00          | 17.67     | 29.54     |           | 29.62          | 0.000211   | 2.20     | 780.53    | 89.49                | 0.13             |
| raymondville                             | reach 2                 | 112230                 | 5186.00          | 17.67     | 33.30     |           | 33.30          |            | 0.66     | 20628.71  | 6000.00              | 0.03             |
| 100000000000000000000000000000000000000  | 100                     | 10.2.3.4.4             |                  |           |           |           |                | 5,000      | 0.00     | EGGED.7 T | - 0000:00            | 0.50             |
| raymondville                             | reach 2                 | 110608                 | 694.00           | 17.50     | 25.92     |           | 25.95          | 0.000124   | 1.40     | 495.28    | 75.67                | 0.10             |
| raymondville                             | reach 2                 | 110608                 | 1202.00          | 17.50     | 27.92     |           | 27.97          | 0.000170   | 1.84     | 654.62    | 83.67                | 0.12             |
| raymondville                             | reach 2                 | 110608                 | 1714.00          | 17.50     | 29.20     |           | 29.27          | 0.000223   | 2.24     | 764.79    | 88.78                | 0.13             |
| raymondville                             | teach 2                 | 110608                 | 5186.00          | 17.50     | 33.28     |           | 33.28          | 0.000012   | 0.66     | 20526.83  | 6000.00              | 0.03             |
| a kaji engli                             | 5 NAME                  |                        |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 144530                 | 201.00           | 21.30     | 32.27     |           | 32.27          | 0.000004   | 0.29     | 701.56    | 85.89                | 0.02             |
| raymondville                             | reach 3 (south)         | 144530                 | 343.00           | 21.30     | 34.49     |           | 34.49          |            | 0.38     | 901.83    | 94.76                | 0.02             |
| raymondville                             | reach 3 (south)         | 144530                 | 528.00           | 21.30     | 36.55     |           | 36.56          | 0.000002   | 0.23     | 6501.58   | 3516.52              | 0.01             |
| raymondville                             | reach 3 (south)         | 144530                 | 1148.00          | 21.30     | 39.17     |           | 39.17          | 0.000001   | 0.17     | 15713.97  | 3516.52              | 0.01             |
|  |                         | No est Vi              |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 144230                 | 201.00           | 21.30     | 32.27     |           | 32.27          | 0.000004   | 0.29     | 701.45    | 85.88                | 0.02             |
| raymondville                             | reach 3 (south)         | 144230                 | 343.00           | 21.30     | 34.49     |           | 34.49          | 0.000006   | 0.38     | 901.67    | 94.75                | 0.02             |
| raymondville                             | reach 3 (south)         | 144230                 | 528.00           | 21.30     | 36.55     |           | 36.55          | 0.000002   | 0.23     | 6499.88   | 3516.52              | 0.01             |
| raymondville                             | reach 3 (south)         | 144230                 | 1148.00          | 21.30     | 39.17     |           | 39.17          | 0.000001   | 0.17     | 15713.25  | 3516.52              | 0.01             |
|  |                         | 1                      |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 144030                 | 201.00           | 26.10     | 32.22     | 27.56     | 32.27          | 0.000175   | 1.64     | 122.40    | 44.49                | 0.12             |
| raymondville                             | reach 3 (south)         | 144030                 | 343.00           | 26.10     | 34.41     | 28.19     | 34.48          |            | 2.06     | 166.21    | 53.25                | 0.13             |
| raymondville                             | reach 3 (south)         | 144030                 | 528.00           | 26.10     | 36.44     | 28.88     | 36.54          | 0.000211   | 2.55     | 206.78    |                      | 0.14             |
| raymondville                             | reach 3 (south)         | 144030                 | 1148.00          | 26.10     | 39.11     | 30.77     | 39.17          | 0.000171   | 1.90     | 880.45    | 2554.83              | 0.12             |
| 1 1 1 1                                  |                         |                        |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 144020                 | 201.00           | 26.10     | 32.22     | 27.56     | 32.26          | 0.000175   | 1.64     | 122.40    | 44.49                | 0.12             |
| raymondville                             | reach 3 (south)         | 144020                 | 343.00           | 26.10     | 34.41     | 28.19     | 34.48          |            | 2.06     | 166.17    | 53.25                | 0.13             |
| raymondville                             | reach 3 (south)         | 144020                 | 528.00           | 26.10     | 36.44     | 28.88     | 36.54          | 0.000211   | 2.55     | 206.74    | 61.36                | 0.14             |
| raymondville                             | reach 3 (south)         | 144020                 | 1148.00          | 26.10     | 39.11     | 30.78     | 39.17          | 0.000171   | 1.90     | 876.60    | 2554.83              | 0.12             |
|  | manch Office 41         | 444000                 | ~ ~              |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 144005                 | Culvert          |           |           |           |                |            |          |           |                      |                  |
|  | 1                       | 1.4000                 |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 143990                 | 201.00           | 26.10     | 31.93     | 27.58     | 31.98          | 0.000206   | 1.72     | 116.57    | 43.33                | 0.13             |
| raymondville                             | reach 3 (south)         | 143990                 | 343.00           | 26.10     | 33.74     | 28.19     | 33.82          | 0.000244   | 2.24     | 152.81    | 50.57                | 0.14             |
| raymondville                             | reach 3 (south)         | 143990                 | 528.00           | 26.10     | 34.80     | 28.88     | 34.94          | 0.000375   | 3.04     | 173.95    | 54.80                | 0.18             |
| raymondville                             | reach 3 (south)         | 143990                 | 1148.00          | 26.10     | 35.85     | 30.78     | 36.39          | 0.001211   | 5.89     | 194.99    | 59.01                | 0.33             |
|  |                         |                        |                  |           |           |           |                |            |          |           |                      |                  |
| raymondville                             | reach 3 (south)         | 143980                 | 201.00           | 26.10     | 31.94     |           | 31.96          | 0.000134   | 1.09     | 185.18    | 43.38                | 0.09             |
| raymondville                             | reach 3 (south)         | 143980                 | 343.00           | 26.10     | 33.77     |           | 33.79          | 0.000136   | 1.27     | 270.97    | 50.67                | 0.10             |
| raymondville                             | reach 3 (south)         | 143980                 | 528.00           | 26.10     | 34.85     |           | 34.89          |            | 1,61     | 328.10    | 55,00                | 0.12             |
| raymondville                             | reach 3 (south)         | 143960                 | 1148.00          | 26.10     | 36.05     |           | 36.1B          | 0.000537   | 2.89     | 396.95    | 59.80                | 0.20             |
| 1 5 6 7 7 7 8 8                          | 小殿片 法扩张美                | 45% 10000              |                  |           |           |           |                |            |          |           | L                    |                  |

|               | 00.64             | 25. 260.09          | 48.1<br>68.1  | 051000.0                | 30.29<br>78.16 |              | 85.06<br>68.16 | 10.6S<br>10.6S | 00.64£<br>00.852                                 | 121629      | (rituos) & ribeen<br>(rituos) & ribeen  | elikbromy:                 |
|---------------|-------------------|---------------------|---------------|-------------------------|----------------|--------------|----------------|----------------|--|-------------|---|----------------------------|
|               | 42.03             | 78.071              | 81.1          | 781000.0                | 28.54          | <del> </del> | S8.82<br>85.06 | 23.01          | 201.00   | 121629      | (dtuos) & ricean<br>(dtuos) & choest    | elivbromy                  |
|               |                   |                     | 1             | 1                       |                | -            | <del></del>    | -              | 100  | 200,01      | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | -0,7                       |
| 90.0          | 00.0029           | ₽£.1188             | 66.0          | 8 <b>1</b> 00000.0      | 35.29          |              | 35.28          | 03.ES          | 00.8411  | 123138      | (dtuas) & doesn                         | eli/bromy                  |
| 11.0          | <b>79.32</b>      | 9E.7EE              | 95°L          | TT1000.0                | 32.16          |              | St.SE          | 02.22          | 628.00   | 123138      | (rituos) & ribean                       | ellivonomy                 |
| 11.0          | 7S.64             | 253.49              | 1.35          | 191000.0                | 25.0C          |              | 30.52          | 23.20          | 00.EÞE   | 123138      | (rituos) E ricean                       | allivbromy                 |
| 01.0          | 42.30             | 19.571              | 81.1          | 0.000160                | 08.82          |              | 87.85          | 23.20          | 00.10S   | 123138      | (rilivos) & ricasen                     | eHivbnomy                  |
| 90'0          | 00'0059           | 97.215.76           | <b>76</b> '0  | 0.000042                | 36.36          | <del></del>  | 66.66          | 76.6S          | 00.0=11  | COLLT       | (upos) o cons                           | DINTE COLUMN               |
|               | 06.88             | 95.04E              | 99.1          | ET1000.0                | 32.36          |              | 35.35          | TE.ES          | 528.00   | 124435      | (rhuos) & rhaser<br>(rhuos) & rhaser    | ellivbriomy.               |
| 01.0          | PP 6P             | 525.48              | 1.34          | 051000.0                | 30.76          |              | E7.0E          | 75.5S          | 343.00   | 124435      | reach 3 (south)                         | ollivbromy                 |
| 01'0          | 42.44             | TI.ZTI              | 1.15          | 951000.0                | 29.00          |              | 86.85          | 76.ES          | 201.00   | 124435      | reach 3 (south)                         | Hindrichille               |
|               |                   |                     |               |                         |                |              |                |                | <del>                                     </del> |             | englis in the                           | F 150 1 1                  |
|               | 00.0029           | 7617.20             | 66.0          | 860000.0                | 14.25          |              | 14.26          | 62.ES          | 1148.00  | 120162      | reach 3 (south)                         | ellivbnomy                 |
| 11.0          | 61.95             | 39.44.65            | 1.53          | <b>59100</b> 0.0        | 79.56          |              | 32.64          | 83.ES          | 00.828   | 521921      | (rituos) 6 riosen                       | ellivbnomy                 |
| 01.0          | 19.61             | 258.04              | EE.1          | 961000.0                | 50.15          | <u> </u>     | 31.00          | 53.59          | 00.545   | 126152      | (divoe) & doesn                         | elivbnomyr                 |
| 010           | 29.53             | 70.771              | 11.1          | 521000.0                | 75.95          |              | 29.25          | 23.59          | 00.105   | 126152      | (dtuce) & dosen                         | ellivbnomy                 |
| 90.0          | 00.0029           | 81.6297             | <b>68.</b> 0  | 8£0000.0                | 35.42          |              | 14.2C          | 09.62          | 00.8411  | 128200      | reach 3 (eouth)                         | Amondville                 |
|               | 81.88             | 344.56              | 89 I          | 781000.0                | 88.SE          |              | 32.65          | 23.60          | 00.828   | 126200      | reach 3 (south)                         | - Amondville               |
| 01.0          | £9.6¥             | 267.93              | 1.33          | 921000.0                | 10.16          | <del></del>  | 10.16          | 23.60          | 00.EAE   | 126200      | (rbuos) & rbaen                         | PIEVDODULÁ                 |
| 01.0          | 19.54             | 76.871              | PI I          | 0.000152                | 75.62          |              | 29.25          | 23.60          | 201,00   | 156200      | (rituos) & riosen                       | утопачте                   |
|               |                   |                     |               |                         |                |              |                |                |  | -           | 1                                       | 7.17.7                     |
| 90.0          | 00.0028           | T9.2727             | <b>28</b> .0  | SE0000.0                | TA.BE          |              | 74.2£          | 67.ES          | 00.8411  | 127694      | (ritruce) & chanen                      | eliivbriomyt               |
| 11.0          | 11.88             | 347.745             | SS.1          | 691000.0                | 58.SE          |              | 98.SE          | 23.79          | 00.852   | 127694      | (divos) & dasen                         | eliivbnomy                 |
| 01.0          | 87.5A<br>87.8A    | 64.871<br>269.93    | SE.1          | £81000.0                | 31.27          |              | 31.24          | 23.79          | 00.EAE   | 127694      | (rbuce) & doesn                         | elitybriomyr               |
|               | 32 67             | PA 971              | 1611          | 821000.0                | 09.6Z          | <del> </del> | 84.62          | 23.ES          | 201.00   | 127694      | (dtuce) & dosen                         | elivbromyr                 |
| 90.0          | 00.0028           | 16.0168             | 18.0          | 250000.0                | 35.52          |              | 35.82          | 88.ES          | 1148.00  | 158150      | (duos) & does                           | s/mondville                |
|               | 62.88             | 06.02E              | 18.1          | 091000.0                | 91.66          |              | 33.13          | 89.62          | 528.00   | 129120      | reach 3 (south)                         | BHIADUOUÁ                  |
| 01.0          | Z6'67             | 261.44              | 16.1          | 0.000150                | 69.1E          |              | 84.1E          | 89.62          | 00.EAE   | 129120      | (dauce) & doesn                         | ymondville                 |
| 01.0          | 16.52             | SN.671              | 1.12          | <b>8</b> ≱1000.0        | 17.92          |              | 29.65          | 83.98          | 201.00   | 129120      | (rituos) & ribaeri                      | elkvbnomy                  |
|               |                   |                     |               |                         |                |              |                |                |  |             | The state                               | 1. i                       |
| 90.0          | 00.0088           | 90.0998             | BT.0          | 62000000                | B2.2E          |              | 35.58          | 71.45          | 1148.00  | 130582      | (rituos) 6 riceen                       | elivbroniya                |
| 11.0          | TT.82             | 98.202              | 05.1          | 721000.0                | 04.EE          |              | 38.86          | 24.17          | 228.00   | 130285      | (rituos) E riceen                       | aliivbriomy                |
| 01.0          | \$0.04<br>\$0.04  | 180.48              | 06.1          | 811000.0                | 17,16          |              | 88.1E          | 71.45          | 00.102   | 130205      | (rituos) 6 ritanen                      | # AMADADAMA                |
|               | ,,,,,,,           | 57 001              | <del></del>   | <b>&gt;&gt;+1000</b> .0 | 29.92          |              | 29.90          | 71.45          | 201.00   | 130285      | (riguos) & rhonen                       | elävbromys                 |
| 90.0          | 18.25.81          | 99.0863             | <b>16</b> 0   | Z\$0000°0               | 19.86          |              | <b>69</b> .86  | 54.39          | 00.8411  | 135544      | (ttuos) & daser                         | elivbromy:                 |
|               | 28.268            | 81.018              | Ep.1          | EA1000.0                | 19.EE          |              | 18.55          | 54.39          | 00.852   | 135544      | (rbuce) & rbasen                        | eliivbnomy:                |
| 01.0          | 01.08             | 263.60              | 1.30          | <b>741000.0</b>         | 31.94          |              | 39.15          | 54.39          | 00.EhE   | 132244      | (rauce) & ripeen                        | - Amondalile               |
| 01.0          | 96°ZÞ             | 180.94              | 11'1          | E\$1000.0               | S1.0E          |              | \$1.0C         | 24.39          | 201.00   | 135544      | (ntuce) & chosen                        | ellivbromyt                |
|               |                   |                     |               |                         |                |              |                |                |  |             | a                                       | 5.86                       |
|               | 61.166E           | 5427.98             | \$6.0         | 81-0000.0               | 07.8£          |              | 07.25          | 86.45          | 00.8411  | 33745       | (divos) & dasen                         | eliivbnomys                |
| 01.0          | 78.8811           | 88.T18              | 9E.1          | 0.000129                | 18.88          |              | 33.62          | 24.58          | 00.852   | 133745      | (divos) & doseri                        | eliivbnomys                |
|               | 43.10             | 18.281<br>18.285    | 101.1         | 01:000.0<br>0:000.0     | 76.06<br>71.56 | <u> </u>     | 32.14          | 24.58          | 343.00   | 133745      | (rituos) S doseri                       | elivbnomy                  |
|               |                   |                     | · · ·         | 371000 U                | 26 06          | -            | ≥€.0€          | 89.42          | 201.00   | 247881      | (dluos) & dosen                         | elivbnomyr                 |
| 90.0          | 16.1275           | 0P*PZ9S             | 160           | S#0000°0                | TT. BE         |              | 97.3E          | 24.75          | 00.8411  | 810961      | (dhuos) & doest                         | eliivbriomys               |
|               | 1417.20           | AT.6501             | 06.1          | 2110000                 | 10.4E          |              | 96.66<br>97.30 | 24.75          | 928.00   | 135048      | (disca) & doesn                         | elivbromy                  |
|               | SE.08             | 8E.88S              | 1.29          | E\$1000.0               | 32.35          |              | EE.SE          | 24.75          | 343.00   | 810851      | (rituos) & ricean                       | elivbromy:                 |
| 60.0          | 81.8 <del>4</del> | 80.581              | 01.1          | BE1000.0                | 88.0£          |              | ₱\$:0€         | 24.75          | 201.00   | 810961      | (rituas) & ricean                       | eliivbnomyt                |
|               |                   |                     |               |                         |                |              |                |                |  |             |   |                            |
|               | SE.888A           | 99.8227             | 87.0          | SE00000.0               | €8.8€          |              | 58.35          | 54.96          | 00.8411  | 136620      | (rituos) & ribaen                       | Hilybromyr                 |
|               | BE.5081           | 266.96              | 61.1          | 660000'0                | 34.17          |              | 34.15          | 54.96          | 00.852   | 136620      | (rituos) & froner                       | elivbnomyt                 |
|               | 71.Eh             | 60,681<br>86,885    | 01.1<br>85.1  | 851000.0<br>S11000.0    | 92.58          |              | 32.55          | 24.96          | 00.EME   | 136620      | (duos) & does                           | egjApuouiás                |
|               |                   | LO 601              | 01.1          | 0.1000                  | 30.77          | <del> </del> | \$7.0E         | 24.96          | 201.00   | 136620      | (rituos) & ricasen                      | elivbromy                  |
| <b>\$</b> 0.0 | TT.8212           | 86.8048             | 69.0          | <b>420000</b> .0        | 88.2E          | -            | 36.86          | \$1.2S         | 00.8411  | 136026      | (миое) 2 (зопар)                        | sii vbriomys               |
|               | 77.782S           | £8.5891             | 10,1          | ₽40000.0                | 34.29          |              | 34.28          | 25.14          | 528.00   | 138056      | reach 3 (south)                         | Symondyille                |
|               | 99'05             | DE.883              | 9Z.1          | O+1000.0                | 87. SE         |              | 32.76          | 26.14          | CO.EAE   | 138026      | (dinos) & doesn                         | eliivbriomys               |
| 60.0          | 43.25             | 18.681              | 60°L          | <b>TE1000.0</b>         | 76.0E          |              | \$6.0€         | 25.14          | 50,102   | 138026      | reach & (south)                         | elitybriomys               |
|               |                   |                     |               |                         |                |              |                |                |  | 1 1 14 1 14 |   | www.i.j                    |
| <b>≯</b> 0.0  | 78.4712           | 88.1638             | 79.0          | 6.000023                | 36.85          |              | 35.92          | SE.32          | 1148.00  | 9708C1      | (rituos) & ribaen                       | ellivbriomyz               |
| 01.0<br>70.0  | 50.56<br>2804.25  | 289.58              | 78.0          | 390000.0                | 04.4E          | <u> </u>     | 6£.4£          | 26.32          | 00.828   | 9708E1      | (rhuos) & riosen                        | •Mvbromyz                  |
| 60.0          | 25.54<br>43.32    | S8.481<br>88.985    | 100.1<br>72.1 | 8E1000.0                | 31.15          |              | 31.15          | 25.32          | 343.00   | 970861      | (rituos) 6 riosen                       | elivonomy:<br>elivonomy:   |
|               | -                 |                     | -             | 3373000                 |                | <del></del>  | 31.16          | CC AC          | 201.00   | 920961      | (divoe) E dosen                         | -livinomyr                 |
| <b>₽</b> 0.0  | 78.0SS            | <b>≯6.88</b> 78     | 99.0          | SZ0000.0                | 96'9E          |              | 96'90          | 15.85          | 1148.00  | 139474      | (unos) & uoesi                          | egyapuouda                 |
|               | 86.S00£           | 2635.85             | 16.0          | <b>490000</b> 0         | 67 PE          | †            | 34.48          | 15.55          | 00.828   | 139474      | (diuos) & dosen                         | Amoughtie                  |
|               | Q1.78E            | 36.35               | 127           | 961000.0                | 93.19          |              | 33.17          | 15.25          | 00.EAE   | 138474      | (rance) & riceen                        | elivbromy:                 |
| 60.0          | 9C.CA             | 76. <del>1</del> 81 | 60.1          | ₽E1000.0                | TE.1E          |              | 25.15          | 15.85          | 201.00   | 1296CT      | (ntruce) 6 rhosen                       | elävbnomye                 |
|               |                   |                     |               |                         |                |              |                |                |  | 2 2 2       | to Mar Jalyanov                         | -Apple of April            |
|               | 01.8858           | 08.0268             | <b>\$9.0</b>  | \$50000.0               | 86.2E          |              | 86.35          | 26.65          | 1148.00  | 199011      | (duos) & dosen                          | ellivbriomys               |
|               | 3155.32           | 18.4875             | 78.0          | Z90000'0                | 34.56          |              | 34.55          | 25.65          | 628.00   | 199001      | (diuce) & doesn                         | • Mivbnoritys              |
| 90.0<br>01.0  | 96.64<br>90.798   | 86.275              | 1.25          | 561000.0                | ₽E.EE          |              | 33.32          | 52.65          | 343.00   | 189071      | (rituos) & ribsen                       | ellivbromy                 |
|               | UE EF             | EE.281              | 80.1          | AE1000.0                | 31.52          | <u> </u>     | 08.15          | 25.65          | 201.00   | 188051      | (divos) & doesn                         | elivbronty                 |
| <b>10</b> .0  | 60,5688           | 90.4458             | 78.0          | 0.000023                | 10.85          |              | 10.00          | 25.82          | 00.0211  |             | (Incor) c                               |                            |
| 80.0          | 17.899£           | 2335.94             | 80.1<br>58.0  | \$80000.0               | 10.05          |              | S8.AE<br>10.8E | 28.82<br>S8.82 | 528.00   | 141900      | (rituos) & ribaen<br>(rituos) & ribaen  | eliivbromys<br>eliivbromys |
| Ot.D          | 99'0S             | 08.072              | 127           | 0.000136                | 13.55          | <del></del>  | 84.EE          | 28.82          | 00.848<br>00.852                                 | 141900      | (rituos) B ribees<br>(rituos) B ribees  | aliivbromys                |
|               | 86.61             | 185.28              | 80.1          | AE1000.0                | 99.16          |              | ₹8,1E          | 28.82          | 201.00   | 008171      | (dinos) 8 facility)                     | aliivbriomys               |
| 60.0          |                   |                     |               |                         |                | +            |                |                |  | 1           |   | N. d. manage               |
| <b>60 0</b>   | (a)               | (ft ps)             | (aVI)         | (HVI)                   | ( <b>u</b> )   | (H)          | (H)            | (14)           | (cta)  | 12 Com 1.00 | and a second                            | Salary Salar               |

|   | Plan: PIN C      |                  | பாக்பு)            | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev          | E.G. Slope           | Vei Chnl     | Flow Area         | Top Width                             | Froude # Chl |
|---|------------------|------------------|--------------------|----------------|----------------|--|--------------------|----------------------|--------------|-------------------|---------------------------------------|--------------|
| River   | Reach            | River Sta        | Q Total<br>(cfs)   | MET CITES      | (H)            | (ft)   | (ft)               | (fVft)               | (ft/a)       | (eq ft)           | TOP WHATEL                            | riodde # Cit |
| raymondville                                  | reach 3 (south)  | 121629           | 1148.00            | 23.01          | 35.20          |  | 35.21              | 0.000053             | 1.06         | 6309.06           | 6500.00                               | 0.06         |
|   |                  |                  |                    |                |                |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 3 (south)  | 120128           | 201.00             | 22.81          | 28.26          |  | 28.28              | 0.000174             | 1.19         | 168,50            | 41.81                                 | 0.10         |
| raymondville                                  | reach 3 (south)  | 120128           | 343.00             | 22.81          | 30.00<br>31.55 |  | 30.03 <sup>1</sup> | 0.000175<br>0,000192 | 1.39<br>1.61 | 247.19<br>327.63  | 48.76<br>54.96                        | 0.11<br>0.12 |
| raymondville<br>raymondville                  | reach 3 (south)  | 120128           | 528.00<br>1148.00  | 22.81<br>22.81 | 35.12          |  | 35.13              | 0.000061             | 1.14         | 5753.77           | 6500.00                               | 0.12         |
| tayiioitovaa                                  | react o (soun)   | 12012            |                    |                |                |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 3 (south)  | 120078           | 201.00             | 22.80          | 28.25          |  | 28.28              | 0.000174             | 1,19         | 168.55            | 41.81                                 | 0.10         |
| raymondville                                  | reach 3 (south)  | 120078           | 343.00             | 22.80          | 29.99          |  | 30.02              | 0.000175             | 1.39         | 247.25            | 48.76                                 | 0.11         |
| raymondville                                  | reach 3 (south)  | 120078           | 528.00             | 22.80          | 31.54          |  | 31.58              | 0.000192             | 1.61         | 327.65            | 54.97                                 | 0.12         |
| raymondville                                  | reach 3 (south)  | 120078           | 1148.00            | 22.80          | 35.11          |  | 35.12              | 0.000061             | 1.14         | 5732.18           | 6500,00                               | 0.07         |
| raymondville                                  | reach 3 (south)  | 118101           | 201.00             | 22.55          | 27.89          |  | 27.92              | 0.000188             | 1.23         | 163.99            | 41.38                                 | 0.11         |
| raymondville                                  | reach 3 (south)  | 118101           | 343.00             | 22.55          | 29.63          |  | 29.66              | 0.000186             | 1.42         | 241.95            | 48.33                                 | 0.11         |
| raymondville                                  | reach 3 (south)  | 118101           | 528.00             | 22.55          | 31.15          |  | 31.19              | 0.000205             | 1.65         | 319.70            | 54.38                                 | 0.12         |
| raymondville                                  | reacts 3 (south) | 118101           | 1148.00            | 22.55          | 34.97          |  | 34.99              | 0.000078             | 1.29         | 4824.11           | 6380.85                               | 0.08         |
| raymondville                                  | reach 3 (south)  | 118051           | 201,00             | 22.54          | 27.88          |  | 27.91              | 0.000188             | 1.23         | 164.01            | 41.38                                 | 0.11         |
| raymondville                                  | reach 3 (south)  | 118051           | 343.00             | 22.54          | 29.62          |  | 29.65              | 0.000186             |              | 241.98            | 48.33                                 | 0.11         |
| raymondville                                  | reach 3 (south)  | 118051           | 528.00             | 22.54          | 31.14          |  | 31.18              | 0.000205             | 1.65         | 319.68            | 54.38                                 | 0.12         |
| raymondville                                  | reach 3 (south)  | 118051           | 1148.00            | 22.54          | 34.97          |  | 34.98              | 0.000078             | 1.29         | 4799.08           | 6364.95                               | 0.08         |
| \$ \$2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \    | 1.32             |                  |                    |                |                |  |                    |                      |              |                   |                                       | ļ            |
| raymondville                                  | reach 3 (south)  | 116902           | 201.00             |                | 27.66          |  | 27.69<br>29.44     | 0.000198             | 1.25<br>1.44 | 161,04<br>238,68  | 41.09<br>48.06                        | 0.11         |
| raymondville<br>raymondville                  | reach 3 (south)  | 116902           | 343.00<br>528.00   | <del></del>    | 29.40<br>30.89 |  | 29.44<br>30.94     | 0.000193             | 1.68         | 238.68<br>314.68  | 54.01                                 | 0.11         |
| raymondville                                  | reach 3 (south)  | 116902           | 1148.00            |                |                |  | 34.88              |                      | 1.39         | 4182.47           | 5963.98                               |              |
| 1 1 6 6 7 7 A                                 |                  |                  |                    |                |                |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 3 (south)  | 114860           | 201.00             |                | 27.23          |  | 27.25              | 0.000225             | 1.31         | 153.86            | 40.38                                 | 0.12         |
| raymondville                                  | reach 3 (south)  | 114860           | 343.00             |                | 28.99          | ļ  | 29.03              | +                    | •            | 231.56            | 47.46<br>53.20                        | 0.12         |
| raymondville                                  | reach 3 (south)  | 114860           | 528.00<br>1148.00  |                |                |  | 30.48<br>34.66     | 0.000236             |              | 303.74<br>2101.85 | 2554.83                               | 0.13         |
| reymondville                                  | reach 3 (south)  | 114600           | 1140.00            | 22.13          | 04.02          |  | 54.00              | 0.000100             | 1.70         | 2101.00           | 2554.00                               | 0.10         |
| raymondville                                  | reach 3 (south)  | 113007           | 201.00             | 21.88          | 26.77          |  | 26.80              | 0.000261             | 1.38         | 145.82            | 39.58                                 | 0.13         |
| raymondville                                  | reach 3 (south)  | 113007           | 343.00             | 21.88          | <del></del>    | <del>+</del>                                     | 28.62              | 0.000230             |              | 224.05            |                                       |              |
| raymondville                                  | reach 3 (south)  | 113007           | 528.00             | <del></del>    |                |  | 30.02              | 0.000262             |              | 292.45            |                                       |              |
| raymondville                                  | reach 3 (south)  | 113007           | 1148.00            | 21.88          | 34.27          |  | 34.34              | 0.000217             | 2.07         | 554.88            | 69,56                                 | 0.13         |
| raymondville                                  | reach 3 (south)  | 112058           | 201.00             | 21.76          | 26.51          |  | 26.54              | 0.000292             | 1.43         | 140.17            | 39.00                                 | 0.13         |
| raymondville                                  | reach 3 (south)  | 112058           | 343.00             |                |                |  | 28.40              |                      |              | 219.09            | <del></del>                           | <del>+</del> |
| raymondville                                  | reach 3 (south)  | 112058           | 528.00             | 21.76          | 29.71          |  | 29.76              | 0.000280             | 1.85         | 285.18            | 51.78                                 | 0.14         |
| raymondvilla                                  | reach 3 (south)  | 112058           | 1148.00            | 21.78          | 34.06          |  | 34.13              | 0.000223             | 2.09         | 548.62            | 69.20                                 | 0,13         |
|   |                  | ļ                |                    | D4 75          | 00.50          |  | 26.53              | 0.000293             | 1 44         | 120.00            | 38.98                                 | 0.13         |
| raymondville                                  | reach 3 (south)  | 112008           | 201.00<br>343.00   |                |                |  | 28.39              |                      |              | 139.96<br>218.98  | · · · · · · · · · · · · · · · · · · · | <del></del>  |
| raymondville                                  | reach 3 (south)  | 112008           | 528.00             | <del></del> -  |                |  | 29,74              |                      |              | 284.95            | 51.76                                 |              |
| raymondville                                  | reach 3 (south)  | 112008           | 1148.00            |                |                |  | 34.12              | 0.000224             | 2.09         | 548.53            | 69.20                                 | 0.13         |
|   | . Die ameirië,   |                  |                    |                |                |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 3 (south)  | 110270           | 201.00             |                |                |  | 25.94<br>27.93     |                      |              | <del></del>       | +                                     |              |
| raymondville<br>raymondville                  | reach 3 (south)  | 110270           | 343.00<br>528.00   |                | <del>,</del>   |  | 29.22              |                      |              |                   |                                       | <del></del>  |
| raymondville                                  | reach 3 (south)  | 110270           | 1148.00            |                | <del></del>    | <del></del>                                      | 33.72              |                      | +· ··        |                   |                                       | +            |
| V1 1 98 - 39                                  |                  | rating(          |                    |                |                |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          | 109185           | 827.00             | +              |                |  | 25.76              |                      |              | <del>-</del>      | 86.90                                 | ·            |
| raymondville                                  | reach 1          | 109185           | 1346.00            |                |                |  | 27.73              |                      | ·····        |                   | -                                     | •            |
| raymondville                                  | reach 1          | 109185           | 1918.00<br>5312.00 |                |                |  | 33.20              |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          |                  | 55,2,00            | ,,,,,,         | 1              |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          | 109050           | 827.00             |                |                |  | 25.74              |                      |              | <del></del>       |                                       |              |
| raymondville                                  | reach 1          | 109050           | 1346.00            |                |                | +  | 27.70              |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          | 109050           | 1918.00<br>5312.00 |                |                |  | 28.92<br>33.13     |                      | <del></del>  | <del></del>       | <del></del>                           |              |
| raymondville                                  | reach 1          | 109050           | 5312.00            | 17.48          | , 32.07        |  | 33.13              | 3.000341             | 4.10         | 1205.00           | 119.5                                 | 5.22         |
| raymondville                                  | reach 1          | 108145           | 827.00             | 17.35          | 25.65          | 5  | 25.68              | 0.000134             | 1.46         | 568,18            | 87.24                                 | 0.10         |
| raymondville                                  | reach 1          | 108145           | 1346.00            |                |                | 3  | 27.64              |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          | 108145           | 1918.00            | +              |                | <del>                                     </del> | 28.83              |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          | 108145           | 5312.00            | 17.35          | 32.63          | 1  | 32.90              | 0.00055              | 3 4.17       | 1275.27           | 115.19                                | 9 0.22       |
| raymondville                                  | reach 1          | 107740           | 827.00             | 17.35          | 25.59          | ,  | 25.63              | 3 0.00013            | 7 1.47       | 563.34            | 87.02                                 | 2 0.10       |
| raymondville                                  | reach 1          | 107740           | 1346.0             |                |                |  | 27.5               |                      |              | •                 | +                                     | <del>-</del> |
| raymondville                                  | reach 1          | 107740           | 1918.0             | 17.35          | 28.66          |  | 28.74              |                      | +            |                   |                                       | -            |
| raymondville                                  | reach 1          | 107740           | 5312.0             | 17.35          | 32.39          |  | 32.67              | 0.00058              | 8 4.26       | 1247.2            | 114.2                                 | 0.25         |
|   |                  | 100570           | 007.0              | 17.16          | 25.43          | 19.35  | 25.4               | 7 0,00013            | 5 1.46       | 5 566.12          | 2 87.1!                               | 5 0.10       |
| raymondville<br>raymondville                  | reach 1          | 106578<br>106578 | 827.00<br>1346.00  |                |                |  |                    |                      |              |                   |                                       |              |
| raymondville                                  | reach 1          | 106578           | 1918.0             | <del></del>    |                | +  |                    |                      | 1            |                   |                                       |              |
| raymondville                                  | reach 1          | 106578           | 5312.00            |                |                |  |                    |                      |              |                   | <del>)</del>                          |              |
|   |                  |                  |                    |                |                |  | ļ <u> </u>         |                      |              |                   |                                       | -            |
| raymondville                                  | reach 1          | 106370           | 827.0              |                |                |  |                    |                      | +            |                   |                                       |              |
| raymondville                                  | reach 1          | 106370           | 1346.0             |                | <del></del>    |  |                    |                      | <del>,</del> | +                 | +                                     |              |
| raymondville<br>raymondville                  | reach 1          | 106370           | 5312.0             |                |                |  |                    |                      |              |                   | +                                     |              |
| LATITATION                                    | 1                | 1.557.5          | 1 30,2.0           | T              |                |  |                    |                      |              |                   |                                       |              |
| Bartier 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                  |                  |                    |                |                |  |                    |                      |              |                   |                                       |              |

HEC PAS Plan: P 10 D 2 (Continued)

| HEC DAS                      | Plan: P 10 1<br>Reach   | River Sta                               | DUACI)             | Min Ch El      | W.S. Elev              | Crit W.S. | E.G. Elev      | E.G. Slope           | Vel Chnl     | Flow Area          | To lende   |              |
|------------------------------|-------------------------|---|--------------------|----------------|------------------------|-----------|----------------|----------------------|--------------|--------------------|--|--------------|
|                              | gledek en en ski        |   | (cfs)              | (h)            | (#)                    | (ff)      | (N)            | (iVit)               | (five)       | (8q ft)            | Top Width  | Froude # Chl |
| raymondvilla                 | reach 1                 | 105922.*                                | 1346.00            | 17.06          | 27.21                  | 19.93     | 27.27          | 0.000164             | 1.80         | 748.19             | 96.63  | 0.11         |
| raymondville                 | reach 1                 | 105922.*                                | 1918.00            | 17.06          | 28.23                  | 20.58     | 28.31          | 0.000233             | 2.27         | 846.55             | 100.91   | 0.14         |
| raymondville                 | reach 1                 | 105922.*                                | 5312.00            | 17.06          | 31.14                  | 23.47     | 31.47          | 0.000746             | 4.58         | 1159.24            | 114.55   | 0.25         |
|                              |                         | 1 11 22 11 44                           |                    |                |                        |           |                |                      |              |                    |  |              |
| raymondville<br>raymondville | reach 1                 | 105474.*                                | 827.00<br>1346.00  | 16.99          | 25.28                  | 19.18     | 25.31          | 0.000133             | 1.45         | 571.18             | 88.23  | 0.10         |
| raymondville                 | reach 1                 | 105474.                                 | 1918.00            | 16.99<br>16.99 | 27.14                  | 19.87     | 27.19          | 0.000166             | 1.81         | 742.50             | 95.93  | 0.11         |
| raymondville                 | reach1                  | 105474                                  | 5312.00            | 16.99          | 30,77                  | 23.41     | 31.12          | 0.000238             | 2.29<br>4.75 | 838.53<br>1116.17  | 99.99<br>112.65                                  | 0.14<br>0.27 |
| 77 8 A.Berta.                | Salah Salah Salah Salah | 7 Q1 9                                  |                    | 10.00          | 30.77                  | 20.4.1    | 51.12          | 0.00000              |              | 1116.11            | 112.03   | 0.27         |
| raymondville                 | reach 1                 | 105028.*                                | 827.00             | 16.91          | 25.22                  | 19.09     | 25.25          | 0.000133             | 1.45         | 570.89             | 87.78  | 0.10         |
| raymondville                 | reach 1                 | 105026.*                                | 1346.00            | 16.91          | 27.08                  | 19.78     | 27.12          | 0.000166             | 1.82         | 739.73             | 95.28  | 0,12         |
| raymondville                 | reach 1                 | 105026.*                                | 1918.00            | 16.91          | 28.01                  | 20.44     | 28.09          | 0.000242             | 2.31         | 831.54             | 99.12  | 0.14         |
| raymondville                 | reach 1                 | 105028.*                                | 5312.00            | 16.91          | 30.35                  | 23.33     | 30.73          | 0.000698             | 4.94         | 1074.61            | 108.64   | 0.28         |
|                              |                         |   |                    |                |                        |           |                |                      |              |                    |  |              |
| raymondville                 | reach 1                 | 104578                                  | 827.00             | 16.84          | 25,16                  | 19.02     | 25.19          | 0.000133             | 1.45         | 570.04             | 87.33  | 0.10         |
| raymondville                 | reach 1                 | 104578                                  | 1346.00            | 16.84          | 26.99                  | 19.72     | 27.04          | 0.000168             | 1.83         | 736.43             | 94.64  | 0.12         |
| raymondville                 | reach 1                 | 104578                                  | 5312.00            | 16.84          | 27.90<br>29.88         | 23.26     | 27.98<br>30.30 | 0.000247<br>0.001015 | 2.33<br>5.17 | 824.10<br>1026.96  | 98,28<br>108,22                                  | 0.14         |
| in in Sec                    | 1507                    |   | 5012.50            | 70.04          | 23.00                  | 23.20     | 30.30          | 0.001013             | 3.17         | 1020.80            | 100.22   | 0.29         |
| raymondville                 | reach 1                 | 102128                                  | 827.00             | 16.43          | 24.84                  |           | 24.87          | 0.000127             | 1.43         | 578.13             | 87.70  | 0.10         |
| raymondville                 | reach 1                 | 102128                                  | 1346.00            | 16.43          | 26.68                  |           | 26.70          | 0.000109             | 1.31         | 1751.96            | 1078.38  | 0.09         |
| raymondville                 | reach 1                 | 102128                                  | 1918.00            | 16.43          | 27.61                  |           | 27.63          | 0.000086             | 1.28         | 2884.02            | 1361.48  | 0.08         |
| raymondville                 | reach 1                 | 102128                                  | 5312.00            | 16.43          | 29.47                  |           | 29.49          | 0.000129             | 1.82         | 7340.68            | 3365.50  | 0.11         |
| l                            | 18,200 and 1            | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | <u></u> - -        |                |                        |           |                |                      |              |                    |  |              |
| raymondville                 | reach 1                 | 100815                                  | 827.00             | 16.19          | 24.67                  | 18.36     | 24.70          | 0.000108             | 1.28         | 644.35             | 103.43   | 0.09         |
| raymondville<br>raymondville | reach 1<br>reach 1      | 100615                                  | 1346.00            | 16.19          | 28.54                  | 19.04     | 26.58          | 0.000085             | 1.34         | 1674.24            | 991.38   |              |
| raymondville                 | reach 1                 | 100615                                  | 5312.00            | 16.19          | 27.48<br>29.29         | 19.68     | 27.50<br>29.31 | 0.000077<br>0.000105 | 1.38         | 2936.25<br>7852.34 | 1657.85<br>3463.26                               | 0.08         |
| 7                            |                         | 1                                       | W12.00             | (0.18          | 25.25                  | cc.46     | 29.31          | 0.000105             | 1.62         | / 632.34           | 3403.26  | 0.10         |
| raymondville                 | reach 1                 | 100117                                  | 827.00             | 16.10          | 24.61                  | 18.28     | 24.64          | 0.000122             | 1.41         | 586,42             | 88.06  | 0.10         |
| raymondville                 | reach 1                 | 100117                                  | 1346.00            | 16.10          | 26,48                  | 18.97     | 26.51          | 0.000122             | 1.39         | 1517.40            | 882.59   | 0.10         |
| raymondville                 | reach 1                 | 100117                                  | 1918.00            | 16.10          | 27.43                  | 19.63     | 27.45          | 0.000106             | 1.42         | 2486.21            | 1237.31  | 0.09         |
| raymondville                 | reach 1                 | 100117                                  | 5312.00            | 16.10          | 29.22                  | 22.53     | 29.25          | 0.000165             | 2.05         | 6974.73            | 4312.94  | 0.12         |
|                              | 1.0                     |   |                    | •              |                        |           |                |                      |              |                    |  |              |
| raymondville                 | reach:1                 | 98117                                   | 827.00             | 15.78          | 24.38                  |           | 24.41          | 0.000117             | 1.39         | 594.44             | 88.44  | 0.09         |
| raymondville                 | reach 1                 | 96117<br>96117                          | 1346.00<br>1918.00 | 15.78          | 26.36                  |           | 26.37          | 0.000043             | 0.83         | 4188.95            | 3514.62  | 0.06         |
| raymondville                 | reach 1                 | 96117                                   | 5312.00            | 15.78<br>15.78 | 27.37                  |           | 27.37<br>29.17 | 0.000018             | 0.59         | 8051.94            | 4385.51  | 0.04<br>0.04 |
| - Cyniciansis                | 100011                  | 30117                                   | 3312.00            | 15.70          | 23.10                  |           | 29.17          | 0.00019              | 0.70         | 16979.52           | 5489.39  | 0.04         |
| raymondville                 | reach 1                 | 96117                                   | 827.00             | 15.45          | 24.15                  |           | 24.18          | 0.000112             | 1.37         | 603.39             | 88.84  | 0.09         |
| raymondville                 | reach 1                 | 98117                                   | 1346.00            | 15.45          | 26.19                  |           | 26.22          | 0.000148             | 1.35         | 1648.21            | 1964.63  | 0.10         |
| raymondville                 | reach 1                 | 96117                                   | 1918.00            | 15.45          | 27.30                  |           | 27.31          | 0.000070             | 1.05         |                    | 3581.17  | 0.07         |
| raymondville                 | reach 1                 | 96117                                   | 5312.00            | 15.45          | 29.11                  |           | 29.11          | 0.000049             | 1.04         | 12059.08           | 5516.12  | 0.06         |
|                              |                         |   |                    |                |                        |           |                |                      |              |                    |  |              |
| rzymondville                 | reach 1                 | 96341                                   | 827.00             | 15.32          | 24.08                  |           | 24.10          | 0.000088             | 1.16         | <del> </del>       | 115.46   | 0.08         |
| raymondville                 | reach 1                 | 95341                                   | 1346.00            | 15.32          | 26.10                  |           | 26.12          | 0.000107             | 1.30         | 1360.53            | 1372.97  | 0.09         |
| raymondville<br>raymondville | reach 1                 | 95341<br>95341                          | 1918.00<br>5312.00 | 15.32<br>15.32 | 27. <b>24</b><br>29.08 |           | 27.25<br>29.07 | 0.000076             | 1.22<br>1.26 | 3446.18            | 3254.44<br>5641.49                               |              |
| Тарпопала                    | TOWAL !                 | 1001                                    | 3572.00            | 10.00          | 25.00                  |           | 28.01          | 0.000060             | 1.20         | 11381.66           | 3041,48  | 0.07         |
| raymondville                 | reach 1                 | 94117                                   | 827.00             | 15.12          | 23.95                  |           | 23.98          | 0.000106             | 1.34         | 615.23             | 89.37  | 0.09         |
| raymondville                 | reach 1                 | 94117                                   | 1346.00            | 15,12          | 25.93                  |           | 25.97          | 0.000150             | 1.54         | 1071.58            |  | 0.11         |
| raymondville                 | reach 1                 | 94117                                   | 1918.00            | 15.12          | 27.11                  |           | 27.14          | 0.000123             | 1.56         | 2401.23            | 2023.47  | 0.10         |
| raymondville                 | reach 1                 | 94117                                   | 5312.00            | 15.12          | 28.95                  |           | 28.97          | 0.000120             | 1.78         | 7881.64            | 3656.03  | 0.10         |
| <b> </b>                     | <u> </u>                | 1 2 2 2 2                               |                    |                |                        |           |                |                      |              |                    | <u> </u>   |              |
| raymondville                 | reach 1                 | 92117<br>92117                          | 827.00<br>1346.00  | 14.79          | 23.75                  | 16.97     | 23.76          | 0.000101             | 1.32         | 626.82             | 89.89  | 0.09         |
| raymondville                 | reach 1                 |   |                    |                | 25.60                  | 17.66     | 25.64          | 0.000172             |              | 897.28             | 316.33   |              |
| raymondville                 | reach 1                 | 92117                                   | 1918.00<br>5312.00 | 14.79          | 26.81                  | 18.32     | 26.85<br>28.58 | 0.000160             | 1.75         | 1516.30<br>3851.74 | 870.45<br>2097.59                                |              |
|                              | 1800                    | 1 1 1 1 1 1                             |                    | .49            |                        |           | 20.00          | V. V. V. V.          | 2.00         | 5551.74            | 2.307.30   | 1            |
| raymondville                 | reach 1                 | 90057                                   | 827.00             | 14.45          | 23.55                  |           | 23.58          | 0.000095             | 1.29         | 639.38             | 90.45  | 0.09         |
| raymondville                 | reach 1                 | 90057                                   | 1346.00            | 14.45          | 25.23                  |           | 25.27          | 0.000189             |              | 870.97             | 439.18   |              |
| raymondville:                | reach 1                 | 90057                                   | 1918.00            | 14.45          | 26.51                  |           | 26.55          | 0.000136             | 1.60         |                    |  |              |
| raymondville                 | reach 1                 | 90057                                   | 5312.00            | 14.45          | 28.11                  |           | 28,13          | 0.000140             | 1.85         | 7994.44            | 4843.90  | 0.11         |
|                              |                         | 00000                                   |                    |                |                        |           |                |                      |              | <u> </u>           |  |              |
| raymondville                 | reach t                 | 90018                                   | 827.00             | 14.45          | 23.55                  |           | 23.57          | 0.000095             |              | 639.04             | 90.43  |              |
| raymondville<br>raymondville | reach 1                 | 90018                                   | 1346.00            | 14.45          | 25.22<br>26.51         |           | 25.27<br>26.54 | 0.000189             |              | 867.67<br>2277.87  | 437.70<br>2067.17                                |              |
| raymondville                 | reach 1                 | 90018                                   | 5312.00            | 14.45          | 28.10                  | +         | 28.13          | 0.000137             | 1.86         | 7964.90            |  | +            |
| -                            |                         |   |                    |                |                        |           | 20.10          | 0.000141             | 1.30         |                    | -340.01  | 5.11         |
| raymondville                 | reach 1                 | 88117                                   | 827.00             | 14.14          | 23.37                  |           | 23.40          | 0.000090             | 1.27         | 651.25             | 90.97  | 0.08         |
| raymondville                 | reach 1                 | 88117                                   | 1346.00            | 14.14          | 24.92                  |           | 24.97          | 0.000134             |              | 797.13             | <del>                                     </del> | -            |
| raymondville                 | reach 1                 | 88117                                   | 1918.00            | 14.14          | 26.22                  |           | 26.26          | 0.000158             |              | 2445.44            |  |              |
| raymondville                 | reach 1                 | 88117                                   | 5312.00            | 14.14          | 27.93                  |           | 27.94          | 0.000074             | 1.34         | 10945.49           | 5809.53  | 0.06         |
|                              | <b></b>                 |   | <b></b> _          |                |                        |           |                |                      |              |                    | ļ  | <b>.</b>     |
| raymondville                 | reach 1                 | 86117                                   | 1371.00<br>2190.00 | 13.81          | 23.01                  |           | 23.08          | 0.000251             | 2.11         | 648.42             | 90.85  |              |
| raymondville<br>raymondville | reach 1                 | 86117<br>88117                          | 3160.00            | 13.81<br>13.81 | 24.36<br>25.72         | 18.53     | 24.48<br>25.78 | 0.000384             | 2.83<br>2.39 | 774.74<br>3132.94  | 96.25<br>3309.31                                 | <del></del>  |
| raymondville                 | reach f                 | 88117                                   | 7333.00            | 13.81          | 27.78                  | 10.53     | 27.79          | 0.000330             |              | 13695.05           |  |              |
|                              |                         | The Talent                              | , 5,00,000         | ,5,01          | 21.10                  |           | 27.19          | 0.000018             | 1.39         | 15083.03           | 0.00.00  | 0.00         |
| raymondville                 | reach 1                 | 84790                                   | 1371.00            | 13.59          | 22.67                  |           | 22.74          | 0.000260             | 2.13         | 643.29             | 91.74  | 0.14         |
| raymondville                 | reach 1                 | 84790                                   | 2190.00            | 13.59          | 23.82                  |           | 23.95          | 0.000425             |              | 751.24             |  |              |
| raymondville :               | reach 1                 | 84790                                   | 3160.00            | 13.59          | 24.98                  |           | 25.19          | 0.000589             |              |                    |  |              |
| raymondville                 | reach 1                 | 84790                                   | 7333.00            | 13.59          | 26.67                  | 21.34     | 27.42          | 0.001638             | 6.99         | 1214.10            | 2112.74  | 0.40         |

| River                        | Plan: P 10 F<br>Reach | River Sta      | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.   | E.G. Elev      | E.G. Slope           | Vel Chrif    | Flow Area          | Top Width         | Froude # Chil |
|------------------------------|-----------------------|----------------|--------------------|----------------|----------------|-------------|----------------|----------------------|--------------|--------------------|-------------------|---------------|
| 生物源/学者的                      |                       | <b>水黄</b> 300分 | (cfe)              | (ft)           | (ft)           | (#)         | (ft)           | (R/h)                | (ft/e)       | (sq ft)            | <b>(ft)</b>       |               |
|                              |                       | 47 9 9 3 W     |                    |                |                |             |                |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 84693.8*       | 1371.00            | 13.57          | 22.64          |             | 22.71          | 0.000265             | 2.13         | 645.06             | 93,83             |               |
| raymondville                 | reach 1               | 84693.8*       | 2190.00            | 13.57          | 23.77          |             | 23.90          | 0.000435             | 2.90         | 753.95             | 99.37             | 0.19          |
| raymondville<br>raymondville | reach 1               | 84693.8*       | 3160.00<br>7333.00 | 13,57<br>13,57 | 24.92<br>26.50 | 21.33       | 25.13<br>27.24 | 0.000602<br>0.001886 | 3.62<br>6.93 | 871.79<br>1362.03  | 105.04<br>2828.58 | 0.22          |
| K SAGAK                      |                       | 0.000,0        | 700.00             | 10.57          | 20.00          | 41.00       | 27.24          | 0.001000             | 0.50         | 1302.00            | . 2020.50         | 0.40          |
| raymondville                 | reach 1               | 84597.7*       | 1371.00            | 13.56          | 22.62          |             | 22.69          | 0,000272             | 2.13         | 643.45             | 95.20             | 0.14          |
| raymondville                 | reach 1               | 84597.7*       | 2190.00            | 13.56          | 23.72          |             | 23.86          | 0.000450             | 2.91         | 752.54             | 101.81            | 0.19          |
| raymondville                 | reach 1               | 84597.7*       | 3160.00            | 13.56          | 24.86          |             | 25.06          | 0.000827             | 3.63         | 871.54             | 108.57            | 0.23          |
| raymondville                 | reach 1               | 84597.7*       | 7333.00            | 13.56          | 26.33          | 21.32       | 27.05          | 0.001945             | 6.87         | 1560.22            | 3518.05           | 0.40          |
|                              |                       | 84501.51       | 1271.00            | 12.54          | 22.50          |             | 22.60          | 0.0000277            | 214          | 040.00             | 00.47             | 0.45          |
| raymondville<br>raymondville | reach 1               | 84501.5"       | 1371.00            | 13.54<br>13.54 | 22.59<br>23.68 |             | 22.66          | 0.000277             | 2.14         | 640.05<br>748.04   | 95.17<br>103.39   | 0.15          |
| raymondville                 | reach 1               | 84501.5*       | 3160.00            | 13.54          | 24.79          |             | 24.99          | 0.000661             | 3.64         | 867.41             | 111.78            |               |
| raymondville                 | reach 1               | 84501.5*       | 7333.00            | 13.54          | 26.20          | 21.29       | 26.84          | 0.001913             | 6.64         | 1989.91            | 4307.82           |               |
| JAN KARATAN                  |                       | 1955, F77 UF   |                    |                |                |             |                |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 84405.4*       | 1371.00            | 13.53          | 22.56          |             | 22.84          | 0.000273             | 2.16         | 635.66             | 92.49             | 0.14          |
| raymondville                 | reach 1               | 84405.4*       | 2190.00            | 13.53          | 23.63          |             | 23.77          | 0.000486             |              | 740.28             | 103.41            | 0.19          |
| raymondville                 | reach t               | 84405.4*       | 3160.00            | 13.53          | 24.71          |             | 24.92          | 0.000708             |              | 857.90             | 114.45            |               |
| raymondville                 | reach 1               | 64405.4*       | 7333.00            | 13.53          | 26.19          |             | 26.62          | 0.001527             | 5.82         | 2936.28            | 4335.64           | 0.35          |
| raymondville                 | reach 1               | 84309.2*       | 1371.00            | 13,51          | 22.54          |             | 22.61          | 0.000268             | 2.16         | 634.06             | 90.47             | 0.14          |
| raymondville                 | reach 1               | 84309.2*       | 2190.00            | 13.51          | 23.59          |             | 23.73          | 0.000481             | 2.99         |                    | 99.37             |               |
| raymondville                 | reach 1               | 84309.2*       | 3160.00            | 13.51          | 24.64          |             | 24.85          | 0.000756             |              | 844.98             | 115.68            |               |
| raymondville                 | reach 1               | 84309.2*       | 7333.00            | 13.51          | 26.17          |             | 26.44          | 0.001149             | 4.95         | 3885.62            | 4353,23           |               |
|                              | 4,800 1,60            | 2223           |                    |                |                |             |                |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 84213.1*       | 1371.00            | 13.50          | 22.51          |             | 22.58          | 0.000270             | 2.17         | 632.07             | 90,27             |               |
| raymondville                 | reach 1               | 84213.1*       | 2190.00            | 13.50          | 23.54          |             | 23.68          | 0.000461             | 3.01         | 727.04             | 94.40             |               |
| raymondville<br>raymondville | reach 1               | 84213.1*       | 3160.00<br>7333.00 | 13.50<br>13.50 | 24.56<br>26.13 |             | 24.79<br>26.32 | 0.000771             | 3.81         | 828.51<br>4758.88  | 111.51<br>5532.88 |               |
| rayiiloisavaro               | Jean I                | O-LIG.         | 7555.00            | 10.50          | 20.10          |             | 20.04          | 0.00000              | 7.40         | 4733.50            | 3302.00           | 0.20          |
| raymondville                 | reach 1               | 84117          | 1371,00            | 13.48          | 22.49          |             | 22.56          | 0.000272             | 2.17         | 630.84             | 90.07             | 0.14          |
| raymondville                 | reach 1 '             | 84117          | 2190.00            | 13.48          | 23.49          |             | 23.64          | 0.000467             | 3.03         | 723.75             | 94.11             |               |
| reymondville                 | reach 1               | 84117          | 3160.00            | 13.48          | 24.48          |             | 24.72          | 0.000682             | 3.86         |                    | 98.07             |               |
| raymondville                 | reach 1               | 84117          | 7333.00            | 13.48          | 26.10          |             | 26.21          | 0.000721             | 3.72         | 5788.26            | 6000.00           | 0.24          |
|                              |                       |                |                    | 40.40          | 00.04          |             |                | 0.000004             |              |                    |                   |               |
| raymondville<br>raymondville | reach 1               | 83617.*        | 1371.00            | 13.40          | 22.34          |             | 22.42          | 0.000281             | 2.19         |                    |                   |               |
| raymondville                 | reach 1               | 83617.*        | 3160,00            | 13.40          | 24.05          |             | 24.29          | 0.001067             |              |                    |                   |               |
| raymondville                 | reach 1               | 83817.*        | 7333.00            | 13.40          | 25.71          |             | 25.84          | 0.000739             |              | 5219.68            |                   |               |
| 3 3 3 3 3                    |                       | 5.5            | 100000             |                |                |             |                |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 83117.1        | 1371.00            | 13.31          | 22.19          |             | 22.26          | 0.000294             | 2.21         | 619.80             | 91.87             | 0.15          |
| raymondville                 | reach 1               | 63117.*        | 2190.00            | 13.31          | 22.96          |             | 23.10          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 63117.*        | 3160.00            | 13.31          | 23.58          |             | 23.79          | 0.000928             |              |                    |                   | ·             |
| raymondville                 | reach 1               | 83117.*        | 7333.00            | 13.31          | 25.31          |             | 25.46          | 0.000794             | 4.07         | 4709.03            | 4407.34           | 0.26          |
| A 101-                       |                       | 82617.*        | 1371.00            | 13.23          | 22.04          |             | 22.10          | 0.000354             | 2.07         | 792.45             | 508.81            | 0.16          |
| raymondville<br>raymondville | reach 1               | 82617.*        | 2190.00            | 13.23          | 22.70          |             | 22.79          | 0.000499             |              |                    | 650.20            |               |
| raymondville                 | reach 1               | 82617.*        | 3160.00            | 13.23          | 23.26          |             | 23.39          | 0.000628             | +            |                    | 1088.69           |               |
| raymondville                 | reach 1               | 82617.*        | 7333.00            | 13.23          | 25.00          |             | 25.10          | 0.000585             | 3.58         | 4636.53            | 2287.35           | 0.22          |
|                              |                       |                |                    |                |                |             |                |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 82117          | 1371.00            | 13.15          | 21.93          |             | 21.96          |                      |              |                    | 646.56            |               |
| raymondville                 | reach 1               | 82117          | 2190.00            | 13.15          | 22.54          |             | 22.59          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 82117<br>82117 | 3160.00<br>7333.00 | 13.15<br>13.15 | 23.05<br>24.79 |             | 23.12          | 0.000384             |              | 2380.79<br>5435.76 |                   |               |
| - TANKING                    | rvavii i              | J              | 7333,00            | 13.15          | 24.73          |             | 2.4.00         | 3.000384             | 5.00         | 3400.70            | 22,0.10           | 3.10          |
| raymondville                 | reach 1               | 80117          | 1371.00            | 12.82          | 21.70          |             | 21.71          | 0.000084             | 0.98         | 3365.99            | 3096.26           | 3 0.00        |
| raymondville                 | reach 1               | 80117          | 2190.00            | 12.82          | 22.31          |             | 22.32          |                      |              |                    | 4007.7            | 0.0           |
| raymondville                 | reach 1               | 80117          | 3160.00            |                | 22.84          |             | 22.85          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 80117          | 7333.00            | 12.82          | 24,64          |             | 24.64          | 0.000042             | 0.94         | 17158.06           | 5895.9            | 7 0.00        |
| mumber 4 arts                |                       | 79415          | 1371.00            | 12.71          | 21.53          |             | 21.61          | 0.000293             | 2.23         | 614.31             | 89.33             | 0.1           |
| raymondville<br>raymondville | reach 1               | 79415          | 2190.00            |                | 22.01          |             | 22.19          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 79415          | 3160.00            |                | 22.38          |             | 22.70          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 79415          | 7333.00            |                | 22.85          |             |                |                      |              |                    |                   |               |
|                              | 1-12-5-               | 1 11, 111      |                    |                |                |             |                |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 78117          | 1371.00            |                | 21.38          |             | 21.39          |                      | ·            |                    |                   |               |
| raymondville                 | reach 1               | 78117          | 2190.00            |                | 21.91          |             | 21.92          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 78117          | 7333.00            |                | 22.36<br>23.62 |             | 22.37          |                      |              |                    |                   | +             |
| raymondville                 | reach 1               | 78117          | 7333.00            | 12,50          | 23.02          | <del></del> | 23.63          | 0.00073              | 1.20         | 1-1202.40          | 3001.50           | 0.00          |
| raymondville                 | reach 1               | 76117          | 1371.00            | 12.17          | 21.26          |             | 21.26          | 0.000048             | 0.80         | 4666.25            | 4195.5            | 7 0.0         |
| raymondville                 | reach 1               | 76117          | 2190.00            |                | 21.82          |             | 21.82          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 76117          | 3160.00            | 12.17          | 22.26          |             | 22.27          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 76117          | 7333.00            | 12.17          | 23.50          |             | 23.51          | 0.000056             | 1.07         | 15524.59           | 6000.0            | 0.0           |
| 44 1.                        | 1 1 1 1 1 1 1         | 1              |                    |                |                |             |                |                      |              |                    | J                 | -             |
| raymondville                 | reach 1               | 74240          | 1371.00            |                | 21.17          |             | 21.17          |                      |              |                    |                   | 4             |
| raymondville                 | reach 1               | 74240          | 2190.00            |                | 21.74          |             | 21.74          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 74240<br>74240 | 7333.00            |                |                |             | 23.40          |                      |              |                    |                   |               |
| raymondville                 | reach 1               | 14640          | /333.00            | 11.86          | 23.40          | -           | 23.40          | 0.000056             | 1.00         | 13010.78           | 0000.0            | - 0.0         |
| raymondville                 | reach 1               | 74117          | 1371.00            | 11.84          | 21.18          |             | 21.17          | 0.000048             | 0.80         | 4453.67            | 4230.9            | в 0.0         |
|                              | reach 1               | 74117          | 2190.00            |                | 21.73          |             | 21.74          |                      |              |                    |                   |               |

HEC-DAS Plan: P 10 D 2 (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnt River Sta Q Total Flow Area Top Width Froude # Chi (cfs) (ft) (11) (ft) **(ft)** (IVII) (aq ft) **(ft)** raymondville reach 1 74117 3160.00 11.84 22.17 22.18 0.000045 0.87 8874 34 4853.03 0.06 raymondville each 1 74117 7333.00 11.84 23.39 23.40 0.000057 1.09 15270.59 6000.00 0.07 raymondville reach 1 71592 1371.00 11 42 21.07 21.07 0.000050 0.63 4466.29 4150.90 0.06 raymondvi reach 1 71592 2190.00 11.42 21.65 21.66 0.000041 0.80 6922.96 4208.83 0.06 raymondville 71592 reach 1 3160.00 11.42 22.09 22.09 0.000046 0.89 8790.24 4645.15 0.06 raymondville reach 1 71592 7333.00 11.42 23,28 23.28 0.000062 1.15 14731.73 6000,00 0.07 raymondville arch 1 69075 1521.00 11.01 20.90 20.91 0.000084 1.09 3589.03 3351.95 0.08 reach 1 raymondville 89075 2332.00 11.01 21.53 21.53 0.00005B 0.96 6499.59 4919.41 0.07 raymondville reach 1 69075 3398.00 11.01 21.95 21.95 0.00005 8594.35 1.02 4972.21 0.07 reach 1 69075 8244.00 11.01 23.10 0.000074 15457.29 1.26 6000,00 0.08 raymondville reach 1 1521.00 10.64 20.66 20.68 0.000103 1.20 3474 58 4275.02 0.09 raymondville reach 1 88802 2332.00 10.64 5141.63 21.39 21.39 0.000055 0.94 6910.42 0.06 raymondville reach 1 3398.00 10.64 21.81 21.82 0.000055 0.98 9096.34 5182.81 0.07 6802 raymondville reach 1 8244.00 10.64 22.92 22.93 0.000074 1.26 15591.25 6000.00 0.08 raymondville 1521.00 reach 1 64802 10.31 20.35 20.39 0.000207 1.67 2065.32 3883.66 0.12 reach 1 raymondville 64802 2332.00 10.31 21.25 21.26 0.000077 1.12 5952.01 5435.63 0.08 raymondville 3398.00 10.31 8261.99 21.67 21.68 0.000072 1,13 5477.12 80.0 raymondville reach 1 84802 8244.00 10.31 22.75 22.76 0.000091 1.40 14526.00 6000.00 0.09 raymondviile reach 1 62802 1521.00 9.98 19.87 19.95 0.000235 2.13 712.53 93,63 0.14 raymondville reach 1 62802 2332.00 9.98 21.10 21.11 0.000077 1.13 6242.48 6000,00 0.08 raymondville reach 1 62802 3398.00 9.98 21.54 21.54 0.000087 1.09 8880 38 6000,00 0.07 raymondville 8244.00 62802 9.98 22.57 22.58 0.000083 1.34 15104.05 6000.00 0.08 raymondville reach 1 61180 1521.00 9.65 19.38 19,45 0.000251 2.18 697.19 92.96 0.14 raymondville reach 1 61180 2332.00 9.65 20.73 20.82 0.000300 2.57 1620.55 2278,69 0.18 raymondville reach 1 81180 3398.00 9.65 21.16 21.25 2.75 0.000479 2881.60 3497.14 0.19 raymondville reach 1 61180 8244.00 9.65 22.21 22.26 0.000418 2.84 8093 00 0.18 each 1 61130 1521.00 raymondville 19.37 19.44 0.000251 2.18 696.95 92.95 0.14 raymondville osach 1 61130 2332.00 9.64 20.72 20.81 0.000302 1603.45 2.58 2254.83 0.18 raymondville reach 1 61130 3398.00 9 84 0.000494 21.15 21.23 2.79 2818.39 3441.80 0.19 raymondville reach 1 61130 8244.00 9.64 22.18 22.23 2.91 7907.46 6000.00 0.19 raymondväle reach 1 607.77 1521.00 9.58 19.28 19.35 D 000254 2.19 694 22 92.84 0.14 60777 2332.00 9.58 20.71 20.73 0.000127 1.42 5038.73 6000 00 0.10 raymondville each 1 60777 3398.00 21.13 21.14 0.000104 1.34 7521.30 6000 00 0.09 raymondville reach 1 60777 8244.00 22.13 22.14 1.55 13559.97 0.000116 6000.00 0.10 58786 raymondvilk reach 1 1521.00 9.26 18.75 18 83 0.000275 2.25 674.74 92.00 0.15 raymondville reach 1 58786 2332.00 9.26 20.21 20.30 0.000423 2.51 2067.51 6000.00 0.18 raymondville 58788 3398.00 9.26 20.84 20.86 0.000188 1.79 5822.96 6000.00 0.12 raymondville reach 1 58786 8244.00 9.26 21.85 21.87 0.000168 1.85 11907.01 6000.00 0.12 raymondville reach 1 58696 1521 00 8 92 18.14 18.22 0.000307 649.64 2.34 90.91 0.15 raymondvil reach 1 2332.00 8.92 19.21 19.36 0.000478 3,11 749.59 95.20 0.20 raymondville reach 1 0.000807 3398.00 8.92 19.86 13 85 20.13 4.18 812.36 97.80 0.26 raymondville reach 1 8244.00 8.92 21.26 21.31 0.000450 2.92 8306.02 6000.00 0.19 raymondville reach 1 58844 1521.00 8,91 18.12 18.20 0.000308 649.28 90.89 0.15 2.34 raymondville reach 1 58844 2332 00 8.91 19.18 19.33 0.000481 748.10 3.12 95.14 0.20 raymondville reach 1 58644 3398.00 8.91 19.82 20.10 97.70 0.000814 4.20 609.65 0.26 raymondvilk reach 1 8244.00 8.91 21.23 21.29 0.000475 8132.34 2.99 6000.00 0.19 raymondville reach 1 56166.2 1521.00 8.83 17.97 18.05 0.000317 2.37 642.85 90.60 0.16 raymondville reach f 56166.21 2332.00 6.63 18.99 19.11 0.000422 2.90 1220.24 1012.00 0.18 raymondville reach 1 56166.21 3398.00 8.83 19 82 19.75 0.000505 1996.71 3.28 1343.97 0.20 raymondvilk reach 1 56166.2 8244.00 8.83 21.04 21.08 0.000393 2.70 8572.80 6000.00 0.18 56688.5\* raymondville reach 1 1521.00 8.75 17.69 17.93 0.000187 1 82 1526.66 996.71 0.12 reach 1 raymondville 55688.5 2332.00 8.75 18.95 18.98 0.000150 1.74 2779.04 1313.21 0.11 ravmondville reach 1 55668 5\* 3398 00 8 75 19.59 1.94 0.000176 3661.55 2847.80 0.12 raymondville reach 1 55688.51 8244.00 8.75 20.90 20.92 0.000251 2.15 9427.63 0.14 5561.22 raymondville reach 1 55210.7 1521.00 8.67 17.86 17.87 0.000058 1.02 3033.08 1273.06 0.07 reach 1 55210.7 2332.00 8.67 18,92 18.93 0.000050 1.00 4421.35 1345.95 0.08 raymondville reach 1 55210.7 3398.00 19.53 19.53 0.00006 1.19 5660.42 3307.37 0.07 raymondville reach t 55210.7 B244.00 8.67 20.82 20.83 11047.82 0.000148 1,65 4720.22 0.11 raymondville reach 1 54733 1594.00 8.59 17 70 11.76 17 BD 0.000352 2.49 640.41 0.16 90.49 raymondville reach 1 54733 2439.00 8.59. 18.69 12.85 18.86 0.000560 3.33 731.98 94.46 0.21 raymondville reach 1 54733 3552.00 8.59 19.09 13.65 19.42 0.001028 4.61 769.95 96.05 0.29 each 1 54733 8639.00 9.59 17.13 20.45 20.65 0.001334 4.85 4826.39 4363.21 0.32 raymondville reach 1 54238 1594 00 8.51 17.52 17.62 0.000372 2.52 632.42 0.17 135.21 raymondville reach 1 54238. 2439.00 8.51 18.48 18.57 0.000525 2.68 1616.72 1734.45 0.20 54238 raymondville reach 1 3552.00 8.51 18.84 18.95 0.000671 3.15 2311.99 2079 38 0.22 raymondvišla reach 1 54238. 9639.00 8.51 20.00 20.12 0.000814 3.90 5161.67 2897.14 0.25

| Pilver   | Reach  | River Sta            | Q Total            | Min Ch El    | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope                            | Vel Chal     | Flow Area                             | Top Width                             | Froude # Chl                            |
|--|--|----------------------|--------------------|--------------|----------------|----------------|----------------|---------------------------------------|--------------|---------------------------------------|---------------------------------------|---|
|  |  |                      | (cfs)              | (h)          | (ff)           | (ft)           | (ft)-          | (IVII)                                | (tva)        | (8q ft)                               | (h)                                   |   |
| aymondville  | reach 1  | 53743.*<br>53743.*   | 1594.00<br>2439.00 | 8.43         | 17.44          |                | 17.47          | 0.000194                              | 1.57         | 2018,08                               | 1686.66                               | 0.12                                    |
| aymondville<br>aymondville   | reach 1<br>reach 1   | 53743.*              | 3552.00            | 8.43<br>8.43 | 18.43<br>18.76 |                | 18.44<br>18.78 | 0.000115<br>0.000163                  | 1.35<br>1.66 | 3941.02<br>4676.87                    | 2177.46<br>2305.75                    | 0.09                                    |
| aymondville  | reach 1  | 53743.*              | 8639.00            | 8.43         | 19.81          |                | 19.85          | 0.000163                              | 2.58         | 7361.67                               | 2808.14                               | 0.11                                    |
| dymondyna<br>2000 - San San San San San San San San San San  |  |                      | 0000.00            | 0.40         | 10.01          |                | 10.03          | 0.000323                              | 2.30         | 7001.07                               | 2000.14                               | 0.10                                    |
| aymondville  | reach 1  | 53248.*              | 1594.00            | 8.35         | 17.43          |                | 17.43          | 0.000040                              | 0.77         | 4384.53                               | 2112.68                               | 0.06                                    |
| aymondville  | reach 1  | 53248.*              | 2439.00            | 8.35         | 18.42          |                | 18.42          | 0.000031                              | 0.76         | 6591.10                               | 2379.52                               | 0.05                                    |
| aymondville  | reach 1  | 53248.*              | 3552.00            | 8.35         | 18.73          |                | 18.74          | 0,000050                              | 0.98         | 7350.30                               | 2461.28                               | 0.06                                    |
| aymondville  | reach 1  | 53248.*              | 8639.00            | 8.35         | 19.73          |                | 19.75          | 0.000134                              | 1.75         | 10073.13                              | 2905.95                               | 0.11                                    |
|  |  |                      |                    |              |                |                |                |                                       |              |                                       |                                       |   |
| raymondville   | reach 1  | 52753                | 1371.00            | 8.27         | 17.42          |                | 17.42          |                                       | 0.38         | 6989.21                               | 2284.21                               | 0.03                                    |
| eymondville<br>eymondville   | reach 1<br>reach 1   | 52753<br>52753       | 2015.00<br>3073.00 | 8.27<br>8.27 | 18.41<br>18.72 |                | 18.41<br>18.72 | 0.000008                              | 0.41<br>0.58 | 9410.21                               | 2641.54                               | 0,03                                    |
| raymondville   | reach 1-   | 52753                | 8046.00            | 8.27         | 19.70          |                | 19.71          | 0.000015                              | 1.18         | 10250.79<br>13065.15                  | 2733.04<br>3018.20                    | 0.04<br>0.07                            |
| <b>-</b>   |  |                      |                    | 0.27         | 70.10          |                | 10.71          | 0.000033                              |              | 10003.13                              | 3010.20                               | 0.07                                    |
| raymondville   | reach 1  | 52344.3*             | 1371.00            | 8.20         | 17.40          |                | 17.40          | 0.000014                              | 0.46         | 5826.43                               | 2270.57                               | 0.03                                    |
| aymondville  | reach 1  | 52344.3*             | 2015.00            | 8.20         | 18.40          |                | 18.40          |                                       | 0,48         | 8331.89                               |                                       | 0.03                                    |
| raymondville   | reach 1  | 52344.3*             | 3073.00            | 8.20         | 18.71          |                | 18.71          | 0.000022                              | 0.66         | 9177.68                               | 2756.02                               | 0.04                                    |
| aymondville  | reach 1  | 52344.3*             | 8046.00            | 8.20         | 19.67          |                | 19.68          | 0.000072                              | 1.30         | 11955.01                              | 3051.69                               | 0.08                                    |
|  |  |                      |                    |              |                |                |                |                                       |              |                                       |                                       |   |
| raymondville   | reach 1  | 51935.7*             | 1371.00            | 8.13         | 17.39          |                | 17.39          | 0.000024                              | 0.57         | 4824.24                               | 2285.94                               | · · · · · · · - · · · · - · · · · · · · |
| raymondville   | reach 1  | 51935.7*             | 2015.00<br>3073.00 | 8.13         | 18.39          |                | 18.39          | 0.000017                              | 0.54         | 7285.54                               |                                       | 0.04                                    |
| aymondville<br>avmondville   | reach 1  | 51935.7*<br>51935.7* | 8046.00            | 8.13<br>8.13 | 18.69<br>19.62 |                | 18.69<br>19.64 | 0.000030                              | 0.74<br>1.44 | 8103.77<br>10817.39                   | 2744.61<br>3078.76                    | 0.05                                    |
| · · · I · · · · · · · · · · · · · · · ·  | I EACH 1   | 171994               | 30,00              | 0.13         | 15.02          |                | 13.04          | 0.000097                              | 1.44         | 10017.39                              | 30/8.76                               | 0.09                                    |
| nsymondville   | reach 1  | 51527.1*             | 1371.00            | 8.07         | 17.38          |                | 17.38          | 0.000030                              | 0.73         | 4119.83                               | 1860.27                               | 0.05                                    |
| raymondville   | reach 1  | 51527.1*             | 2015.00            | 8.07         | 18,38          |                | 18.38          |                                       | 0.60         | 6306.96                               |                                       | 0.04                                    |
| rsymondville   | reach 1  | 51527.1*             | 3073.00            | 8.07         | 18.67          |                | 18.68          | 0.000042                              | 0.81         | 7067.32                               | · · · · · · · · · · · · · · · · · · · | 0.06                                    |
| raymondville   | reach 1  | 51527.1*             | 8048.00            | 8.07         | 19.57          |                | 19.58          | 0.000133                              | 1.59         | 9647.98                               |                                       |   |
|  |  |                      |                    |              |                |                |                |                                       |              |                                       |                                       |   |
| raymondville   | reach 1  | 51118.5*             | 1371.00            | 8.00         | 17.36          |                | 17.37          | 0.000026                              | 0.69         | 4086.76                               | 1                                     |   |
| raymondville   | reach 1  | 51118.5*             | 2015.00            | 8.00         | 18.37          |                | 18.37          | 0.000024                              | 0.69         | 5815.32                               |                                       | +                                       |
| raymondville<br>raymondville   | reach 1  | 51118.5°             | 3073.00<br>8046.00 | 8.00<br>8.00 | 18.65<br>19.50 |                | 18.66<br>19.52 | 0.000044                              | 0.95         | 6346.35<br>8472.96                    | <del></del>                           | <del>†</del>                            |
| aynorayaa  | 1000-117   | 31116.0              | 3040.00            | 0.00         | 15.50          |                | 15.32          | 0.000775                              | 1.72         | 5472.90                               | 3000.78                               | 0.12                                    |
| raymondville   | reach 1  | 50710                | 1371.00            | 7.93         | 17.26          | 10.83          | 17.33          | 0.000238                              | 2.08         | 660.40                                | 91.37                                 | 0.14                                    |
| raymondville   | reach 1  | 50710                | 2015.00            | 7.93         | 18.21          | 11.56          | 18.32          | 0.000358                              | 2.69         | 749.13                                |                                       | <del></del>                             |
| raymondville   | reach 1  | 50710                | 3073.00            | 7.93         | 18.33          | 12.59          | 18.59          | 0.000797                              | 4.04         | 760.68                                | 95.66                                 | 0.25                                    |
| raymondville   | reach 1  | 50710                | 8046.00            | 7.93         | 19.43          | 16.11          | 19.46          | 0.000168                              | 1.96         | 7959.98                               | 2102.81                               | 0.12                                    |
| e de di Steller III i degle<br>Handa di Steller III de di Steller III de di Steller III de di Steller III de di Steller III de di Steller II | , de la composition della comp | 1                    |                    |              |                |                |                |                                       |              |                                       |                                       |   |
| raymondville   | reach 1  | 50308.01             | 1371.00            | 7,86         | 17.16          | 10.77          | 17.23          | 0.000241                              | 2.09         | 657.30                                |                                       | 0.14                                    |
| ellivbnomya  | reach 1  | 50308.0*             | 2015.00            | 7.88         | 18.06          | 11.49          | 18.17          | 0.000369                              | 2.72         | 741.10                                | -                                     | <del></del>                             |
| raymondville<br>raymondville   | reach 1  | 50308.0*<br>50308.0* | 3073.00<br>8046.00 | 7.86<br>7.86 | 18.46<br>19.37 | 12.52<br>16.04 | 18.46          |                                       | 1.00         | 6199,75<br>8053,51                    | 1923.36                               |   |
| Zymonavare   | (Pact)   | 30300.0              | 5040.00            | 7.00         | 19.57          | 10.04          | 15.08          | 0.000165                              | 1.54         | 8033.31                               | 2133.02                               | 0.12                                    |
| raymondville   | reach 1  | 49906,0*             | 1371.00            | 7.80         | 17.05          | 10.70          | 17.12          | 0.000245                              | 2.10         | 653.48                                | 91.06                                 | 0.14                                    |
| raymondville   | reach 1  | 49906.0*             | 2015.00            | 7.80         |                | 11.43          | 18.01          | 0.000383                              | 2.76         | 731.36                                |                                       | 1                                       |
| raymondvilla   | reach 1  | 49908.0*             | 3073.00            |              |                | 12.46          | 18.44          |                                       |              | <del> </del>                          | ·                                     | <del></del>                             |
| aymondville  | reach 1  | 49906.0"             | 8046.00            | 7.80         | 19.30          | 15.98          | 19.32          | 0.000167                              | 1.96         | 8163.19                               | 2235.80                               | 0.12                                    |
|  |  | \$936 NF4 2          |                    |              |                |                |                |                                       |              |                                       |                                       |   |
| rsymondville   | reach 1  | 49504.0*             | 1371.00            |              | 16.95          | 10.64          | 17.02          | 0.000249                              | 2.11         | 650.40                                |                                       |   |
| raymondville   | reach 1  | 49504.0"             | 2015.00            |              | 17.73          | 11.36          | 17.85          | 0.000397                              | 2.79         |                                       | <del></del>                           |   |
| raymondville   | reach 1  | 49504.0*             | 3073.00            | 7.73         | 18.42          | 12.39          | 18.43          | 0.000042                              | 0.94         |                                       | +                                     | +                                       |
| raymondville   | reach 1  | 49504.0*             | 8046.00            | 7.73         | 19.23          | 15,91          | 19.25          | 0.000170                              | 1.97         | 8321.41                               | 2394.13                               | 0.12                                    |
| raymondville   | reach 1  | 49102.0*             | 1371.00            | 7.67         | 16,85          | 10.57          | 16.92          | 0.000253                              | 2.12         | 646,68                                | 90.78                                 | 0,14                                    |
| raymondville   | reach 1  | 49102.0*             | 2015.00            |              | 17.56          | 11.30          | 17.68          |                                       |              | +                                     | +                                     | <del></del>                             |
| raymondville   | reach 1  | 49102.0*             | 3073.00            |              |                | 12.33          |                |                                       |              |                                       | <del></del>                           |   |
| raymondville   | reach 1  | 49102.0*             | 8046.00            |              | 19.16          | 15.85          |                |                                       |              |                                       |                                       | <del> </del>                            |
|  | ofference in   | L                    |                    |              |                |                |                |                                       |              |                                       |                                       | 1                                       |
| raymondville   | reach 1  | 48700                | 1371.00            | •            |                | 10.50          | <del></del>    |                                       |              |                                       |                                       | <del>}</del>                            |
| eymondville  | reach 1  | 48700                | 2015.00            |              |                | 11.23          |                |                                       | 2.87         |                                       |                                       | <del></del>                             |
| aymondville  | reach 1  | 48700<br>48700       | 3073.00            |              |                | 12.26          | <del> </del>   | · · · · · · · · · · · · · · · · · · · | 4.08         | +                                     |                                       | +                                       |
| aymondville  | reach 1  | 46700                | 8046.00            | 7.60         | 19.09          | 15.78          | 19.11          | 0.000167                              | 1,61         | 8690.41                               | 2509.00                               | 0.11                                    |
| raymondville   | reach 1  | 48516.6*             | 1371.00            | 7.57         | 16.70          | 10.48          | 16,77          | 0.000258                              | 2.14         | 641.82                                | 90.57                                 | 0.14                                    |
| aymondville  | reach 1  | 48516.6*             | 2015.00            |              | 17.30          | 11.20          |                |                                       | 2.89         |                                       |                                       |   |
| aymondville  | reach 1  | 48516.6*             | 3073.00            |              |                | 12.24          | +              | •                                     | 4.16         |                                       |                                       |   |
| aymondville  | reach 1  | 48518.6*             | 8045.00            |              |                | 15.75          |                | •                                     |              |                                       |                                       | +                                       |
|  | Section 1  |                      |                    |              |                |                |                |                                       |              |                                       |                                       | ļ                                       |
| aymondville  | reach 1  | 48333.3*             | 1371.00            |              |                | 10.45          |                |                                       |              |                                       |                                       |   |
| aymondville  | reach 1  | 48333.3*             | 2015.00            |              |                | 11.17          |                | <del></del>                           | <del>)</del> |                                       |                                       |   |
| aymondville  | reach 1  | 48333.3*             | 3073.00            |              |                | 12.21          |                |                                       |              | · · · · · · · · · · · · · · · · · · · |                                       |   |
| aymondville  | reach 1  | 48333.3*             | 8046.00            | 7.54         | 19.03          | 15.72          | 19.05          | 0.000174                              | 1.71         | 8822.46                               | 2917.7                                | 0.12                                    |
| raymondville   | reach 1  | 48150                | 1371.00            | 7.51         | 16.60          | 10.41          | 16.67          | 0.000262                              | 2.15         | 638.62                                | 90.4                                  | 0.14                                    |
| aymondville<br>aymondville   | reach 1  | 48150                | 2015.00            |              |                | 11.14          | +              | <del></del>                           |              |                                       | · · · · · · · · · · · · · · · · · · · |   |
| aymondville  | reach 1  | 48150                | 3073.00            | <del></del>  |                | 12.18          |                |                                       |              |                                       |                                       |   |
| aymondville  | reach 1  | 48150                | 8046.00            |              |                | 15.69          |                |                                       | <del></del>  | <del> </del>                          |                                       |   |
| ,  | John Comme   |                      |                    | T            |                |                |                | 1                                     |              | 2.04.12                               |                                       | 1                                       |
| aymondville  | reach 1  | 47686.*              | 1371.00            | 7.43         | 16.47          | 10.34          | 18.54          | 0.000270                              | 2.16         | 634.53                                | 91.00                                 | 0.14                                    |
| aymondville  | reach 1  | 47686.*              | 2015.00            |              |                | 11,06          | 17.00          | 0.000727                              | 2.98         | 676.00                                | 2251.8                                | 0.20                                    |
| aymondville  | reach 1  | 47686.*              | 3073.00            | 7.43         | 17.41          | 12.10          | 17.43          | 0.000151                              | 1.44         | 4572.13                               | 2375.0                                | 7 0,1                                   |

2AC Plan: P In D 2 (Continued)
Reach River Ste Q Total W.S. Elev E.G. Slope Min Ch El Crit W.S. E.G. Elev Vel Chnl Flow Area Top Width Froude # Chi River (ft) (ft/ft) (f/s) (fi ps) (cla) (ft) (ft) (ft) (M) 8046.00 0.000197 47886 7 43 18 88 15.61 18.90 1 91 R745 52 3502 23 0.13 raymondville raymondville reach 1 0.16 47222. 1371.00 7.36 16.32 10.27 16.39 0.000380 2.12 648.17 1925.73 0.11 raymondville reach 1 47222. 2015.00 7.36 16.79 10.99 16.81 0.000163 1.47 3030.06 2109.78 4248.54 7.36 2548.32 0.12 3073.00 17.31 12.03 17.33 0.000177 1.62 raymondville reach 1 47222. 0.13 raymondville 47222 8046.00 7.36 18.76 16.20 18.79 0.000212 2.04 8656.79 3758.23 raymondville reach 1 48758 \* 1371.00 7 2B 16.28 10 19 16 29 0.000104 1 16 2271 10 1372.62 0.09 each t 48758. 2015.00 7.28 16.72 10.92 16.74 0.000128 1.35 2988.58 1892.16 0.10 raymondville reach 1 46758. 3073.00 7.28 17.20 11.95 17.23 0.000186 1.72 4086.60 2491.04 0.12 7.28 0.000215 8755.33 3735.30 0.13 raymondville reach 1 46758. 8046.00 18.65 16.02 18.67 2.11 raymondville 1371.00 7.21 16.24 10.12 16.25 0.000087 0.97 2741.84 1540.1B 0.07 each 1 each 1 46294 2015.00 7.21 16 67 10.84 16.68 0.000089 1.17 3441.32 1798.32 0.08 raymondville raymondville 48204 · 3073.00 7 21 17.13 11.87 17.15 0.000123 1.44 4418 32 2286.00 0.10 reach 1 48294. 8046.00 7.21 18.54 15.51 18.56 0.000211 2.14 8955.45 3764.40 0.13 aymondville each 1 1371.00 7.13 16,22 10.03 16.23 0.000040 0.7B 3450.89 1847.00 0.05 raymondville reach 1 1998.90 45830 2015.00 7.13 16.64 10.76 16.65 0.000056 0.97 4253.00 0.07 raymondville reach 1 raymondville 3073.00 7,13 17.09 11.79 17.10 0.000085 1.24 5191.62 2378.96 0.08 reach 1 45830 raymondville each 1 45830 8046.00 7.13 18,45 15.00 18.47 0.000194 2.11 9245.56 3723.06 0.13 45414 7.06 9.97 3434.95 1902.30 0.06 1371.00 16.20 16.20 0.000041 0.80 raymondville reach 1 45414. 2015.00 7.06 16.61 10.69 16.62 0.000058 0.99 4258.82 2060.68 0.07 raymondville reach 1 0.000085 2275.59 3073.00 17.05 11.72 17.08 1.24 5190.74 0.08 raymondville raymondville 45414. 8046.00 18.38 15.00 18.40 0.000180 2.03 9532.92 3775.49 0.12 reach 1 7.06 raymondville 0.06 1371.00 16.18 16.18 0.000045 0.83 3447.50 2021.19 reach 1 44998. 6.99 9.90 16.58 10.62 16.59 0.000059 1.00 4281.50 2117.91 0.07 44996. 2015.00 6.99 raymondvillé reach 1 3073.00 17.01 0.000095 1.31 5289.67 2696.00 0.09 6.99 raymondville reach 1 15.00 18.33 0.000169 1.96 9676.82 4187.12 0.12 raymondville 14996. 8046.00 6.99 18.31 reach 1 3487.35 2094.72 reach 1 44582. 1371,00 6.93 16.15 9.84 16.15 0.000046 0.85 0.06 2690.33 0.07 0.000071 4395.10 raymondville reach t 44582. 2015.00 6.93 16.55 10.56 16.56 1.09 16.99 5589.80 2889.88 0.09 raymondville 0.000094 1.31 6.93 16.98 11.59 reach 1 3073.00 4439.05 0.11 18.25 15.00 18.27 0.00015 10662.29 8046.00 6.93 raymondville reach 1 raymondville 44100 1371.00 6.86 16.12 9.77 16.13 0.000054 0.92 3807.04 2714.63 0.06 each 1 raymondville reach 1 44188 2015.00 6.86 16.52 10.49 16.53 0.000063 1.03 4711.58 2810,19 0.07 0.08 reach 1 44166. 3073.00 6.88 16.94 11.52 16.95 0.000081 1.22 6072.25 3760.95 11517.38 4438,84 0.10 raymondville 1.68 18.20 15.00 0.000125 reach 1 44106. 8046.00 6.86 18.22 16.10 0.000045 0.84 4017.84 3409 B1 0.06 43750 1371.00 6.79 16.09 9.69 raymondville reach 1 2015.00 6.79 18.49 10.42 16,50 0.000051 0.92 5413.31 3608,37 0.06 43750 reach 1 raymondvilk mach 1 43750 3073 00 6.79 16 90 11 45 16.91 0.000071 1.14 6977.78 3997.25 0.08 0.09 4438.86 reach 1 43750 8046.00 6.79 18.15 15.00 18.17 0.000100 1.51 12375.11 raymondville 43313.8 1371.00 16.06 16.07 0.000061 0.96 3509.33 3337.31 0.07 6.72 ravmondville reach 1 43313.6 0.000087 1.05 4908.83 3656.74 0.07 2015.00 6.72 16.46 16.47 reach 1 raymondvil 3073.00 6.72 16.86 16.87 0.000086 1.24 6488 22 3976.48 0.08 reach 1 43313.6 raymondvitle raymondville reach 1 43313.61 8046.00 6.72 18.11 18:12 0.000115 1.59 11848.53 4447.71 0.10 0.08 1.12 3364.1B 16.02 2983.26 42877.2 1371.00 6.65 16.03 0.000086 aymondville reach 1 3805,94 0.09 16.42 16.43 0.000096 1.24 6.65 raymondville reach 1 42877.2 2015.00 0.000107 16.83 5960 79 3935.98 0.09 42877.2 3073.00 16.82 1 38 raymondville 6.65 18.05 1B.07 0.000134 1.70 11287.19 4472.08 0.11 raymondville 0.10 1.35 3168.60 raymondville 15.96 2439.26 6.57 0.000129 reach 1 42440.6 1371,00 15.98 0.10 42440.8 6.57 18.36 16.38 0.000125 1.39 3898.30 3723.31 2015,00 raymondville reach 1 0.000138 1.52 5388.05 3847.26 0.10 42440.8 3073.00 16.77 raymondville reach 1 6.57 17.98 18.00 0.000159 1.83 10687.71 4525.27 0.11 42440.8 reach 1 2598.39 0.11 raymondville 0.000170 1.52 1908.34 reach 1 42004.4 1371.00 6.50 15.88 15.91 0.11 1.60 3333.77 3696.15 raymondville 0.000171 6.50 16.29 16.32 reach 1 42004.4 2015,00 3749 RA 0.12 6.50 16.68 0.000184 1.72 4760.46 raymondville reach 1 42004.4 3073,00 17.92 2.04 10189.06 5415.63 0.13 42004.4 8046.00 6.50 17.90 0.000204 raymondville reach 1 0.13 2005.67 15.79 1.68 1492.92 raymondvilk each 1 41568 1371.00 6.43 15.83 0.000219 3658,64 0.14 2642.30 1.91 raymondvilk reach 1 41568 2015.00 6.43 16.19 16.23 0.000257 0.14 2.01 4066.27 3721.20 6.43 18.57 16.61 0.000263 raymondville reach 1 41568 3073.00 41568 6.43 17.84 0.000214 2.05 10568.55 6000.00 0.13 8046.00 17.82 raymondville reach 1 0.06 raymondville 39543 1371.00 6.10 15.62 15.62 0.000055 0.70 4944.08 5100.55 reach 1 0.06 6000.00 reach 1 39543 2015.00 6.10 16.02 16.02 0.000050 0.71 7025.62 0.77 8000.00 0.06 9239.12 0.000054 raymondville reach 1 39543 3073.00 6.10 16.39 16.39 0.07 0.96 6000,00 0.000061 raymondville reach 1 39543 8046.00 6.10 17.62 17.62 37135 1371.00 5.71 15.55 8.62 15.55 0.000017 0.47 6464.07 4749.10 0.03 reymondville reach 1 0.04 5104.70 37136 2015.00 5.71 15.95 9.34 15.95 0.000020 0.54 8450.96 raymondviile reach 1 5378.77 0.05 raymondville 10240.83 reach.t 37135 3073.00 5.71 16.29 10.37 18.29 0.000030 0.69 0.07 16840.30 5693.26 reach 1 37135 8046,00 5.711 17.48 13.89 17.49 0.000053 1.03 0.13 5.33 15.40 15.44 0.000220 1.73 2510.61 4563.81 34845 1714.00 raymondville reach 1

HEC\_DAS\_Plan: P\_10 D\_2 (Continued)
River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cla) (ħ) (ft) (ft) (6q ft) (ft) raymondville reach I 34845 2255.00 5.33 15.83 15.85 0.000135 1 42 4727 52 0.10 4499 93 raymondville reach 1 34845 2858.00 5.33 16.16 16,17 0.000108 1.32 6063.59 4856,38 0.09 34845 7211.00 5.33 17.31 raymondvi ech t 17.32 0.000119 1.54 12129.71 6000.00 0.10 raymondville 34788 1714.00 5.32 15.38 15.42 0.000242 1.81 2317.11 4556,48 0.13 raymondville each 1 94788 2255.00 5.32 15.82 15.8 0.000145 4722.59 0.10 raymondville reach 1 3478A 2858 00 5.32 16 15 16 16 0.000114 1.36 5918.32 4853.13 0.09 raymondville each 1 34786 7211.00 5.32 17.30 17.31 0.000123 1.57 11976.67 6000.00 0.10 14.67 reach 1 1714.00 4.96 14.74 0.000408 raymondville 2.28 1043.70 1133 11 0.17 32585 2255.00 4.96 15.39 15.43 0.000246 raymondville 1.92 2999.29 3852.55 0.14 raymondville 32585 2856.00 4.96 15.85 15.87 0.000155 4837.07 4106.89 1.60 0.11 32585 7211.00 4.96 raymondville each 1 16.9 17.00 0.000157 1.79 10763,48 5487.46 0.11 raymondville reach 1 30584 1714.00 4.63 13.82 13 90 0.000393 2.65 651.73 114.58 0.17 raymondville reach 1 30584 2255.00 4.63 14.61 14 75 0.000475 3.05 912 78 898.14 0.19 2856.00 4.63 15.25 raymondville reach 1 15.37 0.000441 3.04 2048.00 3095.80 0.19 raymondville reach 1 7211.00 4.63 16.53 0.000303 8868,46 16.58 2.3 6000.00 0.15 0.000459 reach 1 20170 1714 00 4 40 13 22 13.34 89.31 raymondville 2.79 613.82 0.19 raymondville reach 1 29170 2255.00 4 40 13.81 13.99 0.000623 3.38 668.09 91.71 0.22 raymondville reach 1 29170 2856.00 4 40 14.30 14 55 0.000830 4 01 712 64 93 63 0.26 raymondville 4.40 7211.00 15.99 reach 1 29170 16.06 0.000613 3.24 6729.80 6000.00 0.22 28867.7 1714.00 13.07 each ' 4.35 13.19 0.000482 2.83 89.47 raymondville 605.36 0.19 raymondville mach 1 28887 7 2255.00 4.35 13 61 13.79 0.000669 3.45 91.93 0.23 each 1 28867.7 2856.00 4.35 14 02 14.2 0.000903 4.10 744 36 444.14 0.27 naymondville reach 1 28867.71 7211 00 4.35 15 79 15 88 0.000692 3.51 6237.12 6000.00 0.23 1714.00 reach 1 28565.5\* 4.30 12.92 13.04 0.000497 665.41 316.05 raymondville 2.83 0.19 reach 1 2255.00 4.30 13.40 13.55 0.000888 raymondvilk 3.24 889.85 549,79 0.25 28585 5 2856.00 4.30 13.80 13.97 0.000980 raymondville reach 1 3.56 1127.59 630.05 0.27 raymondville 0.000743 anch 1 28565.5° 7211.00 4.30 15.58 15.88 3.70 5687.72 57B1.57 0.24 1714.00 reach 1 28263.2 12,81 12.88 0.000468 576 71 raymondville 4.25 2.31 1071.21 0.18 13.24 2255.00 4.25 raymondvi 28263.2 13.32 0.000525 reach 1 2.57 1331.64 633,89 0.19 raymondville reach 1 2856.00 4.25 13.72 0.000606 2.87 1589.04 750.20 0.21 7211.00 4.25 15.37 raymondville 28263,2 15.4 0.000715 3.70 5441.03 5181.30 0.24 raymondville reach 1 27961 1714.00 4.20 12.74 12 7 0.000235 1.70 1570 27 639.60 0,13 raymondville reach 1 27961 2255.00 4 20 13.18 13 20 0.000290 1 08 1851 90 748 39 0 15 13.52 raymondville reach 1 27961 2856.00 4.20 13.57 0.000338 2.21 2139.81 816 95 0.16 7211.00 15.18 raymondville each 1 27961 4.20 15.27 0.000650 3.57 5426.65 4750.97 0.23 27505.2 1714.00 4.13 12.63 12.67 1577.57 724.39 raymondville each 1 0.000249 0.13 0.000296 27505.21 2255.00 4.13 13.03 13.07 821.50 raymondville each 1 1.98 1886.69 0.15 raymondville each 1 27505.2\* 2856.00 4.13 13.38 13.42 0.000337 2.19 2179.60 860.65 0.16 reymondville each 1 27505 2\* 7211.00 4.13 14.89 14.98 0.000637 3.50 5830.55 5074.52 0.23 27049.4 1714.00 4.05 12.52 raymondville reach 1 12.55 0.00025 1.74 1619.24 824.81 0.14 raymondville reach 1 27049.4 2255.00 4.05 12.90 12.94 0.000289 1.94 1946.5 884.49 0.15 27049.4 raymondville 2856.00 4.05 13 23 13.28 0.000330 2.15 2300.04 1260.16 0.16 0.000470 raymondville each t 27049.4 7211.00 4.05 14.66 14.72 2.97 6837.58 5339.08 0.19 1714.00 raymondville reach 1 26593.6 3.98 12.42 12.45 0.000234 1.66 1768.68 1096.39 0.13 2255.00 3.98 12.79 12.82 raymondville reach 1 26593.6 0.000256 1.82 2228.48 1364.94 0.14 raymondville 2856.00 13.10 13.14 0.000304 2.06 2733.16 2183.10 each 1 0.15 26593.61 7211.00 3.96 14.53 14.55 0.000266 8652.17 5084.00 raymondville each 1 2.23 0.15 raymondville each 1 26137.81 1714.00 3.90 12.34 12,36 0,000185 1,48 2192.22 1558.26 0.12 raymondville reach 1 26137.8 2255.00 3.90 12.68 12.71 0.000244 1.77 2932.80 3244.14 0.13 3.90 13.00 13.02 1.74 reach 1 26137.8 2856.00 0.000218 4116.03 4080.54 raymondville 0.13 raymondville reach 1 26137.8 7211.00 14.45 0.00014 1.82 10822.28 4907.62 0.11 raymondville reach 1 25682 1714 00 3.83 12.26 12.30 0.000131 1 25 3534 62 4063 17 0.10 raymondville reach 1 25882 2255.00 3.83 12.63 12.64 0.000105 1.17 4956.17 4115.05 0.09 raymondville reach 1 25682 2856.00 3.83 12.95 12.96 0.000091 1.13 6283.81 4163 46 0.08 14.41 14.42 raymondville 25682 7211.00 3.83 0.000078 1.22 13178.30 4897.78 each 1 0.08 raymondville each 1 25281. 1714.00 3.76 12.25 12.25 0.000100 4044.35 4054.57 0.09 25281. raymondville 2255.00 3.76 12 60 12.61 0.000082 1.05 5490 53 4121.23 0.08 raymondville reach 1 25281 2856.00 3.76 12.92 12.93 0.000081 1.08 6893 04 4654 45 0.08 raymondville reach 1 25281. 7211.00 3.76 14.39 14.40 0.000074 1,20 14335.13 6000.00 0.08 1714.00 3.70 12.22 12.22 0.00007 0.95 4652.35 3810,08 0.07 reach 1 raymondville 24880. 2255.00 3.70 12.57 12.58 0.000065 0.95 6081.34 4209.63 0.07 raymondyille reach 1 raymondville reach 1 24880 2856.00 3.70 12.90 12.91 0.00006 0.97 7572.73 4663.09 0.07 raymondville each 1 24880. 7211.00 3.70 14,37 143 0.000058 1.08 15802.90 6000.00 0.07 24479. 1714.00 3.63 12.20 12.20 0.000051 5339.50 3891.35 raymondville reach 1 0.82 0.06 0.000048 24479. 2255.00 3.63 12.56 12.56 0.83 6808.77 4400.81 0.06 raymondville reach 1 rzymondville 24479 2856.00 3.63 12.89 12.89 0.00004 0.87 0.06 reach raymondville 24479 7211.00 3.63 14.35 14.36 0.000046 16872.70 6000.00 0.06

River Reach River Sta O Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chril Flow Area Top Width Froude # Chi (cfa) (ft) (ft) (ft) (fVft) (ft/s) (sq ft) (ft): caymondville reach 1 24078 1714 00 3.57 12 1R 0.000037 12.19 0.70 6168.50 0.05 4144.97 raymondville reach 1 24078. 2255.00 3.57 12.54 12 54 0.000036 0.73 7758.82 4865.35 0.05 raymondvii 9425.27 reach 1 24078 2856.00 3.57 12.87 12.87 0.000037 0.77 5466.29 0.05 raymondville reach 1 7211.00 24078 6000.00 3.57 14.33 14.33 0.000037 0.88 18135.87 0.06 raymondville reach 1 23677 1714.00 3.50 12.16 0.000027 12.17 0.60 7145.75 4682.75 0.04 raymondville march 1 23677 2255.00 12.52 12.53 0.000026 0.62 8905.41 5218.64 0.04 raymondville reach 1 23677 2856 00 3.50 12.85 12.85 0.000027 0.66 10699.55 5674.64 0.05 raymondville reach 1 23077 7211 00 3.50 14.31 0.000030 0.80 19399.51 6000.00 0.05 reach 1 21860 raymondville 1714.00 3,17 12.13 12.13 0.000013 0.42 10238.59 6000.00 0.03 21660 raymondvill reach: 1 2255.00 3.17 12.49 12.50 0.000012 0.42 12410.19 6000.00 0.03 2856.00 raymondville reach 1 3.17 12.82 12.82 0.000013 0.44 14360.32 6000.00 0.03 reach 1 21660 raymondville 7211.00 14.27 14.27 0.000013 0.60 23052.92 6000.00 0.04 raymondville reach 1 19608 1714.00 2 83 12 11 12.11 0.000013 0.42 10017.36 5923.15 0.03 raymondville reach 1 19600 2255.00 2.83 12.48 12.48 0.000012 0.43 12228.52 6000.00 0.03 raymondvilk reach 1 2856.00 2.83 12.80 12.80 0.000013 0.45 14140.04 6000 00 0.03 raymondville 19606 reach 1 7211.00 2.83 14.24 14.24 0.000018 0.61 22785.90 6000.00 0.04 raymondville mach 1 19152 2 1714.00 2.75 12.10 12,10 0.000014 0.45 9715.96 6000.00 0.03 raymondville reach 1 19152.21 2255.00 2.75 12.46 12.48 0.000013 0.45 11917.39 6000.00 0.03 raymondvik reach 1 19162.21 2856.00 2.75 12 7R 12.78 0.000014 0.47 13843.21 6000.00 0.03 raymondvilk reach 1 19152.21 7211.00 2.75 14.22 14.22 0.000019 0.63 22478.37 6000.00 0.04 raymondville reach 1 18696.51 1714.00 2.68 12.08 12.08 0.000018 0.47 9418.08 6000.00 0.03 raymondville reach 1 18696,51 2255.00 2.68 12.45 12.45 0.000015 0.47 11607.84 6000.00 0.03 reach 1 18698.5 2856.00 2.68 12.77 12,77 0.000015 0.49 13547.96 6000.00 0.03 raymondville reach t 18698.5 7211.00 2.68 14.21 14.21 0.000020 0.64 22172.42 6000.00 0.04 raymondville reach 1 18244.7 1714.00 2.61 12.07 12.07 D 000017 0.49 911035 6000 00 0.04 raymondville 18244.7 2255.00 2.61 12.43 12.43 0.000016 0.49 11288.46 6000.00 0.03 raymondville 18244.71 2856.00 2.61 12.76 12.76 0.000016 0.51 13242.88 6000.00 0.03 each 1 18244.7 7211.00 2.61 14.19 0.000020 0.66 21856.63 6000.00 0.04 raymondville reach 1 17791. 1714.00 2.53 12.05 12.05 0.000019 0.52 8812.47 6000.00 0.04 raymondville reach 1 17791 2255.00 2.53 12.41 12.42 0.000017 0.52 10978.91 6000.00 0.04 raymondvi reach t 17791 2856.00 2.53 12.74 12.74 0.000017 0.53 12947 63 6000 00 0.04 raymondville 17791. 7211.00 2.53 14.18 14.18 0.000021 0.88 21550.69 6000.00 0.04 raymondville reach 1 17337.2 1714.00 2.45 12.04 12.04 0.000021 0.55 8518.45 6000.00 0.04 17337.21 raymondville each 1 2255.00 2.45 12.40 12.40 0.000019 0.54 10671.23 0.04 6000.00 raymondviše reach 1 17337.2 2856.00 2.45 12.73 0.000018 12.73 0.55 12654.25 6000.00 0.04 raymondville reach 1 17337.2 7211.00 2.45 14.16 14.16 0.000022 0.69 21246.61 6000.00 0.04 raymondville 16883.5 1714.00 each t 2.38 12.03 12.03 0.000024 0.58 8209.99 6000.00 0.04 raymondville reach 1 2255.00 2.38 12.38 12.38 0.57 0.000021 10353.10 6000.00 0.04 each 1 16883.5 2856.00 2.38 12.72 12.72 0.000020 0.57 12350.42 6000.00 0.04 raymondvitle reach 1 16663 51 7211.00 0.000024 0.71 20932.08 6000,00 0.04 16429.7 1714.00 raymondville reach i 2.31 12.00 12 01 0.000027 0.62 7863 26 8000 00 0.04 raymondville 16429.7 reach 1 2255.00 2.31 12.37 12.37 0.000023 0.60 10041.54 6000.00 0.04 raymondviile 16429.7 reach 1 2856.00 2.31 12,70 0.000021 12.70 0.59 12053.16 6000.00 0.04 raymondville 16429.7 7211.00 2.31 14.13 14.13 0.000025 0.73 20624.12 6000,00 0.05 raymondville reach 1 15976 1714.00 2 23 11.98 11.98 0.000029 0.64 7522.40 5762.30 0.05 raymondvale reach 1 15976 2255.00 2.23 12.35 12.35 0.000025 0.82 9731.48 6000.00 0.04 15976 raymondville reach 1 2856.00 2.23 12.69 12.69 0.000023 0.62 11757.39 6000.00 0.04 raymondville 15076 reach 1 7211.00 2.23 14.11 14.12 0.000026 0.75 20317.65 6000.00 0.05 15517.2 reach 1 1714.00 2.16 raymondville 11.94 0.000132 1.39 3703.61 5538.14 0.10 raymondville reach 1 15517.2 2255.00 2.16 12.32 12.33 0.000087 1.17 5882.29 5711.75 0.08 raymondville reach 1 15517.2 2856.00 2.16 12 67 12 67 0.000069 1.08 7865,54 6000.00 0.07 raymondvilk reach 1 15517.2\* 7211.00 2.18 14.09 14.09 0.000050 1.05 16408.85 6000.00 0.06 raymondville reach 1 15058.4 1714.00 2.08 11.82 11.87 0.000256 1508.18 1757.44 1.92 0.14 raymondville reach 1 15058.4 2255.00 2.08 12.22 12.26 0.000266 2480.76 2.04 3334.25 0.14 reach 1 15058.4\* 2858 00 2.08 12.58 raymondville 0.000238 2.00 4873.07 3938.84 0.14 raymondville reach 1 15058.4\* 7211.00 2.08 14.05 14.06 0.000112 1.57 12416.77 6000.00 0.10 14599.61 1714.00 11.68 raymondville reach 1 2.01 11.73 0.000291 2.03 1232.99 763.58 0.15 14599.6 2255.00 raymondville reach 1 0.000350 2.01 12.05 12,12 2.32 1559.95 1250.95 0.16 reach 1 14599.6 2856.00 2.01 raymondville 12.40 12.47 0.000393 2.55 2131.76 2029.68 0.17 raymondville each 1 4599.6 7211.00 2.01 13.94 13.98 0.000303 2.57 5847.37 7992.51 0.16 raymondville reach 1 14140 8 1714.00 1 93 11 53 11 59 0.000322 2.12 1101.66 656.86 0.15 raymondville reach 1 14140.8\* 2255.00 1.93 11.85 11.94 0.000414 2.49 1333.88 748.42 0.18 raymondville réach 1 14140.8 2856.00 1.93 12.17 12.27 0.000498 2.82 1576,59 795.65 0.20 raymondville reach: 14140.8 7211.00 1.93 13.63 13.76 0.000704 3.84 4572.89 3221.84 0.24 11.44 reach 1 13682 1714.00 1 88 11.37 0.000350 2.18 1008.04 528,14 0.16 raymondville reach 1 13682 2255.00 1.88 11.63 11.73 615.43

| River   | Plan: P 10 F                          | River Sta      | (Total             | Min Ch El      | W.S. Elev      | Crit W.S.        | E.G. Elev        | E.G. Slope           | Vel Chnl     | Flow Area          | Top Width          | Froude # Chi      |
|---|---------------------------------------|----------------|--------------------|----------------|----------------|------------------|------------------|----------------------|--------------|--------------------|--------------------|-------------------|
|   |                                       |                | (cfs)              | (H)            | (fi)           | (ft)             | (ft)             | (ft/ft)              | (fVs)        | (sq ft)            | (ft)               | \$ 15 (E) (A) (A) |
| raymondville  | reach 1                               | 13682          | 2856.00            | 1.86           | 11.88          |                  | 12.01            | 0.000633             | 3.11         | 1323,90            | 713.65             | 0.22              |
| raymondville  | reach 1                               | 13682          | 7211.00            | 1.86           | 12.95          |                  | 13.28            | 0.001567             | 5.44         | 2304.99            | 1438.69            | 0.35              |
|   |                                       |                | <u> </u>           |                |                |                  |                  |                      |              |                    |                    |                   |
| raymondville  | reach 1                               | 11672          | 1714.00            | 1.53           | 10.91          |                  | 10.94            | 0.000176             | 1.52         | 3110.54            | 4476.20            | <del></del>       |
| raymondville<br>raymondville  | reach 1                               | 11672<br>11672 | 2255.00<br>2856.00 | 1.53           | 11.16<br>11.40 |                  | 11.18<br>11.42   | 0.000166<br>0.000156 | 1.52         | 4277.34            | 4718.76            |                   |
| raymondville  | reach 1                               | 11672          | 7211.00            | 1.53           | 12.29          |                  | 12.31            | 0.000130             | 1.52<br>1.89 | 5401.95<br>9912.65 | 4832.00<br>5301.54 | 0.11<br>0.13      |
| 3.00-323  |                                       |                | 1217.00            | 1.00           |                |                  | 12.01            | 0.000200             | 1.00         | 0012.00            | 3001.04            | 0.13              |
| raymondville  | reach 1                               | 9670           | 1714.00            | 1.20           | 10.34          |                  | 10.40            | 0,000425             | 2.22         | 1627.64            | 3472,93            | 0,17              |
| raymondville  | reach 1                               | 9870           | 2255.00            | 1.20           | 10.72          |                  | 10.76            | 0.000279             | 1.89         | 3335.79            | 4974,58            | 0.14              |
| raymondville  | reach 1                               | 9670           | 2856.00            | 1.20           | 11.05          |                  | 11.07            | 0.000197             | 1.65         | 4948.82            | 4988.98            | 0.12              |
| raymondville  | reach 1                               | 9670           | 7211.00            | 1.20           | 11.82          |                  | 11.84            | 0.000271             | 2.10         | 8822.86            | 5023.42            | 0.14              |
|   |                                       | 1.68 5         |                    |                |                |                  |                  |                      |              |                    |                    |                   |
| naymondville  | reach 1 -                             | 6234           | 1714.00            | 0.64           | 8.37           |                  | 8.53             | 0.000749             | 3.30         | 518.87             | 84.96              | 0.24              |
| raymondville  | reach 1                               | 6234<br>6234   | 2255.00<br>2856.00 | 0.64<br>0.64   | 8.91<br>9.51   |                  | 9.15<br>9.71     | 0.001009             | 3.99         | 565.57             | 87.13              | 0.28              |
| raymondville<br>raymondville  | reach 1                               | 6234           | 7211.00            | 0.64           | 10.83          | 5.09             | 10.85            | 0.001300             | 3.90<br>2.34 | 1512.62<br>8724.45 | 3570.68<br>6000.00 | 0.30<br>0.16      |
| I STITION OF THE  | ( case)                               | 1807           | 7211.00            | 0.04           | 10.00          |                  | 10.63            | 0.000344             | 2.34         | 5724.43            | 8000.00            | 0.16              |
| raymondville  | reach 1                               | 4339           | 1714.00            | 0.31           | 7.55           | 3.61             | 7.57             | 0.000311             | 1.18         | 1446.41            | 591,48             | 0.13              |
| raymondville  | reach 1                               | 4339           | 2255.00            | 0.31           | 7.92           | 5,28             | 7.95             | 0.000363             | 1.34         | 1678.06            | 638.44             | 0.15              |
| raymondville  | reach 1                               | 4339           | 2856.00            | 0.31           | 8.27           | 5,46             | 8.30             | 0.000413             | 1.50         | 1907.36            | 580.49             | ·                 |
| raymondville  | reach 1                               | 4339           | 7211.00            | 0.31           | 9.80           | 6,58             | 9.89             | 0.000710             | 2.38         | 3028.24            | 808.88             | 0.22              |
| 11.43.8   | 1201                                  |                | ļ <u> </u>         |                | <u> </u>       |                  |                  |                      |              |                    |                    |                   |
| raymondville  | reach 1                               | 4300           | 1714.00            | 0.30           | 7.53           | 3.60             | 7.55             | 0.000318             | 1.20         | 1434.08            | 589.90             | 0.14              |
| raymondville  | reach 1                               | 4300           | 2255.00            | 0.30           | 7.91           | 5.27             | 7.94             | 0.000372             | 1,36         | 1663,73            | 636.58             |                   |
| raymondville<br>raymondville  | reach 1                               | 4300           | 2856.00<br>7211.00 | 0.30           | 8.25<br>9.77   | 5.49<br>6.56     | 8.29<br>9.86     | 0.000424             | 1.51<br>2.40 | 1890.91<br>2998.85 | 679.46<br>804.32   | 0.16              |
| INVINUITARIO  | i i i i i i i i i i i i i i i i i i i | 14000          | 7211.00            | 0.30           | 3.11           | 0,36             | 9.00             | 0.000728             | 2.40         | 2986.65            | 804.32             | 0.22              |
| raymondville  | reach 1                               | 3878.00*       | 1714.00            | 0.23           | 7.38           |                  | 7.40             | 0.000373             | 1.28         | 1334,11            | 554.37             | 0.15              |
| raymondville  | reach 1                               | 3878.00*       | 2255.00            | 0.23           | 7.73           |                  | 7.77             | 0.000433             | 1.47         | 1537.78            | 586.92             | 0.18              |
| raymondville  | reach 1                               | 3878,00*       | 2856.00            | 0.23           | 8.05           | <u> </u>         | 8.09             | 0.000488             | 1.65         | 1728.19            | 603.07             | 0.17              |
| raymondville  | reach 1                               | 3878,00*       | 7211.00            | 0.23           | 9.45           |                  | 9.54             | 0.000786             | 2.53         | 3627.04            | 2834.25            | 0.23              |
| 19 4 200  |                                       |                |                    |                |                |                  |                  |                      |              |                    |                    |                   |
| raymondville  | reach 1                               | 3458.00*       | 1714.00            | 0.16           | 7.20           |                  | 7.23             | 0.000420             | 1.41         | 1215.69            | 480.73             | 0.16              |
| reymondville  | reach 1                               | 3456.00°       | 2255.00            | 0.16           | 7.52           |                  | 7.56             | 0.000507             | 1.65         | 1383.69            | 649,42             | 0.17              |
| raymondville<br>raymondville  | reach 1                               | 3456.00°       | 2856.00<br>7211.00 | 0.16<br>0.16   | 7.81<br>9.17   |                  | 7.87<br>9.24     | 0.000612<br>0.000634 | 1.86<br>2.39 | 1598.24<br>4583.32 | 851.30<br>2816.87  | 0.19              |
| - ayinonayna  | I GBCAL I                             | 3-30.00        | 7211.00            | 0.10           | 3.17           |                  | 9.24             | 0.000034             | 2.39         | 4303.32            | 2010.07            | 0.21              |
| raymondville  | reach 1                               | 3034.00°       | 1714.00            | 0.09           | 6.99           |                  | 7.03             | 0.000542             | 1.62         | 1143.09            | 915.54             | 0.18              |
| raymondville  | reach 1                               | 3034.00"       | 2255.00            | 0.09           | 7.29           |                  | 7.33             | 0.000568             | 1.78         | 1680.43            | 1902.15            |                   |
| raymondville  | reach 1                               | 3034.00*       | 2856.00            | 0,09           | 7.57           |                  | 7.62             | 0.000547             | 1.86         | 2240.90            | 2009.76            |                   |
| raymondville  | reach 1                               | 3034.00*       | 7211.00            | 0.09           | 8.97           |                  | 9.01             | 0.000424             | 2.09         | 5785.18            | 2857.62            | 0.17              |
|   |                                       |                |                    |                |                |                  |                  |                      |              |                    |                    |                   |
| raymondville  | reach 1                               | 2612.00*       | 1714.00            | 0.02           | 6.83           |                  | 6.86             | 0.000309             | 1.41         | 2163.28            | 2204.23            |                   |
| raymondville  | reach 1                               | 2612.00*       | 2255.00            | 0.02           | 7.14           |                  | 7.16             | 0.000283             | 1.43         | 2843.09            | 2238.53            | 0.14              |
| raymondville  | reach 1                               | 2812.00°       | 2856.00<br>7211.00 | 0.02<br>0.02   | 7.44<br>8.84   |                  | 7.45<br>8.87     | 0.000264             | 1.46         | 3509.24<br>7187.30 | 2277.21            | 0.13              |
| raymondvilla  | learn i                               | 2012:00        | 7217.00            | 0.02           | 0.04           | <del></del>      | 0.07             | 0,000255             | 1.77         | 7167.30            | 2862.33            | 0.14              |
| raymondville  | reach 1                               | 2190           | 1714.00            | -0.05          | 6.78           |                  | 6.78             | 0.000098             | 0.99         | 3632.18            | 2179.05            | 0.08              |
| raymondville  | reach 1                               | 2190           | 2255.00            | -0.05          | 7.08           |                  | 7.08             | 0.000112             | 1.11         | 4309.51            | 2444.12            |                   |
| raymondville  | reach 1                               | 2190           | 2856.00            | -0.05          | 7.37           |                  | 7.38             | 0.000115             | 1.17         | 5037.46            | 2479.28            | 0.09              |
| raymondville  | reach 1                               | 2190           | 7211.00            | -0.05          | 8.77           |                  | 8.78             | 0.000157             | 1.60         | 8713.47            | 2911.57            | 0.11              |
| V 08 sector 11  | Language                              |                |                    |                |                | <u> </u>         |                  |                      |              |                    |                    |                   |
| raymondville  | reach 1                               | 0              | 1714.00            | -0.41          | 6.51           | 2,89             | 6.52             | 0,000160             | 1.16         | 3264.59            | 2522.02            | 0.10              |
| raymondville  | reach 1                               | 0              | 2255.00            | -0.41          | 6.78           | 5.27             | 6.79             | 0.000160             | 1.21         | 3950,46            | 2543.13            | 0.10              |
| raymondville  | reach 1                               | 0              | 2856.00            | -0.41          | 7.08           |                  |                  |                      | 1.27         | 4757.25            | 3325.34            |                   |
| raymondville  | reach 1                               | 0 000          | 7211.00            | -0.41          | 8.42           | 6.13             | 8.43             | 0.000160             | 1.51         | 9331.55            | 3429.20            | 0.11              |
| North Main  | reach 4                               | 331370         | 410.00             | 96.81          | 103.97         | 99.87            | 104.06           | 0.000492             | 2.44         | 168.35             | 36.91              | 0.20              |
| North Main  | reach 4                               | 331370         | 573.00             | 96.81          | 105.23         | _                | 105.34           | 0.000479             | 2.63         | 217.96             |                    |                   |
| North Main  | reach 4                               | 331370         | 770,00             | 96.81          | 106.53         | 101.12           | 106.66           | 0.000463             | 2.80         | 275.18             | 46.43              |                   |
| North Main  | reach 4                               | 331370         | 1392.00            | 96.81          | 109.54         | 102.69           | 109.70           | 0.000453             | 3.23         | 431.50             | 57,59              | 0.21              |
| 10 to |                                       |                |                    |                |                |                  |                  |                      |              |                    |                    |                   |
| North Main  | reach 4                               | 330227         | 410.00             | 96.76          | 103.48         |                  |                  |                      | 2.23         | 183.83             | 39.69              | <del></del>       |
| North Main  | reach 4                               | 330227         | 573.00             | 96.76          | 104.76         |                  |                  | 0.000387             | 2.41         | 237.54             | 44.25              |                   |
| North Main<br>North Main  | reach 4                               | 330227         | 770.00<br>1392.00  | 96.76<br>96.76 | 106.07         | 100.47<br>101.93 | 106.18<br>109.23 | 0.000374             | 2.58<br>3.01 | 298.96<br>462.46   | 48,95<br>59,45     |                   |
| PACHE MEDIT   | I PAGE 4                              | 330227         | 1382.00            | 30,70          | 105.08         | 101.93           | 109.23           | 0.000374             | 3.01         | 402.40             | 59,45              | 0.19              |
| North Main  | reach 4                               | 330128         | 410.00             | 96.76          | 103.44         | 99.26            | 103.52           | 0.000413             | 2.31         | 177.44             | 36.28              | 0.18              |
| North Main  | reach 4                               | 330128         | 573.00             | 96.76          | 104.71         | 99.81            | 104.81           | 0.000421             | 2.53         | 226.49             | 40.84              |                   |
| North Main  | reach 4                               | 330128         | 770.00             | 96.76          | 106.02         |                  |                  | 0.000423             | 2.72         | 283.12             | 45.91              | 0.19              |
| North Main  | reach 4                               | 330128         | 1392,00            | 96.76          | 109.02         | 101.86           | 109.18           | 0,000435             | 3.17         | 438.74             | 57.61              | 0.20              |
|   |                                       | 100 - 300      |                    |                |                | L                |                  |                      |              |                    |                    |                   |
| North Main  | reach 4                               | 330078         | 410.00             | 96.76          | 103.41         | 99.26            | 103.50           | 0.000419             | 2.32         | 176.65             | 36,22              | 0.19              |
| North Main  | reach 4                               | 330078         | 573.00             | 96.76          |                | 99.80            | 104.79           | 0.000426             | 2.54         | 225.58             | 40.75              |                   |
| North Main  | reach 4                               | 330078         | 770.00             | 96.76          | 106.00         | 100.39           | 106.11           | 0.000427             | 2.73         | 282.09             | 45.83              |                   |
| North Main  | reach 4                               | 330078         | 1392.00            | 96.76          | 109.00         | 101,86           | 109.16           | 0.000438             | 3,18         | 437,41             | 57.52              | 0.20              |
| North Main  | reach 4                               | 329975         | 410.00             | 97.01          | 103.29         | 100.02           | 103.43           | 0.000858             | 3.01         | 136.16             | 32.79              | 0.26              |
| North Main  | reach 4                               | 329975         | 573.00             | 97.01          | 103.29         | 100.64           | 103.43           | 0.000776             | 3.16         | 181.05             | 37,34              | 0.25              |
| North Main  | reach 4                               | 329975         | 770.00             | 97.01          | 105.88         | 101.29           | 106.05           | 0.000711             | 3.31         | 232.97             | 41.99              |                   |
|   | ·                                     |                |                    | 97.01          | 108.88         | 102.88           | 109.10           | 0.000648             | 3.71         | 375.16             | 52.87              | 0.25              |
| North Main  | reach 4                               | 329975         | 1392.00            | 97.011         | 106.00         | 142.00           | 103.10           |                      | 3.711        | 3/3.10             | نات,عدت            | 0.23              |

HFC\_DAS\_Plan: P\_10.D\_2 (Continued)
River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfa) (11) (f) (fVa) (sq ft) (11) North Main ach 4 410.00 102 35 97 R7 102.42 0.000330 40.45 2.09 0.17 North Main reach 4 328000 573.00 95.26 103.69 98.42 103.76 0.000321 2.26 253.61 45.11 0.17 North Main reach 4 328000 770.00 95.26 105.04 99.00 105.13 0.000313 2.42 317.95 49.83 0.17 North Main reach 4 328000 1392.00 95.26 108.06 100.47 108.19 0.000329 2.88 484.17 60.35 0.18 North Main reach 4 326000 410.00 94.56 101.63 97.39 101.70 40.83 0.000385 2.19 0.18 187.63 North Main reach 4 326000 573.00 94.56 103.01 97.96 103.09 0.000354 2.31 247.67 46.27 0.18 104.49 North Main march 4 226000 770.00 94.58 98.54 104.39 0.000332 2.44 51.75 0.17 North Main reach 4 326000 1392.00 94.56 107.40 100.02 107.52 0.000335 2.85 488.77 0.18 63,48 North Main reach 4 324063 410.00 94.05 101.03 96.40 101.09 0.000267 1.90 216.21 44,36 0.15 North Main 324083 reach 4 573.00 94.05 102.46 96.92 102.52 0.000249 2.02 283.23 49.81 0.15 94.05 97.47 North Mair reach 4 324083 770.00 103.87 103.95 0.000238 2.15 357.59 55.24 0.15 North Mair 324083 1392.00 94.05 98.88 539.10 each 4 106.85 106.96 0.000257 66.67 2.58 0.16 North Main march 4 324005 410.00 94.05 101 01 98.40 101.07 0.000270 1.90 215.24 44 28 0.15 North Main reach 4 324005 573.00 94.05 102 44 96.92 102.50 0.000251 2.03 282 22 49.73 0.15 North Main reach 4 324005 770.00 94.05 103.85 97.47 103.93 0.000240 2.16 358.52 55.18 0.15 North Main reach 4 324005 1392.00 94.05 106.83 98.88 106.94 0.000259 2.59 537.70 66.59 0.16 North Main reach 4 322000 410.00 93.17 100.42 95.84 100.48 0.000317 2.04 41.49 0.16 200.55 North Main reach 4 322000 573.00 93,17 101.89 96.40 0.000286 101.96 2.16 47.02 0.16 North Main reach 4 322000 770.00 93 17 103.33 96 90 103 41 0.000273 2.28 337.43 52.45 0.16 North Main reach 4 322000 1392.00 93.17 106.29 98.48 106.37 0.000302 2.42 835.4B 363.10 0.17 North Main 32096 93.05 100.00 95.85 0.000464 2.40 171.18 each 4 410.00 100.09 36.63 0.20 North Main reach 4 320965 573.00 93.05 101.51 96.44 0.000404 2.48 41.82 0.19 101.61 230.60 North Main reach 4 320985 770.00 93.05 102.98 97.06 103.08 2.61 each 4 1392.00 93.05 105.84 98.63 106.00 0.000408 3.13 444.07 56.65 0.20 North Mak 3200085 410.00 93.05 95.85 100.04 North Main reach 4 320873 99.95 0.000476 2.42 169.52 36.47 0.20 North Main 320873 573.00 93.05 101.47 reach 4 96,44 101.57 0.000412 2.50 228.96 41.69 0.19 North Mair 102.94 97.08 reach 4 320873 770.00 93.05 48.72 0.18 103.05 0.000379 2.62 293.80 North Main 320679 1392.00 93.05 105.81 98.63 0.000414 441.82 56.52 0.20 105.96 3.15 North Main ach 4 320000 410.00 92.95 99.57 95.52 99 65 0.000417 2.25 182.22 40.31 0.19 North Main reach 4 320000 573.00 92 95 101.16 96.08 101 24 0.000341 2.28 250.98 46.39 0.17 North Main reach 4 320000 770.00 92.95 102.66 96.67 102.74 0.000306 2.37 324.79 52.12 0.17 North Main reach 4 320000 1392.00 92.95 105.50 98.13 105.63 0.000333 2.85 488.63 63.07 0.18 North Main 318000 410.00 91.12 98.87 0.000306 2.05 39.67 0.16 reach 4 93.95 98.94 200.37 Vorth Main 318000 573.00 91.12 100.58 94.56 100.65 2.10 273.15 45.76 0.15 North Main reach 4 318000 770.00 91.12 102.12 348.07 51.27 0.15 95.19 102.20 0.000244 2.21 104.88 105.00 North Main reach 4 318000 1392.00 91.12 96.76 0.000297 503.02 61.12 0.17 317530 North Main reach 4 410.00 91.23 98.72 94.19 98.79 0.000330 2.04 201.31 43.71 0.17 317530 0.000256 North Main reach 4 573,00 91.23 100.48 94,78 100.52 2.02 283.94 51.52 0.15 North Main 317530 770.00 91.23 102.02 95.39 102.08 369.59 58,52 0.15 reach 4 0.000228 2.08 North Main each 4 1392.00 91.23 104.76 96.87 104.80 0.000261 2.54 547.10 70.81 0.18 North Main nach 4 317452 410.00 91 23 98.70 94.20 98.76 0.000335 2 05 200.14 43.59 0.17 North Main each 4 317452 573.00 91.23 100.44 94.78 100.50 0.000259 2.03 282.88 51.43 0.15 North Main reach 4 317452 770.00 91.23 102.00 95.39 102.07 0.000230 2.09 368.52 58,44 0.15 317452 1392.00 91.23 104.74 96.87 545.61 70.72 0.16 North Main reach 4 104,84 0.000263 2.55 North Main each 4 317000 410.00 90.93 98.54 93.87 98.61 2.14 191,70 39.29 0.17 0.000347 North Mair reach 4 317000 573.00 90.93 100.31 94 48 100.38 0.000277 2.15 267.13 45 81 0.16 North Main reach 4 317000 770.00 90.93 101.88 95.12 101.96 0.000255 2.24 343.49 51.59 0.15 North Main reach 4 317000 1392.00 90.93 104.59 98.66 104.71 0.000310 2.80 498.84 61.57 0.17 21.96 0.32 North Main reach 2 157900 40.00 90.87 92.00 91.41 92.05 0.001840 1.80 22.17 157900 100.00 90.87 92.66 91.84 0.002312 24.65 0.38 North Main reach 2 92.77 2.65 37.73 North Main reach 2 157900 188 00 90.87 95.40 92.32 95.44 0.000289 1.56 120.38 35,69 0.15 North Main reach 2 157900 515.00 90.87 97.22 93.55 97.33 0.000596 2.69 191,80 43.00 0.22 North Main reach 2 157788 40.00 90.87 91.42 91.34 91.59 0.014955 3.35 11.94 22.67 0.81 33.51 North Main reach 2 157788 100.00 90.87 92.32 91.74 92.45 0.003570 2.98 25.31 0.48 North Main reach 2 0.14 188.00 90.87 95.38 92.18 95.41 0.000255 1.51 124.53 34.56 North Main reach 2 157788 515.00 90.87 97.16 93.35 97.27 0.000586 2.67 192.99 42.42 0.22 North Main reach 2 157777 Inline Weir 16.29 North Main 157707 88.33 89.90 0.002109 19.02 0.34 reach 2 40.00 89.21 89.97 2.10 North Main 157707 100.00 88.33 92.31 89.77 92.34 0.000331 1.43 70.00 26.04 0.15 reach 2 North Main reach 2 157707 188.00 88.33 95.37 95.38 0.000106 1.12 168.26 38.00 0.09 North Main each 2 157707 515.00 88.33 97.15 91.83 97.22 0.000299 2.13 242.03 44 90 0.16 North Main reach 2 157442 40.00 67.38 89.67 88.30 89.70 0.000558 1.34 29.86 16.33 0.18 28.83 1.10 91.03 0.11 North Main reach 2 157442 100,00 87.38 92.26 68.88 92.28 0.000160 188.00 87.38 89.49 0.94 199,70 41.36 0.08 157442 95.36 95.37 0.000068 North Main reach 2 North Main 157442 515.00 87.38 97.10 91.01 97.16 0.000208 1.85 277.85 48.28 0.14 reach 2

North Main

reach 2

157290

40.00

87.38

89.57

68.30

89.60

0.000661

1,42

28.12

17.94

0.20

Plan: P 10 D 2 (Continued)
River Sta | O Total DAG Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cfe) (ft) North Main (ft) (ff) reach 2 157290 (ft/ft) (fVs) 87.36 (sq ft) 100.00 (#) 92.23 North Main 88.88 92.25 each 2 157290 0.000164 188.00 87.38 90.11 28.70 95.34 North Main 89.49 95.38 157290 0.000088 0.94 515.00 199.13 87.38 41.31 0.08 97.06 91.01 97.12 0.000212 1.87 275.86 48,12 0.14 North Main reach 2 156900 40.00 87.38 89.39 68.06 North Main each 2 89.41 0.000375 156900 100.00 1.10 38.34 22,49 87.38 92.18 0.15 88.52 North Mair reach 2 92.19 0.000091 150900 0.88 188.00 113.34 87.38 32.71 95.32 89.03 0.08 North Main 95.33 reach 2 0.000044 158900 0.80 515.00 97.38 234.18 44.25 97.00 90.35 0.06 97.04 0.000148 1.64 313.59 50.41 0.12 North Main reach 2 155952 40.00 87.33 88.97 North Main 87.94 88,99 reach 2 0.000537 155952 1.16 100,00 34.40 87.33 92.12 26.19 0.18 88.35 North Main 92.13 reach 2 0.000057 155952 0.70 142.02 188.00 87.33 95.30 42.08 0.07 88.80 North Main 95.31 each 2 0.000026 155952 0.62 301.54 515.00 87.33 96.91 58.13 0.05 89.97 96.93 0.000089 1.28 401.25 66.22 0.09 North Main reach 2 155846 40.00 87.31 North Main 88.90 87.84 88.93 reach 2 0.000562 155846 1.23 87.31 32.44 100.00 92.11 23.05 0.18 88 28 North Main 92.12 155846 reach 2 0.000071 0.81 123.90 188,00 87.31 33 R1 0.07 95.30 North Main 88.76 95.31 reach 2 155846 0.000036 0.76 246.34 515.00 87.31 43.17 96.89 90.02 96.93 0.000134 1.62 47.85 0.11 North Main reach 2 155779 40.00 87.31 88 88 87.70 North Main reach 2 88.89 0.000233 0.82 155779 100.00 48 83 33.30 87.31 92.11 88.02 0.12 North Main 92.11 reach 2 0.000033 155779 0.58 188.00 171.26 42.65 87.31 95,29 88.39 0.05 North Main 95.30 reach 2 155779 0.000019 0.59 321.09 515.00 87.31 51.44 96.88 0.04 89,36 96.91 0.000073 1.27 406.30 55.83 0.08 North Main reach 2 155696 40.00 87.31 88.85 87.78 North Main reach 2 88 87 0.000439 155696 1.09 36.76 100.00 28.03 87.31 92.09 0.16 88.16 North Main reach 2 92 10 0.000056 155696 188.00 0.74 136.00 87.31 35.24 95.28 0.07 88.60 North Main reach 2 95.29 0.000031 155696 0.71 515.00 263.07 44.43 87.31 96.86 0.05 89.76 96.90 0.000118 1.53 336.87 48.97 North Main 0.10 reach 2 154900 40.00 86.57 88.64 North Main 87.06 88.65 0.000176 reach 2 154900 0.81 49.16 100.00 86.57 26.98 0.11 92.05 North Main reach 2 87.45 92.06 0.000036 154900 0.63 188.00 158.81 37.28 86.57 95.25 0.05 87.90 North Main each 2 95.26 0.000023 154900 0.64 293 B4 515.00 46.93 86.57 96.78 89.08 0.05 96.61 0.000092 1.40 368.95 51.5 0.09 North Main mach 2 153295 40.00 85.60 88.43 86.21 North Main 88.44 reach 2 0.000103 0.72 153295 55.88 100.00 85.60 24.54 0.08 92.00 86 68 North Main 92.00 reach 2 153295 0.000031 0.61 164.17 188.00 85.60 36.18 95.23 0.05 87.20 95.23 North Main 0.000022 each 2 153295 0.63 298.51 515.00 85.60 96.64 47.19 0.04 68.55 96.67 0.000093 1.40 368.45 52.08 0.09 North Main reach 2 153200 40.00 85.60 88.42 86.21 North Main 88 42 0.000105 reach 2 0.72 153200 100.00 55 56 24.50 85.60 91.99 0.08 86.68 North Main reach 2 91.99 0.00003 153200 0.61 188.00 163 77 36.13 85.60 95.22 0.05 87.20 95,22 North Main reach 2 0.000022 153200 0.63 515.00 298.11 47.16 85.60 0.04 96.62 88.54 96.65 0.000093 1.40 367.46 52.01 0.09 North Main reach 2 152900 40.00 85.22 88.40 North Main 85.96 88.40 0.00005 reach 2 152900 0.56 71.20 100.00 85.22 91.98 28.96 0.06 North Mair 86.37 91.98 0.000020 reach 2 152900 188.00 0.51 195.34 40.41 85.22 0.04 95.21 86.82 North Main 95.21 reach 2 0.000015 152900 515.00 0.55 342.87 50.85 85.22 96.60 0.04 88.03 96.62 0.00006 1.24 418.60 0.08 North Main each 2 150900 40 no 84.97 88.32 North Main 85 46 88.32 0.00003 reach 2 0.44 150900 90.25 100.00 84.97 32.96 0.05 91.95 85.85 91.96 0.000013 reach 2 150900 0.43 233.23 188.00 84.97 45.64 0.03 95.19 95.20 North Mair 86.28 0.000010 reach 2 399.31 150900 515.00 0.47 56.94 84.97 0.03 87.43 96.51 0.000046 1.08 476.18 61.53 0.07 North Main reach 2 150637 40.00 84.27 88.31 85.01 88.31 North Main reach 2 0.000015 150637 0.34 117.07 100.00 37.85 84.27 0.03 91.95 85.36 91.95 North Main reach 2 0.000008 150637 0.36 188.00 279.49 52.07 84.27 0.03 95.19 North Main 85.75 95.19 0.000007 reach 2 150637 0.40 470.28 515.00 84.27 65.38 0.03 96.49 86.81 96.50 0.000046 0.92 561.00 92.25 0.07 North Main reach 2 150569 40.00 84.27 88.30 85,01 North Main 88.30 reach 2 0.000016 150589 100.00 0.34 116.7 37.82 84.27 0.03 91.95 85.36 91.95 North Main reach 2 0.000008 0.36 150589 188.00 279.29 52.06 84.27 95.19 85.75 0.03 95.19 North Main reach 2 0.000007 0.40 150569 515.00 470.05 65.36 84.27 0.03 96.48 86.8 96.50 0.000046 0.92 560.71 92.14 0.07 North Main reach 2 148900 40.00 84 27 88.27 84.79 88.27 North Main 0.000020 reach 2 148900 0.39 101.82 100.00 84,27 91.93 32.38 0.04 North Main 85.20 91 94 reach 2 0.000011 148900 188.00 0.41 244.22 45.30 84.27 95.17 0.03 85.67 North Mair reach 2 95.18 0.000010 148900 0.46 409 54 515.00 56.75 84.27 96.40 0.03 96.42 0.000046 1.07 481.66 61.08 0.07 North Main reach 2 147966 40 00 83.76 88.24 84 95 North Mair 88.24 0.000072 reach 2 0.68 147986 59,17 100.00 83.76 91.92 20.37 0.07 85 61 91.93 North Main 0.000034 reach 2 147966 188.00 0.65 154.11 31.16 83.76 95.16 0.05 North Main 86.29 95 17 0.000027 each 2 147966 0.69 270.97 515.00 41.27 83.76 0.05 96.31 87.99 96.35 0.000129 1.61 320.43 45.43 0.11 North Main each 2 147814 40.00 83.76 88.23 84.77 88.23 North Main reach 2 0.000044 0.55 147814 73.29 100.00 24 60 83.76 91.91 85.35 91.92 0.06 North Main reach 2 0.000021 0.53 47814 187.11 188.00 83.76 37.16 0.04 95.15 85.97 95.16 North Main 0.000017 reach 2 147814 0.58 325.35 515.00 83.76 48.14 0.04 96.30 87.51 96.33 0.000083 1.35 382.74 52.02 0.09 North Main reach 2 146900 40.00 83 26 88,21 84.07 North Main 88.21 0.000018 reach 2 146900 0.39 103.01 100.00 29.99 83.26 91.90 84.58 0.04 North Main reach 2 91.90 0.000011 0.42 146900 188.00 237.55 42.95 63.26 95,14 85.14 0.03 95.15 North Main reach 2 0.000010 146900 0.48 515.00 83.26 395.25 54.33 0.03 96.24 88.55 96.26 0.000052 1.13 456.96 58.18 0.07

HEC DAS Plan: P 10.D, 2 (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (11) (ft) (ft): (ft) (ft/ft) (ft/s) (sq ft) (ft) North Main anh 2 125566 962.00 84.69 78,00 79.88 84.82 0.000318 2.85 0.20 North Main reach 2 125566 1985.00 76.00 87.29 81.48 87.52 0.000373 3.90 916.38 994.32 0.23 North Main reach 2 125580 3435.00 76.00 89.17 83.38 89.26 0.000198 3 24 4662.51 4132.33 0.18 North Main each 2 125568 8788.00 91.28 88.92 91.30 0.000101 2.61 19840.91 9254.02 0.13 North Main reach 2 124578 962.00 76.00 84.42 79.24 84.53 0.000252 2.75 360.00 60.53 0.18 North Main reach 2 124578 1985.00 76.00 86.88 81.00 87.14 0.000378 4.13 521.85 70.76 0.24 North Main reach 2 124578 3435.00 76.00 88.77 82.77 89.00 0.000338 4.42 2567.28 2100.51 0.23 North Main reach 2 124578 8788.00 76.00 90.95 89.11 91.12 0.000389 5.19 8967.59 5474.81 0.25 North Main reach 2 124360 962 00 76,00 84.32 79.51 84.47 0.000326 3.06 324.30 56.45 0.21 North Main reach 2 124360 1985.00 76.00 86.60 81.36 87.08 0.000409 4.22 820.95 448 2B 0.25 North Main 124300 reach 2 3435.00 76.00 88.66 83.15 88.91 4.78 2037.98 2461.63 0.25 North Main 124380 8788.00 76.00 90.96 88.79 91.03 0.000210 3.89 12950.46 5746.89 0.19 North Main reach 2 124036 962.00 76.00 84.22 79.38 84.38 0.000325 3.05 324.35 55.73 0.21 North Main reach 2 124036 1985.00 76.00 86.65 81.22 86.92 0.000428 4.30 759.89 414.58 0.25 North Main reach 2 124036 3435.00 76.00 88.49 0.000442 83.03 88.77 4.93 1894.68 2338.87 0.26 each 2 124036 8788.00 76.00 90.87 88.75 0.000230 4.08 12392.69 5634.80 0.20 North Main each 2 122198 962.00 76.00 83.60 79.14 83.74 0.000356 3.03 322.25 58,15 0.22 North Main reach 2 122198 1985.00 76.00 66.08 80.87 86.23 0.000306 3.52 1454.91 912.78 0.21 North Main reach 2 122198 3435.00 76.00 B8.18 82.63 68.24 0.000166 3.00 4640 25 2088.13 0.16 North Main reach 2 122198 8788.00 76.00 90.51 87.29 90.57 0.000190 3.66 10965.65 5349.84 0.18 North Main 120752 962.00 76.00 82.80 79.42 83.03 0.000713 3.82 252.84 52,00 0.30 reach 2 North Main 120752 1985.00 76.00 85.03 81.24 85.49 0.000910 5.48 379.28 61.73 0.35 North Main reach 2 120752 3435.00 76.00 87.72 63.02 87.89 0.000360 4.24 3099 97 1841.94 0.24 North Main each 2 120752 8788.00 76.00 90.14 87.94 90.24 0.000282 4.33 8307.25 2860,16 0.22 North Mair 120467 reach 2 962.00 76.00 82.62 79.23 82.83 0.000683 3.70 53,78 260,89 0.29 North Mai reach 2 120467 1985.00 76.00 84.79 80.99 85.23 0.000876 5.32 388.08 63.25 0.35 North Main reach 2 3435.00 76.00 87.44 82.74 87.75 0.000536 5.11 2124.62 1724.91 0.29 North Main reach 2 120467 8788.00 76.00 90.08 88.05 90.16 0.000254 4.13 10027.74 4266.64 0.21 North Main reach 2 119740 962.00 76.00 81 61 79.23 81.94 0.001356 4.61 208,56 49.38 0.40 North Main reach 2 119740 1985.00 76.00 83.35 80.98 84.04 0.001847 6.66 301.51 56.98 0.49 North Main reach 2 119740 3435.00 76.00 88.00 82.74 86.90 0.001499 7.70 675.19 2845.75 0.47 North Main reach 2 119740 8788.00 76.00 90.02 87.55 90.03 0.000068 2.13 7382.64 19229.77 0.11 North Main reach 2 119730 962.00 72.00 B1.74 75.11 81.80 0.000099 1.92 534 15 83.04 0.12 North Mair reach 2 119730 1985.00 72.00 83.62 76.74 83.77 0.000202 3.17 725.99 126.07 0.18 North Main reach 2 119730 3435.00 72.00 68.32 78.35 86.56 0.000243 4,08 1369.94 3097 27 0.20 North Main reach 2 119730 8788.00 72.00 90.01 82.35 90.03 0.000049 2.17 20301.08 7455.91 0.10 North Main reach 2 118784 962.00 72.00 81.66 75.11 61.72 0.000102 1.94 527.97 82.66 0.12 1985.00 North Main reach 2 118784 72.00 83.49 76.74 83.61 0.000178 2.94 1266.90 637.70 0.17 North Main reach 2 118784 3435.00 72.00 86.26 78.35 86.36 0.000130 2.97 4007.98 4362 98 0,15 North Main reach 2 118784 8788.00 72.00 89.93 84.22 89.98 0.000083 2.82 11019.67 5112.72 0.12 North Main reach 2 118761 962.00 70.00 81.86 73.45 81.71 0.000084 1.86 548.58 76.91 0.11 North Main each 2 118761 1985.00 70.00 83.49 75.48 83.60 0.000160 2.91 1270.94 635.63 0.16 North Main reach 2 118761 3435.00 70.00 86.25 77.48 86.38 0.000130 3.06 3764.94 1767.63 North Main reach 2 118781 8788.00 70.00 89.92 83.99 89.97 0.000093 3.03 11824 54 2612.52 0.13 North Main reach 2 118735 Culvert North Main reach 2 118709 962.00 70.00 80.64 80.71 0.000128 2.12 470.71 71.54 0.13 North Main reach 2 118709 1985.00 70.00 83.43 83.55 0.000164 2.94 1236 19 623.30 0.16 North Main each 2 118709 3435.00 70.00 88.24 86.34 0.000131 3.07 3740.83 1784.91 0.15 North Main reach 2 118709 8788.00 70.00 89.92 89.97 0.000093 3.03 11825,70 2612.61 0.13 North Main reach 2 118835 962.00 72.00 80.62 80.69 0.000150 2.20 452.55 74.08 0.14 118635 North Main reach 2 1985.00 72.00 83.41 83.53 0.000172 2.93 1249.76 587.64 0.16 North Main reach 2 118635 3435 00 72.00 66.23 66.32 0.000127 2.97 3848 67 1838 33 0.15 North Mair each 2 118635 8788.00 72.00 89.91 89.95 0.000087 2.92 12044.15 2624.32 0.13 North Main each 2 118513 962.00 72.00 80.60 80.68 0.000144 2.18 459.86 89.25 0.14 North Main each 2 118513 1985.00 72.00 83.40 83.51 0.000165 1267.88 571.90 0.16 North Main reach 2 118513 3435.00 72.00 88.21 86.30 0.000128 3.00 3771 47 1808 P1 North Main reach 2 118513 8788.00 72.00 89.89 89.94 0.000089 2.96 11907.77 2606.83 0.13 North Mair reach 2 117690 1120.00 70.00 80 48 73 75 80.57 0.000174 2.70 448.23 64.46 0.16 North Main reach 2 117690 2355.00 70.00 83.08 75.82 63.35 0.000315 4.31 635.42 81.53 0.22 reach 2 North Main 117690 4175.00 70.00 85,57 77.91 86.12 0.0004B7 6.10 862.21 97.61 0.29 North Main reach 2 117690 10250.00 70.00 89,69 83,24 89.85 0.000221 4.88 9359.67 6058.26 0.20 North Main 117193 reach 2 1120.00 70.00 73.66 80.38 80.49 0.000172 2.68 441.96 64.45 0.16 North Main reach 2 117193 2355.00 70.00 82.94 75.71 B3.22 0.000315 4.29 635.52 84.72 0.22 North Main reach 2 117193 4175.00 70.00 85.38 77.78 85.91 0.000479 6.02 1063.02 329.15 0.28 North Main 117193 10250.00 70.00 88.71 83.27 89.81 0.000811 9.03 3697.89 2891.89 0.38 North Main reach 2 116403 1120.00 70,00 60.29 74.20 80.39 0.000175 2.60 475.33 78.91 0.16

| River  | Plan: P 10 f          | River Sta                                   | Q Total            | Min Ch El      | W.S. Elev  | Crit W.S.      | E.G. Elev      | E.G. Slope           | Vel Chnl       | Flow Area             | Top Width          | Froude # Chl |
|--|-----------------------|---|--------------------|----------------|--|----------------|----------------|----------------------|----------------|-----------------------|--------------------|--------------|
|  |                       | 7.93  | (cle)              | (11)           | (ft)   | (ft)           | (ft)           | (ft/ft)              | (ft/s)         | (#g (#)               | (11)               |              |
|  |                       | 1.7 8 7 8                                   | X. 3               |                |  |                |                |                      |                |                       | ,                  |              |
| Yorth Main   | reach 2               | 137249                                      | 482.00             | 78.00          | 87.10  | 80.54          | 87.16          | 0.000092             | 1.97           | 321.05                | 52.99              | 0.12         |
| Vorth Main   | reach 2               | 187249                                      | 1051.00            | 78.00          | 90.06  | 82,09          | 90.19          | 0.000151             | 3.06           | 495.11                | 64.52              | 0.16         |
| Yorth Main   | reach 2               | 137249                                      | 1858,00            | 78.00          | 91.01  | 83.79          | 91.33          | 0,000352             | 4.93           | 557.83                | 67.93              | 0.24         |
| North Main   | reach 2               | 137249                                      | 4804.00            | 78.00          | 92.13  | 88.26          | 93.82          | 0.001684             | 11.41          | 812.87                | 3625.97            | 0.54         |
| **************************************                             |                       |   | 400.00             | 70.00          | 97.40  | 90.44          | 87.15          | 0.000080             | 4.04           | 204.70                | 52.00              |              |
| North Main   | reach 2               | 137150<br>137150                            | 482.00<br>1051.00  | 78.00<br>78.00 | 87.10<br>90.06                                   | 80.41<br>81.88 | 90.17          | 0.000133             | - 1.84<br>2.88 | 334.73<br>510.47      | 53.82<br>64.88     | 0.11         |
| North Main<br>North Main   | reach 2               | 137150                                      | 1859.00            | 78.00          | 91.00  | 83,52          | 91.29          | 0,000312             | 4.65           | 573.13                | 68.37              | 0.10         |
| Vorth Main   | reach 2               | 137150                                      | 4804.00            | 78.00          | 92.02  | 87.85          | 93.63          | 0.001565             | 10.98          | 646.31                | 2219,39            | 0.52         |
| 4C) UT FRIGHT  | 1100AJE               |   | 4504.00            | 70.00          | JE OL  | - 07.00        | 55.00          | 0.007.000            | 10.55          | <u> </u>              | EE10.00            | 0.5          |
| North Main   | reach 2               | 135957                                      | 482.00             | 78.00          | 87.02  | 80.18          | 87.06          | 0.000063             | 1.64           | 365.41                | 57.13              | 0.16         |
| North Majn   | reach 2               | 135957                                      | 1051.00            | 78.00          | 89.93  | 81.52          | 90.03          | 0.000107             | 2.58           | 547.41                | 67.65              | 0.1          |
| North Main   | reach 2               | 135957                                      | 1858.00            | 78.00          | 90.78  | 83.04          | 90.96          | 0.000210             | 3.79           | 1407.88               | 1304.77            | 0.19         |
| North Main   | reach 2               | 135957                                      | 4804.00            | 78.00          | 91,89  | 87.09          | 92.26          | 0.000538             | 6.43           | 3674.90               | 2910.72            | 0.3          |
|  |                       |   |                    |                |  |                |                |                      |                |                       |                    |              |
| North Main   | reach 2               | 185841                                      | 482.00             | 78.00          | 87.00  | 80,23          | 87.05          | 0,000068             | 1.69           | 354.58                | 55.79              | 0.10         |
| North Main   | reach 2               | 135841                                      | 1051.00            | 78,00          | 89.90  | 81.60          | 90.00          | 0,000115             | 2.67           | 531.66                | 66.35              | 0.14         |
| Vorth Main   | reach 2               | 185841                                      | 1858.00            | 78.00          | 90.71<br>91.79                                   | 83.15          | 90.93<br>92.20 | 0.000248             | 4.10           | 1170.01               | 1398.61            | 0.20         |
| Vorth Main   | reach 2               | 135841                                      | 4804.00            | 78.00          | 91./9  | 87.27          | 92.20          | 0.000604             | 6.77           | 3720.93               | 5966.99            | 0.32         |
| Vorth Main   | reach 2               | 135233                                      | 482.00             | 78.00          | 86.97  | 80.32          | 87.01          | 0.000066             | 1.57           | 344.66                | 55.10              | 0.10         |
| North Main   | react 2               | 135233                                      | 1051.00            | 78.00          | 89.85  | 81.73          | 89.94          | 0.000007             | 2.48           |                       | 66.03              | 0.1          |
| North Main   | reach 2               | 135233                                      | 1858.00            | 78,00          | 90.68  | 83.13          | 90.78          | 0.000151             | 3.05           | 2892.15               | 3641.70            | 0.10         |
| North Main   | reach 2               | 135233                                      | 4804.00            | 78.00          | 91.99  | 86.96          | 92.00          | 0.000054             | 1.95           |                       | 9184.68            | 0.0          |
|  | TO MEDICAL TO THE     |   |                    |                |  |                |                |                      |                |                       |                    |              |
| North Main   | reach 2               | 134690                                      | 482.00             | 78.00          | 86.96  | 80.04          | 86.98          | 0.000046             | 1.33           | 404.77                | 63.73              | 0.0          |
| North Main   | reach 2               | 134690                                      | 1051.00            | 78.00          | 89.83  | 81.31          | 89.88          | 0.000069             | 1.99           | 952.03                | 598,72             | 0.1          |
| North Main   | reach 2               | 134890                                      | 1858.00            | 78.00          | 90.86  | 82.63          | 90.71          | 0.000084             | 2.30           |                       | 8803.45            | 0.1          |
| North Main   | reach 2               | 134690                                      | 4804.00            | 78.00          | 91.97  | 86.09          | 91.98          | 0.000041             | 1.73           | 18914.44              | 9799.40            | 0.0          |
| 4 16 5 1 1987 14   |                       | 45 (5 a 4 a 5 a 5 a 5 a 5 a 5 a 5 a 5 a 5 a |                    | ļ              |  |                |                |                      |                | <del> </del>          |                    |              |
| North Main   | reach 2               | 134647                                      | Bridge             |                |  |                | <u> </u>       |                      |                |                       |                    |              |
| u ak 63ka  |                       | 134606                                      | 482.00             | 78,00          | 86,91  | 81,96          | 86.97          | 0.000132             | 2.01           | 314.42                | 70.54              | 0.1          |
| North Main<br>North Main   | reach 2               | 134606                                      | 1051.00            |                | 89.73  | 83.30          | 89.81          | 0.000132             | 2.60           | 1312.26               | <del></del>        | 0.1          |
| North Main   | reach 2               | 134608                                      | 1858.00            |                | 90.62  | 84.81          | 90.66          | 0.000107             | 2.41           | 5385.00               | +                  | 0.1          |
| North Main   | reach 2               | 134606                                      | 4804.00            | 78.00          |  | 90.76          | 91.96          | 0.000042             | 1.64           | 19589.74              | 9786.65            | 0.0          |
| 4 % 98, (2)  | 1 1 1 1 1 1 1 1 1 1 1 |   |                    |                |  |                |                |                      |                |                       |                    |              |
| North Main   | reach 2               | 134537                                      | 482.00             | 78.00          | 86.92  | 80.04          | 86.95          | 0.000047             | 1.33           | 402.39                | 63.57              | 0.0          |
| North Main   | reach 2               | 134537                                      | 1051.00            | 78.00          | 89.73  | 81.31          | 89.79          | 0.000073             | 2.03           | 896.99                | 575.14             | 0.1          |
| North Main   | reach 2               | 134537                                      | 1858.00            | 78.00          | 90.58  | 82.63          | 90.64          | 0.000094             | 2.42           | 4456.30               | 8741.85            | 0.1          |
| North Main   | reach 2               | 134537                                      | 4804.D0            | 78.00          | 91.95  | 86.09          | 91.96          | 0.000043             | 1.76           | 18668.18              | 9780.28            | 0.0          |
|  |                       |   |                    |                |  |                |                |                      |                |                       |                    |              |
| North Main   | reach 2               | 132334                                      | 962.00             |                |  | 81.36          |                | 0.000267             | 2.85           |                       |                    | 0.1          |
| North Main   | reach 2               | 132334                                      | 1985.00            |                | -  | 83.16          |                | 0.000386             | 4.22<br>3.29   | 683.55<br>6637.50     | 2189.99<br>8435.94 | 0.2          |
| North Main   | reach 2               | 132334                                      | 3435.00<br>8788.00 | 78.00<br>78.00 |  | 84.98<br>90.51 | 90.31          |                      | 2.51           | 21366.80              | <del></del>        | 0.1          |
| North Main   | reach 2               | 132334                                      | 8780.00            | 78.00          | 31.73  | 30.31          | 31.00          | 0.000030             | 10.3           | 21000.00              | 3043.13            | 0.1          |
| North Mais   | reach 2               | 131688                                      | 962.00             | 78.00          | 86.37  | 81.34          | 86.49          | 0.000261             | 2.76           | 359.27                | 62.08              | 0.1          |
| North Main   | reach 2               | 131688                                      | 1985.00            | 78.00          |  | 83.09          |                |                      | 3.29           |                       |                    | 0.1          |
| North Main   | reach 2               | 131688                                      | 3435.00            | 78.00          | 1  | 84.81          | 90.18          | 0.000186             | 3.13           | 5859.42               | 7587.70            | 0.1          |
| North Main   | reach 2               | 131688                                      | 8788.00            | 78.00          | 91.71  | 89.69          | 91.73          | 0.000114             | 2.70           | 19220.21              | 8691.70            | 0.1          |
| Taring and the   |                       |   |                    |                |  |                |                |                      |                | <b></b>               |                    |              |
| North Main   | reach 2               | 130701                                      | 962.00             | 78.00          | <del></del>                                      | 80.24          | 86.32          |                      | <del></del>    | 1074.78               |                    | 0.1          |
| North Main   | reach 2               | 130701                                      | 1985.00            |                | +  | 81.50          |                | 0.000099             |                |                       | 1508.80            |              |
| North Main   | reach 2               | 190701                                      | 3435.00            |                |  | 82.88          |                | <del></del>          | <del> </del>   |                       |                    |              |
| North Main   | reach 2               | 130701                                      | 8788.00            | 78.00          | 91.59  | 86.50          | 91.61          | 0.000129             | 2.87           | 17380.88              | 5452.08            | 0.1          |
| North Main   | reach 2               | 130046                                      | 962.00             | 78.00          | 86.07  | 81.30          | 86.21          | 0.000320             | 2.99           | 329.52                | 57.38              | 0.2          |
| North Main   | reach 2               | 130048                                      | 1985.00            | <del></del>    | <del></del>                                      |                |                |                      | <u> </u>       |                       |                    |              |
| North Main   | reach 2               | 130046                                      | 3435.00            |                |  | 84.88          |                |                      | 2.88           |                       | 8136.75            |              |
| North Main   | reach 2               | 130046                                      | 8788.00            | 78.00          |  |                |                |                      |                |                       |                    |              |
| in out the te  | <b>T</b> ERRIEN       |   |                    |                |  |                |                |                      |                |                       | I                  |              |
| North Main   | reach 2               | 128081                                      | 962.00             | 78.00          | 85.42  | 81.03          |                |                      | 3.01           | 323.41                | 215.76             |              |
| North Main   | reach 2               | 128081                                      | 1985.00            |                | -  |                |                | ·                    |                |                       |                    |              |
| North Main   | reach 2               | 128081                                      | 3435.00            |                |  | <del></del>    |                | ·                    |                | +                     |                    |              |
| Yorth Main   | reach 2               | 128081                                      | 8788.00            | 78.00          | 91.43  | 89.09          | 91.44          | 0.000047             | 1.72           | 27397.28              | 9636.69            | 0.0          |
| 3 (1. s. s.)<br>- 1. s. s. s. s.                                   | 4                     |   | ·                  | <u> </u>       |  |                |                |                      |                | J                     | ļ                  |              |
| North Main   | reach 2               | 128032                                      | 962.00             | +              | <del>                                     </del> |                |                | 0.000365             |                | ·                     | <del></del>        | <del></del>  |
| North Main   | reach 2               | 128032<br>128032                            | 1985.00<br>3435.00 | <del>,</del>   | <del> </del>                                     |                |                |                      |                |                       | +                  |              |
| North Main<br>North Main   | reach 2               | 128032                                      | 8788.00            | +              |  | +              | <del></del>    |                      |                |                       |                    |              |
| Tipola in Iran   | 100ULA                | IEDUJE                                      | 5/46.00            | 10.00          | 51.42  | 98.08          | - 31.40        | 0.000047             | † · · · · ·    | 27-400.04             | 2330,00            |              |
| North Main   | reach 2               | 126984                                      | 962.00             | 76.00          | 85.11  | 79.67          | 85.22          | 0.000259             | 2.66           | 361.04                | 1375.32            | 0.           |
| North Main   | reach 2               | 126984                                      | 1985.00            |                |  | <del></del>    | <del></del>    |                      |                |                       |                    |              |
|  | reach 2               | 126984                                      | 3435.00            | +              |  | <del></del>    | <del></del>    |                      | 4              |                       |                    |              |
| North Main   | reach 2               | 126984                                      | 8788.00            |                |  |                | <del></del>    |                      | 1              |                       |                    | 0.           |
|  |                       |   | 1                  | 1              | 1  |                | "              |                      |                | L                     | 1                  |              |
|  |                       |   |                    |                |  |                |                |                      |                |                       |                    |              |
| North Main   | reach 2               | 126599                                      | 962.00             | <del></del>    |  |                |                |                      |                | -                     |                    |              |
| North Main<br>North Main   | reach 2               | 126599                                      | 1985.00            | 76.00          | 87.67  | 81.48          | 87.88          | 0.000334             | 3.79           | 803.21                | 1012.42            | 0.:          |
| North Main<br>North Main<br>North Main<br>North Main<br>North Main |                       | <del></del>                                 |                    | 76.00<br>76.00 | 87.67<br>89.38                                   | 81.48<br>83.39 | 87.86<br>89.46 | 0.000334<br>0.000173 | 3.79           | 9 803.21<br>5 5654.01 | 1012.42            | 0.2          |

| Filver                   | Fleach              | River Sta        | Q Total            | Min Ch El      | W.S. Elev              | Crit W.S.              | E.G. Elev      | E.G. Slope           | Vel Cant     | Flow Area          | Top Width      | Froude # Chi |
|--------------------------|---------------------|------------------|--------------------|----------------|------------------------|------------------------|----------------|----------------------|--------------|--------------------|----------------|--------------|
|                          |                     | - a tara daga da | (cfe)              | (ft)           | (ff)                   | (ft)                   | (ft)           | (ft/ff)              | (ft/a)       | (8q P8)            | (11)           |              |
| North Main               | reach 2             | 145933           | 40.00              | 00.44          | 55.45                  |                        |                |                      |              |                    |                |              |
| North Main               | reach 2             | 145888           | 100.00             | 83.11<br>83.11 | 88.19                  | 83.73                  | 88.20          | 0.000012             | 0.33         | 119.50             |                | 0.03         |
| North Main               | reach 2             | 145333           | 188.00             | 83.11          | 91. <b>89</b><br>95.13 | 84.20<br>84.73         | 91.89<br>95.14 | 0.000008             | 0.38         | 262.16             |                | 0.03         |
| North Main               | reach 2             | 146333           | 515.00             | 83.11          | 96.17                  | 88.08                  | 96.18          | 0.000044             | 1.05         | 429,36<br>491,19   |                | 0.03         |
| 11.5                     |                     | Section 1        |                    |                |                        |                        |                | 5.000                | 7.00         | 431.18             | 01.71          | 0.07         |
| North Main               | reach 2             | 145285           | 40.00              | 83.11          | 88.19                  | 83.73                  | 88.19          | 0.000012             | 0.34         | 119.40             | 32.26          | 0.03         |
| North Main               | reach 2             | 145285           | 100.00             | 63.11          | 91.89                  | 84 20                  | 91.89          | 0.000009             | 0.38         | 282.08             | <del></del>    | 0.03         |
| North Main               | reach 2             | 145285           | 188.00             | 83.11          | 95.13                  | 84.73                  | 95.13          | 0.000008             | 0.44         | 429.24             | 57. <b>83</b>  | 0.03         |
| North Main               | reach 2             | 145205           | 515.00             | 83.11          | 96,17                  | 86.08                  | 96.18          | 0.000030             | 0.87         | 1081.87            | 2255.66        | 0.05         |
| North Main               | reach 2             | 44000            |                    |                |                        |                        |                |                      |              |                    |                |              |
| North Main               | reach 2             | 144900           | 100.00             | 83.06<br>83.06 | 84.19                  | 83.58                  | 88.19          | 0.000007             | 0.27         | 149.53             | 37.62          | 0.02         |
| North Main               | reach 2             | 144900           | 188.00             | 83.06          | 95.13                  | 83.95<br>84.39         | 91.89<br>95.13 | 0.000008             | 0.32         | 310.80             |                | 0.02         |
| North Main               | reach 2             | 144900           | 515.00             | 83.06          | 98.16                  | 85.56                  | 96.17          | 0.000006             | 0.38         | 567.08<br>1749.92  |                | 0.02         |
| 10, 9, 00, 0             | 1 1 1 1 1 1 1 1 1 1 | -970- Q-s s      |                    |                |                        |                        | 30.77          | 0.000013             | 0.12         | 1749.82            | 2346.04        | 0.04         |
| North Main               | reach 2             | 144259           | 482.00             | 78.00          | 88.12                  | 80.37                  | 88.15          | 0.000062             | 1.34         | 360.35             | 49.90          | 0.09         |
| North Main               | reach 2             | 144259           | 1051.00            | 78.00          | 91.79                  | 81.85                  | 91.84          | 0.000079             | 1.88         | 563.69             |                | 0.10         |
| North Main               | reach 2             | 144259           | 1858.00            | 78.00          | 94.98                  | 83.44                  | 95.07          | 0.000097             | 2.51         | 779.84             |                | 0.12         |
| North Main               | reach 2             | 144259           | 4804.00            | 78.00          | 95.37                  | 87.38                  | 95.93          | 0.000558             | 6.12         | 1472.90            | 7690.02        | 0.29         |
| Name of the second       | <del> </del>        | 20 10 10 10 10   |                    |                |                        |                        | <del></del>    |                      |              |                    |                |              |
| North Main               | reach 2             | 144227           | Culvert            |                | <u> </u>               |                        |                |                      |              |                    |                |              |
| North Main               | reach 2             | 144196           | 482.00             | 78.00          | 88.01                  |                        |                | 0.0000               |              |                    |                | ļ            |
| North Main               | reach 2             | 144196           | 1051.00            | 78.00          | 91.21                  | 80.37<br>81.85         | 88.04<br>91.27 | 0.000064<br>0.000096 | 1.36         | 354.91             |                | 0.09         |
| North Main               | reach 2             | 144196           | 1858.00            | 78.00          | 93.20                  | 83.44                  | 93.33          | 0.000098             | 2.00         | 528.29<br>654.60   | 59.88<br>67.09 | 0.11         |
| North Main               | reach 2             | 144196           | 4804.00            | 78.00          | 95.37                  | 87.38                  | 95.90          | 0.000139             | 6.02         | 1658.54            |                | 0.15         |
|                          |                     |                  |                    |                |                        |                        |                |                      |              |                    | 7,023          | 0.25         |
| North Main               | reach 2             | 143788           | 482.00             | 80.00          | 87.93                  | 83.00                  | 87.99          | 0.000188             | 1.95         | 247.64             | 47.48          | 0.15         |
| North Main               | reach 2             | 143766           | 1051.00            | 80.00          | 91.10                  | B4.48                  | 91.20          | 0.000198             | 2.53         | 416.92             | 59.30          | 0.18         |
| North Main               | reach 2             | 143766           | 1858.00            | 80.00          | 93.03                  | 85.9 <b>8</b>          | 93.23          | 0.000287             | 3.55         | 538.16             | 68.48          | 0.20         |
| North Main               | reach 2             | 149768           | 4804.00            | 80.00          | 95.43                  | 89.71                  | 95.55          | 0.000255             | 3.89         | 8006.06            | 8954.63        | 0.20         |
| North Main               | reach 2             | 142844           | 482.00             | 80.00          | 97.70                  |                        |                |                      |              |                    | <u> </u>       | <del> </del> |
| North Main               | reach 2             | 142844           | 1051.00            | 80.00          | 87.78<br>90.94         | 82.81<br>84.19         | 87.83<br>91.03 | 0.000164             | 1.84         | 262.35             |                |              |
| North Main               | reach 2             | 142844           | 1858.00            | 80.00          | 92.79                  | 85.64                  | 92.97          | 0.000178             | 2.41<br>3.42 | 437.12<br>556.38   |                | 0.15         |
| North Main               | reach 2             | 142844           | 4804.00            | 80.00          | 95.33                  | 89.27                  | 95.38          | 0.000122             | 2.72         | 11670.84           | <del></del>    | 0.14         |
| 14 1500                  | and the second      | 44               | -                  |                |                        | -                      |                |                      |              | 1,0,0,0            | 0700.20        |              |
| North Main               | reach 2             | 142821           | Bridge             |                |                        |                        |                |                      |              |                    |                | <del> </del> |
|                          | Selve Services      |                  |                    |                |                        |                        |                |                      |              |                    |                |              |
| North Main               | reach 2             | 142771           | 482.00             | 80.00          | 87.75                  | 82.51                  | 87.80          | 0.000162             | 1.84         | 261.48             | 48.53          | 0.14         |
| North Main               | reach 2             | 142771           | 1051.00            | 80.00          | 90.91                  | 83.97                  | 91.00          | 0.000161             | 2.43         | 433.31             | 60.03          | 0.18         |
| North Main<br>North Main | reach 2             | 142771           | 1858.00            | 80.00          | 92.75                  | 85.52                  | 92.93          | 0.000272             | 3.45         | 549.69             |                | 0.20         |
| TWOTUS MICHIES           | reach 2             | 142771           | 4804.00            | 80.00          | 95.18                  | 89.25                  | 95.30          | 0.000237             | 3.76         | 8202.85            | 8923.66        | 0.19         |
| North Main               | reach 2             | 141205           | 482.00             | 80.00          | 87.52                  | 82.38                  | 87.57          | 0.000145             | 1 77         | 070.47             | 40.54          |              |
| North Main               | reach 2             | 141205           | 1051.00            | 80.00          | 90.64                  | 83.70                  | 90.73          | 0.000145             | 1.77<br>2.38 | 272.17<br>443.14   | 49.51<br>59.96 | 0.13<br>0.15 |
| North Main               | reach 2             | 141205           | 1856.00            | 80.00          | 92.34                  | 85.15                  | 92.52          | 0.000273             | 3.43         | 549.62             |                | 0.20         |
| North Main               | reach 2             | 141205           | 4804.00            | 80.00          | 94.96                  | 88.76                  | 95.01          | 0.000124             | 2.73         | 11456.93           | 8885.64        | 0.14         |
| 1, 15, 34                | 1 T S 8 4 4 4       |                  |                    |                |                        |                        |                |                      |              |                    | 1              |              |
| North Main               | reach 2             | 140152           | 482.00             | 80.00          | 87.33                  | 82.62                  | 87.39          | 0.000198             | 1.94         | 247.95             | 50.27          | 0.15         |
| North Main               | reach 2             | 140152           | 1051.00            | 80.00          | 90.44                  | 84.06                  | 90.53          | 0.000209             | 2.47         | 425.14             | 63.80          | 0.17         |
| North Main               | reach 2             | 140152           | 1858.00            | 80.00          | 92.02                  | 85.54                  | 92.22          | 0.000327             | 3.55         | 531.09             |                | 0.22         |
| North Main               | reach 2             | 140152           | 4804.00            | 80.00          | 94.83                  | 89.15                  | 94.88          | 0.000131             | 2.72         | 11249.01           | 9008.83        | 0.14         |
| North Main               | reach 2             | 140137           | Bridge             |                | — <del></del>          |                        |                |                      |              |                    |                |              |
|                          |                     | 1.0.07           | Diage              |                |                        |                        |                |                      |              |                    |                | <b></b>      |
| North Main               | reach 2             | 140107           | 482.00             | 78.00          | 87.34                  | 80.82                  | 87.37          | 0.000086             | 1.45         | 331,29             | 54.26          | 0.10         |
| North Main               | reach 2             | 140107           | 1051.00            | 78.00          | 90.44                  | 82.15                  | 90.51          | 0.000117             | 2.03         | 519.30             | 66.80          | 0.13         |
| North Main               | reach 2             | 140107           | 1858.00            | 78.00          | 91.90                  | 83.72                  | 92.04          | 0.000209             | 3.03         | 620.76             | 72.71          | 0.17         |
| North Main               | reach 2             | 140107           | 4804.00            | 78.00          | 94.80                  | 87.47                  | 94.83          | 0.000089             | 2.36         | 11295.31           | 6548.51        | 0.12         |
| Aladk KI-1-              |                     | 400074           |                    |                |                        |                        |                |                      | ]            |                    |                |              |
| North Main<br>North Main | reach 2             | 138870           | 482.00<br>1051.00  | 78.00          | 87.24                  | 80.28                  | 87.28          | 0.000066             | 1.69         | 360.32             | 58.15          | 0.10         |
| North Main               | reach 2             | 138870           | 1858.00            | 78.00<br>78.00 | 90.28                  | 81. <b>68</b><br>83.25 | 90.37<br>91.75 | 0.000109             | 2.65         | 548.17             | 67.44          | 0.13         |
| North Main               | reach 2             | 138870           | 4804.00            | 78.00          | 91.52                  | 83.25                  | 91.75<br>94.73 | 0.000237             | 4.17<br>2.82 | 634.63<br>13699.34 | 72.06          | 0.20         |
|                          |                     |                  |                    | 70.00          | 54.70                  | 07.40                  | 34.13          | 0.000061             | 2.02         | 13099.34           | 8905.65        | 0.12         |
| North Main               | reach 2             | 137387           | 482.00             | 78.00          | 87.14                  | 80.28                  | 87.18          | 0.000069             | 1.72         | 354.81             | 55.90          | 0.10         |
| North Main               | reach 2             | 137387           | 1051.00            | 78.00          | 90.11                  | 81.69                  | 90.21          | 0.000115             | 2.69         | 537.5B             | 67.02          | 0.14         |
| North Main               | reach 2             | 137387           | 1858.00            | 78.00          | 91.14                  | 83.26                  | 91.39          | 0.000264             | 4.32         | 608.21             | 70.85          | 0.21         |
| North Main               | reach 2             | 137387           | 4804.00            | 78.00          | 94.26                  | 87.47                  | 94.51          | 0.000311             | 5.42         | 4574.15            | 8308.33        | 0.24         |
|                          | <del> </del>        |                  |                    |                |                        |                        |                |                      |              |                    |                |              |
| North Main               | reach 2             | 137384           | 482.00             | 78.00          | 87.13                  | 80.28                  | 87.18          | 0.000069             | 1.72         | 354.49             | 55. <b>88</b>  | 0.10         |
| North Main               | reach 2             | 137364           | 1051.00            | 78.00          | 90.11                  | 81.69                  | 90.21          | 0.000115             | 2.70         | 537.45             | 67.02          | 0.14         |
| North Main<br>North Main | reach 2             | 137364           | 1858.00<br>4804.00 | 78.00          | 91.13                  | 83.26                  | 91.39          | 0.000265             | 4.33         | 607.89             | 70.83          | 0.21         |
| · ····· or majri         | - OBUITE            | 10100            | +004.00            | 78.00          | 94.25                  | 87.48                  | 94.51          | 0.000312             | 5.43         | 4562.97            | 8303.31        | 0.24         |
| North Main               | reach 2             | 137349           | Bridge             |                |                        |                        |                |                      |              |                    |                | <del></del>  |
|                          | <u></u>             |                  | 2/1199             |                |                        |                        |                |                      |              |                    |                |              |
| North Main               | reach 2             | 137334           | 482.00             | 78.00          | 87.12                  | 80.28                  | 87.16          | 0.000069             | 1.72         | 353.51             | 55.82          | 0.10         |
| North Main               | reach 2             | 137334           | 1051.00            | 78.00          | 90.11                  | 81.69                  | 90.21          | 0.000115             | 2.70         | 537.07             | 67.00          | 0.14         |
| North Main               | reach 2             | 137334           | 1858.00            | 78.00          | 91.12                  | 83.26                  | 91.38          | 0.000266             | 4.33         | 608.91             | 70.78          | 0.21         |
| North Main               | reach 2             | 137334           | 4804.00            | 78.00          | 93.72                  | 87.47                  | 94.24          | 0.000551             | 7.05         | 2875.34            | 7114.79        |              |

| River 6                               | Plan: P 10 F<br>Reach                     | River Sta    | Q Total            | Min Ch El   | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chni    | Flow Area         | Top Width        | Froude # Chi |
|---------------------------------------|---|--------------|--------------------|-------------|-----------|-----------|-----------|------------|-------------|-------------------|------------------|--------------|
|                                       |   |              | (cfs)              | (11)        | (ħ)       | (ft)      | (ft)      | (fl/ft)    | (tl/s)      | (8q ft)           | (ft)             | 0.22         |
| orth Main                             | reach 2                                   | 116403       | 2355,00            | 70.00       | 82.78     | 76.04     | 83.02     | 0.000301   | 4.07        | 724.07<br>1394.65 | 120.77<br>504.22 | 0.27         |
| orth Main                             | reach 2                                   | 116403       | 4175.00            | 70.00       | 85.19     | 77.98     | 85.61     | 0.000420   | 5.50        | 4194.49           | 3561.11          | 0.39         |
| orth Main                             | reach 2                                   | 116403       | 10250.00           | 70.00       | 88.24     | 82.86     | 89.11     | 0.000822   | 8.84        | 4194.49           | 3301.11          | 0.39         |
|                                       |   | 12           | 4400.00            | 70.00       | 80.27     | 73.29     | 80.35     | 0.000125   | 2.30        | 545.26            | 90.59            | 0.14         |
| orth Main                             | reach 2                                   | 118181       | 1120.00            | 70.00       | 82.75     | 75.16     | 82.94     | 0.000123   | 3.65        | 829.76            | 141.45           | 0,19         |
| orth Main                             | reach 2                                   | 118181       | 2355.00<br>4175.00 | 70.00       | 85.17     | 77.13     | 85.50     | 0.000319   | 4.92        | 1563.74           | 532.45           | 0.23         |
| orth Main                             | reach 2                                   | 116161       | 10250.00           | 70.00       | 88.12     | 82.12     | 88.89     | 0.000692   | 8.24        | 4220.98           | 3562.90          | 0.35         |
| lorth Main                            | reach 2                                   | 110101       | 10250.00           | 70.00       | 56.12     | - OZ. 12  |           | 0.000002   |             |                   |                  |              |
|                                       |   | 115322       | 1120.00            | 70.00       | 80.16     | 74.01     | 80.24     | 0.000134   | 2.39        | 913.43            | 548,07           | 0.14         |
| lorth Main                            | reach 2                                   | 115322       | 2355.00            | 70.00       | 82.71     | 75.78     | 82.77     | 0.000115   | <del></del> | 2779.64           | 929.35           | 0.14         |
| orth Main                             | reach 2                                   | 115322       | 4175.00            | 70.00       | 85.22     | 77.95     | 85.27     | 0.000102   |             | 5881.33           | 1879.77          | 0.13         |
| lorth Main                            | reach 2                                   | 115322       | 10250.00           | 70.00       | 88.50     | 82.27     | 88.53     | 0.000072   |             | 17771.27          | 5546.64          | 0.12         |
| North Main                            | reach 2                                   | 110062       | 10230,00           | 70.00       |           |           |           |            |             |                   |                  |              |
| 6.4.44.4                              | reach 2                                   | 115218       | 1120.00            | 70.00       | 80.16     | 73.19     | 80.23     | 0.000097   | 2.13        | 948.28            | 487.47           | 0.12         |
| Vorth Main<br>Vorth Main              | reach 2                                   | 115218       | 2355.00            | 70.00       | 82.70     | 74.98     | 82.77     | 0.000102   | 2.56        | 2714.45           | 920.13           | 0.13         |
| Vorth Main                            | reach 2                                   | 115218       | 4175.00            | 70.00       | 85.21     | 77.05     | 85.27     | 0.000095   | 2.80        | 5791.29           | 1865.26          | 0.13         |
| Vorth Mairi                           | reach 2                                   | 115218       | 10250.00           | 70.00       | 88.50     | 82.15     | 88.53     | 0.000071   | 2.77        | 17768.03          | 5538,21          | 0.12         |
| WHEN THEMP                            | S. A. A.                                  | Last and     |                    |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 2                                   | 115057       | 1120.00            | 70.00       | 80.17     | 73.09     | 80.20     | 0.000061   | 1,69        | 2065.88           | 1196.54          | 0.10         |
| North Main                            | reach 2                                   | 115057       | 2355.00            | 70.00       | 82.72     | 74.83     | 82.74     | 0.000040   | 1.60        | 6213.06           | 2266.73          | 0.08         |
| Vorth Main                            | reach 2                                   | 115057       | 4175.00            | 70.00       | 85.23     | 76.81     | 85.24     |            | 1.49        | 14057.59          | 4330.41          | 0.07         |
| Vorth Main                            | reach 2                                   | 115057       | 10250.00           | 70.00       | 88.50     | 80.91     | 88.51     | 0.000020   | 1.47        | 30458.94          | 6911.07          | 0.06         |
|                                       |   |              |                    |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 2                                   | 114848       | 1120.00            | 70.00       | 80.15     | 72.89     | 80.18     | 0.000046   | 1,41        | 2753.69           | 2275.53          | 0.08         |
| North Main                            | reach 2                                   | 114848       | 2355.00            | 70.00       | 82.71     | 74.60     | 82.72     |            | 1.12        | 8613.90           | 4118.85          | 0.06         |
| North Main                            | reach 2                                   | 114848       | 4175.00            | 70.00       | 85.23     | 76.48     | 85.24     |            | 1.05        | 17259.12          | 7138.80          | 0.05         |
| North Main                            | reach 2                                   | 114848       | 10250.00           | 70.00       | 88.50     | 80.65     | 88.50     |            | 1.19        | 34336.93          | 13492.66         | 0.05         |
| NOTES MORE                            |   |              |                    |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 2                                   | 114615       | 1120.00            | 70.00       | 80.12     | 72.77     | 80.15     | 0.000058   | 1.58        | 2172.96           | 2232.55          | 0.09         |
| North Main                            | reach 2                                   | 114615       | 2355.00            | 70.00       |           | 74.43     | 82.72     | 0.000021   | 1.12        | 8686.71           | 4132.87          | 0.06         |
| North Main                            | reach 2                                   | 114615       | 4175.00            | 70.00       | 85.23     | 75.24     | 85.23     | 0.000013   | 1.02        | 17725.71          | 7088.72          | 0.05         |
| North Main                            | reach 2                                   | 114615       | 10250.00           | 70.00       | 88.49     | 81.02     | 88.49     | 0.000013   | 1.16        | 35530.34          | 12778.40         | 0.05         |
| TOTAL SERVICE                         | TOTAL C                                   | 3 3 3        |                    |             |           | -         |           |            |             |                   |                  | L            |
| North Main                            | reach 2                                   | 114600       | Bridge             |             |           |           |           |            |             |                   |                  | L            |
|                                       |   |              |                    |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 2                                   | 114585       | 1120.00            | 70.00       | 80.10     | 72.77     | 80.14     | 0.00005    | 1.60        | 2130.30           | 2221.68          |              |
| North Main                            | reach 2                                   | 114585       | 2355.00            | 70.00       | 82.69     | 74.43     | 82.70     | 0.00002    | 1.13        | 8674.70           | 4117.79          |              |
| North Main                            | reach 2                                   | 114585       | 4175.00            | 70.00       | 85.21     | 76.24     | 85.21     | 0.00001    | 3 1.02      | 17707.03          | 7049.29          |              |
| North Main                            | reach 2                                   | 114585       | 10250.00           | 70.00       | 88.46     | 80.98     | 88.4      | 0.00001    | 3 1.16      | 35559.78          | 12733.41         | 0.05         |
| 15 - 17 - 18A -                       |   |              |                    |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 2                                   | 114500       | 1120.00            | 70.00       | 80.10     | 72.77     | 80.13     | 0.00006    | 1.61        | 2121.43           | 2219.25          |              |
| North Main                            | reach 2                                   | 114500       | 2355.00            | 70.00       | 82.68     | 74.43     | 82.69     | 0.00002    | 1 1.12      |                   | 4159.43          | +            |
| North Main                            | reach 2                                   | 114500       | 4175.00            | 70.00       | 85.20     | 76.24     | 85.20     | 0.00001    | <del></del> | 18046.63          | 7031.50          |              |
| North Main                            | reach 2                                   | 114500       | 10250.00           | 70.00       | 88.45     | 80.95     | 88.4      | 0.00001    | 3 1.14      | 36167.68          | 12718.41         | 0.05         |
|                                       | rapata Maria                              | A Para Maria |                    |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 2                                   | 113500       | 1120.00            | 70.00       | 79.97     | 72.96     | 80.0      |            |             |                   | 71.49            |              |
| North Main                            | reach 2                                   | 113500       | 2365.00            | 70.00       | 82.66     |           |           |            |             | 8432.34           | 4114.36          |              |
| North Main                            | reach 2                                   | 113500       | 4175.00            | 70.00       |           |           | 85.1      |            |             |                   | 8099.5           |              |
| North Main                            | reach 2                                   | 113500       | 10250.00           | 70.00       | 88.45     | 81.62     | 88.4      | 5 0.00001  | 3 1.13      | 37696.48          | 12776.29         | 0.0          |
|                                       | a Complete Sing                           |              |                    |             |           | <u> </u>  | -         |            |             |                   | 44.0             |              |
| North Main                            | reach 3 (south)                           | 315798       | 410.00             | +           |           |           |           |            |             |                   | 41.3             |              |
| North Main                            | reach 3 (south)                           | 315796       | 573.00             |             |           |           |           |            |             |                   | 47.5             |              |
| North Main                            | reach 3 (south)                           | 315796       | 770.00             |             |           |           |           |            |             |                   | 52.89<br>299.6   |              |
| North Main                            | reach 3 (south)                           | 315796       | 1392.00            | 90.8        | 7 104.32  | 95.86     | 104.4     | 0.00020    | 1 2.33      | 833.94            | 299.6            | 9.1          |
| Jan 150                               | 5 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |              |                    | <u> </u>    |           |           |           | 2 2004     | . 10        | 240.06            | 49.4             | 0.1          |
| North Main                            | reach 3 (south)                           | 315434       | 410.00             |             |           |           |           |            |             | +                 |                  |              |
| North Main                            | reach 3 (south)                           | 315434       | 573.00             |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 315434       | 770.00             |             |           |           |           |            |             | +                 |                  |              |
| North Main                            | reach 3 (south)                           | 315434       | 1392.00            | 90.8        | 7 104.36  | 95.4      | 104.3     | 0.00002    | 0.74        |                   | 106.4.7          | 1            |
|                                       |   |              |                    |             | 00.0      | 02.4      | 8 98.1    | 0.00041    | 4 2.44      | 233.66            | 45.4             | 5 0.1        |
| North Main                            | reach 3 (south)                           | 315287       | 569.00             |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 315287       | 889.00             | -           |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 315287       | 1298.00            |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 315287       | 2652.00            | 90.3        | 2. 103.9  | 97.5      | 104.3     | 0.00060    | 7.00        | 372.00            | 33.0             | 1            |
|                                       |   | -            |                    |             | 5 97.4    | 93.0      | 3 97.5    | 0.00050    | 7 2.6       | 213.51            | 41.8             | 9 0.2        |
| North Main                            | reach 3 (south)                           | 314000       | 569.0              |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 314000       | 889.0              |             |           |           |           |            |             |                   | <del></del>      |              |
| North Main                            | reach 3 (south)                           | 314000       | 1298.0             |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 314000       | 2652.0             | 5 69.9      | 102.5     | a1.2      | 193.0     | 0.0072     |             | 1                 |                  |              |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - 8 co 6 cm                               | 010000       | F00.0              | DC 0        | 5 97.3    | 3 93.0    | 3 97.4    | 0.00052    | 28 2.7      | 210.31            | 41.6             | 2 0.2        |
| North Main                            | reach 3 (south)                           | 313862       | 569.0              |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 313862       | 889.0              |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 313862       | 1298.0             |             |           |           |           |            |             |                   |                  | -            |
| North Main                            | reach 3 (south)                           | 313862       | 2652.0             | 0 89.9      | 102.3     | 91.2      | 102.0     | 3.0010     | 5.7         | 100.70            |                  |              |
|                                       |   | - lauren     | F00 0              | 0 000       | 3 96.4    | 9 91.8    | 6 96.5    | 58 0.0004  | 00 2.4      | 3 234.30          | 44.4             | IO 0.1       |
| North Main                            | reach 3 (south)                           | 312000       | 569.0              |             |           |           |           |            |             |                   | 1                |              |
| North Main                            | reach 3 (south)                           | 312000       | 889.0              |             |           |           |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 312000       | 1298.0             | <del></del> |           | _         |           |            |             |                   |                  |              |
| North Main                            | reach 3 (south)                           | 312000       | 2652.0             | 89.0        | 102.5     | 93.8      | 102.      | 5.0000     |             |                   | T                |              |
| North Main                            |   | 4 2 22       |                    |             | 28 96.3   | 0 90.7    | 7 96.     | 35 0.0001  | 94 1.7      | 9 318.63          | 3 57.1           | 9 0.1        |
|                                       | reach 3 (south)                           | 311185       | 569.0              | 0 88.2      | 28 96.3   |           |           |            |             |                   | 65.1             | 8 0.         |

E.G. Slope River Str Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Chni Flow Area Top Width Froude # Chi (cfa) (11) (H) (ft)  $(\hbar/\hbar)$ (IVs) (sq ft) North Main reach 3 (eouth 311185 1298.00 88.28 99 96 92.37 100.04 0.000220 2 33 557.05 73 12 0.15 North Main reach 3 (south) 311185 2652.00 88.28 102.48 94.45 102.50 0.000043 1.14 7392.17 3587.45 0.07 North Mair 311119 569.00 88.26 98.29 90.77 ach 3 (south) 96.34 0.000195 1.79 317.87 57.14 0.13 North Main reach 3 (aouth) 889.00 88.28 98.12 98.19 0.000208 429.84 311119 91.55 2.07 65.12 0.14 North Meir reach 3 (south) 1298.00 92.37 100.03 2.33 555.95 73.00 0.15 North Mair reach 3 (south) 68.28 311119 2652.00 102.49 102.50 0.000043 3587.31 0.07 North Main reach 3 (south) 310000 569.00 88.03 96 04 90.58 96 10 0.000235 1 99 285.74 48 91 0.15 North Main reach 3 (south) 310000 889.00 88.03 97.84 91.36 97.92 0.000263 2.34 379.22 54.87 0.16 1298.00 North Main reach 3 (south) 310000 88.03 99.63 92.23 99.75 0.000289 2.69 482.97 60.69 0.17 North Main reach 3 (south) 2652.00 88.03 94.45 0.00008 6497.51 310000 102.43 1.33 3211.86 102.44 0.08 95.60 48.06 North Main reach 3 (south) 308000 569.00 87.73 95.54 90.26 0.000260 2.07 275.22 0.15 0.000294 North Mai 202000 00 Q8B 87.73 97.27 91.07 97.37 2.44 363.65 53.76 0.17 reach 3 (south North Main reach 3 (south) 308000 1298.00 87.73 99.01 91.93 99.13 0.000326 2.81 481.85 59.48 0.18 North Main reach 3 (south) 308000 2652.00 87.73 102.26 94.15 102.28 0.000087 1.66 5631.20 3536.34 0.09 North Main 569.00 reach 3 (south) 87.73 95.26 90.64 0.000419 2.45 307236 95.35 231,79 44.90 0.19 reach 3 (south) 307236 889.00 87.73 96.96 91,54 97.09 0.000448 2.83 314,06 51.55 0.20 North Main 1298.00 87.73 98.87 92.47 98.83 reach 3 (south 0.000470 3.18 407.67 57.79 0.21 ch 3 (south) North Mair 2652.00 87.73 102.10 94.78 102.15 0.000418 2.37 2671.78 2607.12 0.19 307236 North Mair 307136 87.73 reach 3 (south) 569.00 95.21 90.64 95.31 0.000429 2.48 229.78 44.73 0.19 North Main 307136 889.00 87.73 91.54 0.000458 311.58 reach 3 (south) 96.92 97.04 2.85 51.36 0.20 reach 3 (south) 307136 1298.00 87.73 98.62 98.78 3.21 57.62 92.47 0.21 each 3 (south) **North Mair** 307156 2652,00 87.73 102.05 94.76 102.11 0.00045 2.46 2547.95 2499.39 0.20 North Main sch 3 (south 569.00 86.38 94 67 90.08 94.78 0.000502 2 65 214 49 42 05 0.21 North Main reach 3 (south) 305000 889.00 86.38 96.33 91.07 96.47 0.000548 3.07 289.23 48.33 0.22 1298.00 North Main 0.000581 375.28 54.75 reach 3 (south 306000 86.38 98.00 92.08 98.18 3.48 0.23 North Main 86.38 94.52 101.03 4.74 559.58 66.51 0.29 2652.00 101.38 0.000835 ich 3 (south) North Mair reach 3 (south) 304000 569.00 86.38 93.77 89.22 93.86 0.000420 2.47 230.69 44.48 0.19 0.000483 North Main each 3 (south 304000 889 00 86.39 95.31 90.10 95.44 2.93 303.41 49 84 0.21 North Main each 3 (south 304000 1298.00 86.39 96.89 91.02 97.07 0.000531 3.36 386.81 55.36 0.22 North Main reach 3 (south) 304000 2652.00 86.39 99.17 93.30 99.57 0.000986 5.08 521.62 63.26 0.31 54.82 North Main 302338 569.00 86.39 93.04 89.14 0.000466 2.38 239,21 0.20 reach 3 (south) 93.12 North Main 889.00 86.39 94.51 89.94 94.63 0.000491 2.72 63.36 0.21 reach 3 (south) 302338 326.29 North Main each 3 (eouth) 302338 1298.00 86.39 96.08 90.78 96.22 0.00048 3.00 432.22 0.22 North Main 0.000088 5321.13 each 3 (south) 2652.00 86.39 99.07 92.81 99,08 1.03 2125.54 0.09 North Main reach 3 (south) 302274 569.00 86.39 92.97 89.45 93.09 0.000699 2.71 209.71 53.34 0.24 North Main reach 3 (south) 302274 889.00 86.39 94.45 90.31 94.59 0.000664 3.02 293.94 60.94 0.24 69.63 North Main 86.39 reach 3 (south) 302274 1298.00 96.01 91.23 96,18 0.000629 3.28 395.83 0.24 2018.01 4050.19 0.12 North Main reach 3 (south) 302274 2852.00 86.39 99.05 93.33 99.07 0.000144 1.84 301922 North Mair reach 3 (south 569.00 86.30 92 82 AA AA 92 90 0.000386 2 24 253 92 52 64 D 18 North Main reach 3 (south 301922 889.00 86.39 94.29 89.41 94.40 0.000413 2.65 335.38 58.84 0.20 North Main reach 3 (south) 301922 1298.00 66.39 95.85 90.19 95.99 0.000437 3.01 431.69 64.7B 0.21 North Mair reach 3 (south) 301922 2652.00 86.39 98.97 92.18 99.01 0.000178 2.13 3472.22 2124.79 0.13 52.84 North Mair reach 3 (south) 301915 569.00 86.39 92.82 88.66 92.89 0.000357 2.22 256.67 0.18 89.38 0.000401 North Main 94.39 2.63 338.17 58 49 0.19 reach 3 (south) 301915 889.00 86.39 94.28 North Main reach 3 (south 301915 1298.00 86.39 95.84 90.15 95.98 0.000429 2.99 434.17 64.62 0.20 North Mair reach 3 (south) 301915 2652.00 86.39 98.98 92.13 99.00 0.000118 1.59 4746.56 2553.02 0.11 255.68 52.77 North Mair 301865 88.66 2.23 0.18 reach 3 (south 569.00 86.39 92.80 92.87 0.000361 94.28 North Mair reach 3 (south) 301865 889.00 86.39 89.38 94.37 0.00040 2.64 336.94 58.41 0.19 North Main 90.15 0.000433 3.00 432.70 64,72 0.20 reach 3 (south 1298.00 86.39 95.81 95.95 North Mai 2652.00 86.39 92.13 0.000119 1.59 4730.86 2552 40 0.11 reach 3 (south 301865 98.98 98.99 North Main reach 3 (south 301721 569.00 86.39 92.68 89.08 92.80 0.000637 2.80 203.41 45.33 0.23 51.58 North Main 273.19 0.25 reach 3 (south) 301721 889.00 86.39 94.12 89.90 94.29 0.000695 3.25 North Main 95.67 90.77 358.04 58.28 0.26 reach 3 (south) 301721 1298.00 86.39 95.87 0.000711 3.63 1285.32 North Main reach 9 (south) 301721 2652.00 86.39 98.89 92.95 0.000420 2.74 2258.75 0.20 North Mair reach 3 (south) 301655 569.00 86.39 92.64 89.08 92.76 0.000659 2.83 201.35 45.13 0.24 North Main reach 3 (south) 301655 889.00 86.39 94.07 89,90 94.24 0.000713 3.29 270.62 51,36 0.25 58.06 3.66 0.26 North Mair reach 3 (south) 301655 1298.00 86.39 95.61 90.78 95.82 0.000728 355.06 North Main 301655 2237.75 1284,51 0.20 reach 3 (south) 2652.00 86.39 98.87 92.95 98.94 0.000464 2.61 569.00 88.74 3.73 152.58 40.80 0.34 reach 3 (south) 300000 86.39 90.99 91.20 0.001441 300000 North Main reach 3 (south) 889.00 86.39 92.35 89.50 92.63 0.001382 4.21 211.34 45.24 0.34 North Mair reach 3 (south 300000 1298.00 86.39 93.96 90.32 94 28 0.001226 4.50 288.24 50.42 0.33 North Main reach 3 (south) 300000 2652.00 86.39 97.20 92.41 97.69 0.001331 5.66 468.16 60.85 0.36 44.81 North Main 4.37 130.23 0.45 each 3 (south) 569.00 86.39 89.70 88.37 90.00 0.002731 50.11 0.35 North Main reach 3 (south) 299385 889.00 86.39 91.47 89.04 91.74 0.001513 4.16 213.85 4.20 0.001087 North Mair 1298.00 66,39 93.20 89.75 93.55 308 85 54.66 0.31 North Mair each 3 (south) 299385 86.39 96.46 91.65 96.90 0.001193 5.37 493,72 63.33 0.34

Plan: P.10.D.2 (Continued) Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cla) (ft) (ft) (ft) (ft/ft) (tVa) (sq ft) (ft) North Mair each 3 (south) 299378 Inline We North Mair ach 3 (south) 569.00 83.41 89.69 85.93 89,81 0.000576 2.74 207.54 43.06 0.22 reach 3 (south) North Main 299365 889,00 83.41 91.46 86.72 91.61 0.000559 3.08 286.53 48.65 0.22 North Main reach 3 (south) 299365 1298.00 83.41 93.27 87.58 93.45 0.000548 3.40 381.83 54.28 0.23 North Main reach 3 (south) 299385 2652.00 83,41 96.78 0.000774 4.67 568.43 84.49 0.28 North Mair reach 3 (south) 298000 569.00 81.06 89.31 83.76 89.36 0.000196 55.58 1.81 314.52 0.13 North Main reach 3 (south) 298000 889.00 81.06 91.06 84.53 91.13 0.000219 2.13 417.90 62.70 0.15 North Main reach 3 (south) 1298.00 81.06 92.87 85.37 92.96 0.000235 2.41 537.60 70.05 0.15 North Mair ach 3 (south) 2652.00 81.06 95.82 87.47 96.01 0.000381 3.48 782.64 82.10 0.20 North Main reach 3 (south) 297659 569.00 81.21 89.26 89.30 0.000165 1.64 345.97 62 94 0.12 North Main 91.00 reach 3 (south) 297658 889.00 B1 21 84.51 91.06 0.000178 1.92 462.05 70.12 0.13 North Main reach 3 (south) 297659 1298.00 81.21 92.81 85.28 92.88 0.000189 2.18 595.10 77.62 0.14 North Mair each 3 (south) 297659 2652.00 81.21 95.73 87.23 95.88 0.000307 3.15 840.66 90.28 0.18 North Main each 3 (south) 297557 569.00 81.21 89.24 83.77 89.28 0.000166 1.65 344 89 62.87 0.12 North Mair ech 3 (south 297557 889.00 81.21 90.98 84.51 91.04 0.000180 1.93 480.74 70.04 0.13 North Main reach 3 (south) 297557 1298.00 81.21 92.79 85.28 92.86 0.000190 2.19 593.56 77.53 0.14 North Main reach 3 (south) 297557 2652.00 81.21 95.70 87.23 0.000310 3.17 837.70 90.14 0.18 North Main reach 3 (south) 298000 569.00 80.22 89.01 82.79 89.05 0.000133 1.58 360.63 58.13 0.11 North Main reach 3 (south) 296000 889.00 80,22 90.72 **B3.57** 90 78 0.000150 1.91 465,01 64.06 0.13 North Main reach 3 (south) 1298.00 80.22 92.49 84,40 92.57 0.000181 2.22 583 95 70.23 0.14 reach 3 (south) North Main 296000 2652.00 80.22 95.34 86.38 1190.66 95.43 0.000218 2.73 2012 02 0.15 North Main reach 3 (south) 294000 569.00 80 54 88 88 83.32 88.73 0.000186 1.75 324.64 58.20 0.13 North Main reach 3 (south) 294000 869.00 80.54 90.34 84.09 90.41 0.00021 2,09 425.76 64.00 0.14 North Main reach 3 (south) 294000 1298.00 80.54 92.07 84.89 92 16 0.00022 2.40 541.46 70.05 0.15 North Main each 3 (south) 294000 2652.00 80.54 94.63 86.85 94.84 0.000416 3.62 733.03 79.39 0.21 North Main reach 3 (south) 292000 569.00 80.24 88.35 82.68 88.39 0.000160 1.64 347.83 62.15 0.12 North Main reach 3 (south) 292000 889 00 80.24 89.95 83.43 90.01 0.00018 1.97 452.09 67.65 0.13 North Main reach 3 (south) 292000 1298.00 80.24 91.64 84.23 91.72 0.00020 2.27 571.30 73.44 0.14 North Main reach 3 (south) 292000 2652.00 80.24 93.80 86.21 94.00 3.59 737.90 80.87 0.21 North Main 290823 reach 3 (south) 569.00 80.24 88.14 82.70 88.18 0.000189 1.76 324.13 58.83 0.13 North Main reach 3 (south) 689.00 80.24 89.70 83.46 89.77 0.000224 2.11 422.02 65,92 0.15 290823 North Main reach 3 (south) 1298.00 80.24 91.37 84.26 91.46 0.000247 2.41 537 99 73,44 0.16 North Main reach 3 (south) 2652.00 80.24 93.41 86,27 93.53 0.000350 3.15 1414.73 529.95 0.19 North Main reach 3 (south) 290745 569.00 80.24 88.12 82.70 88.17 0.000190 1.76 323.24 58.77 0.13 North Main reach 3 (south) 290745 889.00 80.24 89.69 83.46 89.76 0.000226 2.11 420.84 65.84 0.15 North Main reach 3 (south) 290745 1298.00 80.24 91.35 84.27 91.44 0.000248 2.42 536.53 73.35 0.16 290745 2652.00 reach 3 (south) 80.24 93.38 86.27 93.50 0.000385 3.14 1399.83 528.53 0.20 North Main reach 3 (south) 290000 569.00 80.24 82.40 0.000156 88.04 1.65 344.71 59.01 0.12 North Main reach 3 (south) 290000 889 00 80.24 89.54 83.10 0.000192 2.02 439.75 64.45 0.14 North Main reach 3 (south) 290000 1298.00 80.24 91.18 83.85 91.27 2.36 550.41 70.27 0.15 North Main reach 3 (south) 290000 2652.00 80.24 93.12 85.78 93.24 0.000322 3.12 1783.28 1147.92 0.1B North Main reach 3 (south) 288232 569.00 80.38 87.69 82.52 87.74 0.000183 1.71 332.27 61.39 0.13 North Main reach 3 (south) 288232 889.00 80.38 89.17 83.21 89.24 0.000222 2.08 427 44 67.79 0.15 North Main reach 3 (south) 1298.00 80.38 288232 83.94 90.86 0.000246 2.40 541.32 74.73 0.16 North Main reach 3 (south) 2652.00 80.38 288232 92.71 92.76 0.000203 3217.41 2.39 2435.9 0.15 North Main 288165 569.00 reach 3 (south) 80.38 87.68 82.52 87 73 0.000184 1.72 331.50 61.33 0.13 North Main reach 3 (south) 288165 889.00 80.38 89.15 83.21 89.22 0.000223 2.08 426,40 67.72 0.15 North Main reach 3 (south) 1298.0 80.38 90.75 83,94 90.84 0.000248 2.40 540.05 74.66 0.16 North Mair reach 3 (south) 288165 2652.0 80.38 92.70 85.85 92.75 0.000205 2.40 3195.91 2421.62 0.15 North Main reach 3 (south) 288000 569.00 80.38 87.63 82.62 87.69 0.00023 1.95 291.92 52.81 0,15 North Main reach 3 (south) 288000 889.00 80.38 89.09 83.34 89.18 0.000293 2.39 372.39 57.85 0.17 North Main reach 3 (south) 288000 1298.00 80.38 90.67 84.14 90.79 0.00033 468.24 2.77 63.34 0.18 North Main 2652.00 each 3 (south) 268000 80.38 3049.28 92.70 86.17 92.71 0.000149 1.30 5083.19 0.11 North Main reach 3 (south) 286697 1044.00 80.37 82.89 87.30 0.000456 2.68 389.81 73.49 0.20 North Main each 3 (south) 286897 1567.00 80.37 88.56 83.65 88,71 0.000522 3.17 495.03 80.16 0.22 North Main reach 3 (south) 286897 2228.00 80.37 90.09 84.48 90.29 0.000549 623.08 86.90 0.24 North Main 286897 reach 3 (south) 4412.00 80.37 92 30 86 61 92.42 0.000458 2071.95 0.22 reach 3 (south) 286000 1044.00 80.36 86.65 B2.98 86.81 0.000659 3.13 333.79 65 67 0.24 North Main reach 3 (south) 286000 1567.00 80.36 87.93 83.74 88.14 0.000763 3.72 420.77 70.79 0.27 North Mair each 3 (south 266000 2228.0 80.36 89.42 84.58 89.69 0.000797 4.20 530.32 76.49 0.28 North Main reach 3 (south) 286000 4412.00 80.36 91.58 0.000818 4.79 2375.36 2202.79 0.29 North Main reach 3 (south) 284529 1044.00 80.36 83.43 83.06 84 33 0.009023 7.61 137.11 51.53 0.82 284529 North Main reach 3 (south) 1567.00 80.36 85.29 83.84 85.95 0.003854 6.51 240.78 59.95 0.57 284529 reach 3 (south) 2228.00 80.36 87.18 84.71 87.77 0.002406 6.14 362.72 68.72 0.47 North Main 4412.00 reach 3 (south) 80.36 90.51 86.91 90.58 0.000837 2.97 3269.05 2199.42 0.27 North Main reach 3 (south) 284517 Inline Weir

| 61.0        | 2953.50       | SE. 7878        |  | 102000.0             | 55.58            | 06.97          | 85.48          | 75.07       |                | -                |   |                                 |
|-------------|---------------|-----------------|--|----------------------|------------------|----------------|----------------|-------------|----------------|------------------|---|---------------------------------|
| 62.0        | 96.08         | 11,688          | 80.4   | \$18000.0            |                  | \$9.47         | 92.08<br>SA C8 | 75.07       | 95337.00       | 000              |   |                                 |
| 0.23        | 90.87         | 548.72          | 3.52   | 11-2000.0            | 62.67            | 08.87          | 60.67          | 75.07       | 2703.00        | 000              |   |                                 |
| 15.0        | 28.17         | 442.56          | S8.S   | 0.0000.0             |                  | \$3.02         | 89.77          |             | 1925.00        | 000              |   | n nield                         |
| <u> </u>    |               |                 |  |                      |                  | - 155 52       | 100 22         | 75.07       | 1306.00        | 900              | TS (south) 27                           | nisM                            |
| 82.0        | 2E.001        | 913.52          | £8.b   | 167000.0             | 11.E8            | 76.21          | 82.75          | 107:04      |                |                  |   |                                 |
| 81.0        | SI 146        | \$7.477         | 88.5   | 0.000296             | 59.18            | 91.47          | 81.32          | 82.07       | 4412.00        | 2112             | TS (divos) 6 dass                       | n nisM                          |
| 91.0        | Z1.78         | 69.069          | 2.48   | 0.000261             | €8.67            | 86.67          | E7.97          | 82.07       | 00.8222        | 2112             | 72 (ribuos) & ribes                     | n nieM                          |
| 21.0        | 80.48         | 203.02          | 2.08   | 0.00020              | 85.87            | 72.67          |                | 82.07       | 1567.00        | 5415             | Sech 3 (south) 27                       |                                 |
| <u> </u>    |               |                 |  |                      | <del>-  </del> - | 1001           | 15.87          | 82.07       | 00.5401        | 2412             | Sech 3 (south) 27                       | n nieM                          |
| 02.0        | 3290.28       | 35.825          | 3.59   | 0.000380             | 83.92            | 27.97          |                |             |                |                  | 77 77 77                                |                                 |
| et.0        | PE. 28        | 56.617          | 3.09   | <b>466000.0</b>      | 86.18            |                | 83.78          | BS.07       | 4412.00        | 0000             | sech 3 (south) 27                       | nisM                            |
| 71.0        | 69.87         | 66.483          | 89.2   | 462000 0             | 75.08            | 74.52          | 18.18          | 82.07       | 2228 00        | 0007             |   |                                 |
| 81.0        | 22.09         | 76.234          | 2.24   | 0.000260             |                  | 88.67          | 81.08          | 82.07       | 00.1881        | 0001             |   |                                 |
|             |               |                 |  | 030000               | 59.87            | 72.91          | 78.87          | 8S.07       | 1044.00        | 0000             |   |                                 |
| A1.0        | Z8.108S       | 68 TOSE         | 5.59   | 071000.0             | <del></del> -    |                |                |             |                |                  | 1,0                                     |                                 |
| 11.0        | 124.41        | 67.EATT         | 36.1   |                      | 11,148           | 80.27          | 84.05          | 85.07       | 4412.00        | 1691             | (dance) & does                          |                                 |
| 01.0        | 82.711        | 17,000          |  | 211000.0             | \$1.58           | 96,67          | 90.S8          | 82.07       | 2228.00        | 1681             |   |                                 |
| 80'0        | 109.62        | 69.484          | Z9.1   | 101000.0             | 11,08            | 47.27          | 7E.08          | 82.07       | 00.7821        | 4691             |   | <del></del>                     |
|             | - 100 00.     | G2 h27          | 86.1   | 1480000.0            | TT.87            | 72.17          | <b>₽</b> 7.87  | 8S.07       | 1044.00        |                  |   | risM s                          |
| 0.28        | 1663.32       | 01/2004         |  |                      |                  |                |                |             | - 00.770.      | 7684             | each 3 (aouth) 2                        | rioM r                          |
| 15.0        | 29.07         | 81,8681         | 27.A   | 018000.0             | 84.31            | 15.77          | 94.00          | 85.07       | 4412.00        |                  | Colored a service and a                 | 2.5                             |
| 0.20        |               | ZS.8E8          | 3.50   | 844000.0             | 12.28            | 00.27          | 20.58          | 82.07       |                | 20187            |   | niaM d                          |
| 0 10        | 70.20         | <b>18.612</b>   | 30.5   | 1010000.0            | 64.08            | 90 1/2         | 2E.08          | 85.07       | 2228.00        | 20167            |   | nieM d                          |
|             | 74.48         | 96,101          | 85.5   | 856000.0             | £8.87            | 73.20          | E7.87          | 82.07       | 1567.00        | 72102            |   | nisM d                          |
|             |               |                 |  |                      |                  | <del></del> -  | W. 9L          | BC 02       | 00.1401        | 20157            | S (duvoe) & chasen                      | nisM d                          |
|             |               |                 |  |                      |                  |                |                |             | <del>-  </del> |                  | The part of the second                  | g ong sakiya in                 |
|             |               |                 |  |                      |                  |                |                |             | nieW eniini    | 81187            | reach 3 (south)                         | nisM đ                          |
| 4.0         | 89.5831       | 92.1881         | 81.8   | 658100.0             | 89.48            | 88.08          | 10.40          |             |                |                  | 5                                       | an englandiga s                 |
| €.0         | St. 18        | 412.24          | 5.40   | 595100.0             | 82.46            | 88.08          | 10.148         | 40.47       | 4412.00        | 75122            | reach 3 (south)                         | District di                     |
| 70          | 16.19         | 304.26          | 21.2   | 748100.0             | 177.08           |                | 60.58          | 40.47       | 2228.00        | 75122            |   | niaM d                          |
| <b>P</b> '0 | 99.55         | 208.44          | 2.01   | 0.002614             | E1.67            | ST.TT          | 86.08          | Þ0.Þ7       | 1967 00        | 75122            |   | risM &                          |
|             |               |                 |  | 1.72.000             | D1 07            | 16.97          | <b>₽</b> 7.87  | PO.47       | 1044,00        | 75122            |   | niaM rti                        |
| r:0         | 08.011        | OE. TET         | 86.3   | 268100.0             | 00.00            | -              |                |             |                | 20 3 20 4        |   | · · · · · · · · · · · · · · · · |
| 5.0         | 81.8T         | 81.252          | 917  | 98100.0              | 80.88            | 19'08          | 05.28          | 10.17       | 4412,00        | 00094            | (reach & reach                          | riaM ri                         |
| 2.0         | 19.69         | 10.014          | DY.E   | \$920000             | E14.E8           | 78.25          | 81.68          | 140.47      | 2228.00        | 000943           |   |                                 |
| 3.0         | EF-148        | 39.815          | 12.6   |                      | 87.18            | 10 22          | 82.18          | PO:PZ       | 00.7881        | 000023           |   | rdsM rlf                        |
|             |               |                 | - 200  | S#4000.0             | 80.25            | 78.87          | 80.08          | 14.04       | 1044.00        | 20000            | 100 110 110 110 110 110 110 110 110 110 | Hall di                         |
| 1'0         | 59.4571       | 4149.13         |  |                      |                  |                |                |             |                | 00002.0          | (dhyne) £ dreen                         | nieM dt                         |
| 3.0         | ₹8.E7         | 01.698          | FB.S   | 0.000254             | 81.78            | P6'08          | 01.78          | SE.E7       | 4412.00        | 0009/2           |   | 3 3 3 4 A                       |
| 2.0         | 58.88         | 422.95          | 3.91   | 0.18000.0            | 08.48            | Oč.87          | 94.56          | SE.E7       | 2228.00        | 0008/2           | 7 | risM th                         |
| 0           | 18.08         |                 | 37.6   | 0.000563             | 60.68            | #9.77          | 06.58          | \$6.67      | 00.7931        |                  | 11. 10.1                                | nisM rth                        |
|             | 1.500         | 81.SE           | 2:98   | P0900010             | 84.18            | £9.97          | \$5.18         | \$6.67      | 00 2031        | 900875           | (rbuos) & rlosen                        | riaM th                         |
| 0           | 1203.64       |                 |  |                      |                  |                |                | <del></del> |                | 900922           | (rituos) & rices1                       | nieM An                         |
| a           |               | Se99.46         | EY.E   | 014000.0             | E8.78            | 149.08         | 99.78          | SE.E7       | 2017(44        |                  |   | of others in                    |
| .0          | 58.87         | 50.188          | ₹6.€   | 866000.0             | 77.28            | 15.87          | 65.88          |             | 4412.00        | 590000           | (disos) & dosen                         | nisk do                         |
|             | <b>₱0</b> .0∠ | 99. SE8         | 5.94   | P96000 0             | 78.68            | 25.77          |                | SE.E7       | 2228.00        | 280000           | (чилов) В фэеси                         | DIBM NO                         |
| 0           | 87.68         | 88.814          | 5.49   | ₹0€000.0             | 82.24            | 86.87          | 48.68          | SE.EY       | 1567.00        | 280000           | (risuos) & riceeri                      | club din                        |
|             |               |                 |  |                      |                  | 06 97          | 11.58          | SE.87       | 1044.00        | 280000           | reach 3 (south)                         | niel Atr                        |
| 0           | 1265.06       | 22.5175         | 78.€   | 7S+000.0             | 1+6°Z9           | 87.08          |                |             |                |                  | Section (Management                     | and the same of                 |
| 0           | 87.67         | 94'699          | EE.E   | 266000.0             | 86.38            |                | <b>6</b> 7.78  | SE.E7       | 4412.00        | 280268           | (dauce) & doesn)                        | chell chr                       |
| 0           | 01.57         | 68.852          | Z6.2   | 786000.0             | 70.48            | 16.87          | 07.28          | SE.EY       | 00.8SSS        | 280263           | (muos) & south)                         | riteM day                       |
| 0           | 90.38         | 418.26          | 5.50   | \$15000.0            |                  | 75.17          | 146.58         | SE.E7       | 1567.00        | 280263           | (rhuos) & rkaser                        |                                 |
|             |               | <del></del>     | _  | 7720000              | SE. S8           | 8t 97          | 52.28          | SE.E\       | 1044.00        | 280263           | (rituos) E ricean                       | rish rtro                       |
| 0           | 1286.08       | E4.627S         | 3.62   | 0100000              | <del> </del>     | <del></del>    |                |             |                | 500000           | /descript P descript                    | right dro                       |
| 0           | 96°6Z         | \$8.178         | 3.32   | 91100000             | 16.18            | <b>67.08</b>   | S8.78          | SE.ET       | 4412.00        | 280327           | (IRDON) a serve                         |                                 |
| o .         | 72.20         |                 |  | S66000.0             | 06.28            | ₽6.87          | £7.28          | SE.E7       | 2228.00        |                  | (rituos) E ricean                       | nish dho                        |
| 0           | £1.28         | 08.768          | 2.91   | <b>₽9000</b> 00      | 60.48            | TE.TT          | 96.58          | 26.67       | 1567.00        | 280927           | (dauce) & chosen                        | nisM risto                      |
| <del></del> | 10.38         | 09.614          | 2.49   | 116000.0             | ME.S8            | 89°92          | 82.24          | SE.E7       |                | 290327           | (rituos) & ribasen                      | nisM dho                        |
| 0           | 60.00         | 777             | <u></u>  |                      |                  |                | +              | 1           | 1044.00        | 280927           | (dauce) & doesn                         | risM dho                        |
| 0           | 28.88         | SS.216          | 4.82   | S+9000.0             | 69.68            | 9S.08          | 68.68          | 00:04       | _              | +                | <u> </u>                                | 3 4 98 313                      |
| 0           | 78,08         | 35.46           | 3.05   | <b>3-00000.</b> 0    | 84.88            | 81.87          | SE.38          | £6.67       | 00.S144        | 282000           | (dhuọa) 8 doam                          | nisM Aho                        |
|             | 99°EZ         | 88.16           | 2.66   | 0.000272             | 19.48            | SS.77          | 96.50          | EE.87       | 2228.00        | \$85000          | (dhuoe) 8 doesn                         | nisM rino                       |
| 0           | 88.88         | 462.37          | 2.26   | 0.000235             | 67.58            | 36.35          |                | SE.EY       | 1567.00        | 585000           | (rituos) & ricean                       | nish fitto                      |
|             |               |                 |  |                      | +                | 01             | 17.58          | EE.ET       | 00.140f        | \$85000          | (rituos) & rioper                       | nisM dho                        |
| )           | 13.68         | <b>35.85</b> 6  | 07.4   | 209000.0             | E1.0e            | G/ 10          | 10000          | <del></del> |                | 9 1 1            |   | dengalar                        |
| )           | 69.67         | 69 669          | 81.6   | 846000.0             | \$1.78           | 81.75          | 67.68          | SE.E7       | 4412.00        | 284000           | (rhuos) & rhoeer                        | nisM dho                        |
| )           | 20.E7         | 78.888          | 28.5   | SSE000.0             | 15.28            | 99'62          | 96.96          | SE.E7       | 2228.00        | 264000           | (rituos) & rices)                       | nielé divo                      |
| )           | SB. 88        | AE.7SA          | 2.44   | \$000000             | £5.28            | 04.87          | 60.28          | SE.EY       | 00.7881        | 284000           | (riguos) & ripsen                       | night dhoi                      |
|             | _L            | $\top$          | <del>                                     </del> |                      | ee 68            | 52.77          | ES.E8          | S6.67       | 1044.00        | 284000           | (rituos) & ricean                       |                                 |
| )           | 237.56        | 08.51-6         | 99.4   | 0.002038             | 100.00           | <u> </u>       | <del> </del>   |             |                |                  | and the second second                   | nisM rimol                      |
| )           | 78.67         | SZ 96.3         | 03.5   | 850500.0             | EE 06            | S2.28          | 66.68          | 87.47       | 4412.00        | 586201           | (dinos) & ribes)                        | di Salamana                     |
|             | <b>70</b> .78 | 86.408          | 3.11   | <del></del>          | 12.78            | 54.64          | S0.78          | 87.47       | 2228.00        | 284201           | (divos) & dosen                         | risM rinov                      |
|             | 15.08         | 84.88£          | 2,70   | 609-000-0            | 82.29            | 67.97          | P1'58          | 94.44       | 00.7821        | 284201           |   | nisM thoy                       |
|             | <del> </del>  | 37 000          | ULC  | 946000.0             | 04.68            | 68.TT          | 83.29          | 87.47       | 00,1401        |                  | (dtuce) & doser                         | nist thoy                       |
|             | Sp.770S       | 10:5:0~         | 1  |                      |                  |                |                | +=          |                | 284201           | (divos) & daser                         | nisM tho                        |
|             | S8.ET         | 18.4188         | 2.51   | <b>769000</b> 0      | 97'06            | 82.22          | 60.39          | 87.47       | 00:21          | <u> </u>         |   | O Too                           |
|             |               | 56.958          | 84.E   | 0.000422             | S2.78            | 94'64          | 80.78          | 87.47       | 4412.00        | 284287           | (dhuos) & doset                         | risM rinoV                      |
|             | 61.78         | <b>6</b> E. 703 | 60.E   | 9600000              | EC.28            | 97.87          | 81.28          |             | 2228.00        | 784287           | (disos) & dosen                         | risM rtroM                      |
|             | \$9.09        | 99.68C          | 99.S   | 696000.0             | p. 58            | 98.77<br>95.95 |                | 87.47       | 00.7881        | 294287           | (spros) & (sprosy)                      | rital Atrion                    |
|             | <del> </del>  | L               |  | T                    | <del></del>      | 20 41          | EE.E8          | 87.47       | 1044.00        | 284287           | (duos) & doesn                          | nisM rtnoM                      |
|             | 18.10SS       | 3622.57         | 85.5   | 65,000.0             | Z\$'06           | CE:10          | <del> </del>   |             |                | ing state of the | , Prince Jack                           | 1                               |
|             | <b>68.8</b> ₹ | 81.168          | 3.22   | 686000.0             | <del></del>      | 26.18          | 08.06          | 87.47       | 4412.00        | 284500           | (rithos) & dosen                        | risM thoM                       |
|             | 88.17         | 19'81'9         | 2.86   | 166000.0             | EE 78            | 28.67          | 71.78          | 87.47       | 2228.00        | 284500           | (rimos) & riseen                        |                                 |
|             | 96 19         | \$0.1SA         | 2,48   |                      | 14.28            | 28.87          | 85.28          | 87.47       | 00.7881        | 284500           | (rituos) & ricest                       | Morth Main                      |
|             |               | +               | 37 6   | 406000.0             | 12.58            | 87.77          | SA.68          | 87.47       | 1044.00        | 284500           | reach 3 (south)                         | Moth Main                       |
|             |               | 1               |  |                      |                  |                |                |             |                |                  |   | demonster van een een           |
| Lyape Na    | (u)           | tu hel          | (24)   |                      |                  |                |                |             |                |                  | Jahren & dress                          | risM ritroll                    |
| # epno_j    | (fi)          | (if pe)         | Vel Chril  | E.G. Slope<br>(N/ft) | (ii)             | (u)            | (a)            | (tt)        | (eib)          |                  | /dhine) & dozen                         | aieM AhoM                       |

HEC DAS Plan: P 10 D River Reach ? (Continued) River Sta Q Total E.O. Slope Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Clink Flow Area Top Width Froude # Chil (ft) (ft) (ft) (ft/ft) (ft/a) (aq ft) (ft) North Main reach 3 (south) 269920 1306.00 70.27 76.73 73.60 77.03 0.001290 299.05 58.43 0.34 North Main reach 3 (south) 269920 1925.00 70.27 77.94 74.51 78.38 0.001499 5.17 372.61 62.98 0.37 North Main 457.96 each 3 (south) 2703.00 70.27 79.25 75.50 79.79 0.001652 5.90 67.82 0.40 North Main each 3 (south) 269920 5237.00 70.27 82.04 78.02 82.14 0.000740 3.57 3566.23 2730.06 0.26 North Main each 3 (aouth) 289788 1306.00 70.27 76.52 73.60 76.84 0.001453 4.55 286.91 57.64 0.36 North Main each 3 (south) 269788 1925.00 70.27 77.69 74.51 78.14 0.001695 5.39 356.85 62.03 0.40 North Main each 3 (south) 289788 2703.00 70.27 78.96 75.50 79.55 0.001864 438.73 6.16 66.77 0.42 North Main reach 3 (south) 269786 5237.00 70.27 81.92 78.02 82.03 0.000893 3.69 3287.45 2251.01 0.29 North Main 269131 each 3 (south) 1306.00 70.27 73.68 73.37 74.78 0.009694 8.42 155.13 52.65 0.86 North Main sech 3 (south) 1925.00 269131 70.27 74.99 74.22 76.10 0.006738 8.46 227.58 57.93 0.75 North Main reach 3 (south) 2703.00 70.27 269131 78.62 75.13 77.68 0.004599 8.26 327.19 64.27 0.65 North Main each 3 (south) 260131 5237.00 70.27 78.80 77.51 80.68 0.005866 10.99 476.53 72.56 0.76 North Main each 3 (south) 269121 Inline Weir North Main reach 3 (south) 269108 1306.00 65.34 73.38 68.57 73.56 0.00059 3.38 385.88 60.49 0.24 North Main 269108 reach 3 (south) 1925.00 65.34 74.98 69.48 75.22 0.000678 3 95 487.33 66 22 0.26 North Main reach 3 (south) 65.34 2703.00 76.61 70.48 76.93 0.000756 4.50 600.34 72.50 0.28 North Main each 3 (south) 269108 5237.00 65.34 79.52 78.79 73.11 0.001469 6.81 768.76 82.01 0.39 North Main reach 3 (south) 268000 1306.00 65.34 72.73 68.42 72.89 0.000804 3.23 403.80 70.70 0.24 North Main reach 3 (south) 268000 1925.00 65.34 74.27 69.26 74 48 0.000649 3.72 517.88 77.37 0.25 North Main reach 3 (south) 268000 2703.00 65,34 75.84 70.19 76.11 0.000696 4.19 644.73 84 30 0.27 North Main reach 3 (south) 268000 5237.00 65.34 76.90 72.53 77.68 0.001862 7.10 737.52 90.23 0.44 each 3 (south) North Main 1306.00 65.32 71.72 71.93 0.000917 3.69 353.98 70.13 0.29 North Main reach 3 (south) 1925.00 65.32 73.21 69.13 73.48 0.000920 463.98 76.94 0.30 North Main reach 3 (south) 266698 2703 00 65.32 74.73 70.01 75.06 0.000938 4.61 83.86 586.19 0.31 North Main reach 3 (south) 266698 5237.00 65,32 75,89 72.28 76.06 0.000732 4.34 4021.21 3385.38 0.28 North Main 266868 Inline Wei reach 3 (south) North Main reach 3 (south) 266679 1306.0 61,46 71.71 64.54 71.78 0.000170 2.07 631.27 82.48 0.13 North Main reach 3 (south) 268879 1925 00 61.46 73.21 65.38 73.31 0.000220 759.10 88.33 0.15 897.54 North Main reach 3 (south) 266679 2703.00 61.46 74.72 66.24 74.86 0.000272 3.01 94.43 0.17 North Main reach 3 (south) 268879 5237.00 61.46 75.88 68.53 76.02 0.000356 3.59 4387.34 3397.04 0.20 71.63 North Main 266000 59.80 reach 3 (south) 1306.00 62.86 71.68 0.000102 1.73 754.55 87.36 0.10 North Main 1925.00 73.10 63.72 73.18 reach 3 (south) 266000 59.80 0.000141 2.17 886,99 93.05 0.12 North Main each 3 (south) 266000 2703.00 59.80 74.60 64.63 74.70 0.000180 2.59 1289.41 1980.93 0.14 North Main 5237.00 each 3 (south) 266000 59.80 75.68 66.95 75.80 0.000271 3.31 4570.18 3336.56 0.18 North Main reach 3 (south) 265565 1306.00 59.80 71.56 63.58 71.62 0.000166 2.05 636 47 83.04 0.13 North Main 265565 1925.00 reach 3 (south) 59.80 73.00 64.54 73.10 0.000223 2 53 761.26 90.31 0.15 74.53 North Main 285565 2703.00 59.80 65.56 74.62 reach 3 (south) 0.000197 2.52 2399.20 2474.50 0.15 North Main 5237.00 reach 3 (south) 265566 59.80 75.62 68.12 75,68 0.000209 2.71 6395.41 3901.35 0.15 71.61 North Main reach 3 (south) 285509 1306.00 59 RO 71.55 63.58 0.000167 2.05 635.67 82.99 0.13 North Main reach 3 (south) 265509 1925.00 59.80 72.98 64.54 73.08 0.000224 2.53 760,09 90.24 0.15 North Main reach 3 (south) 265509 2703.00 59.80 74.52 65.57 74.61 0.000199 2.53 2368 82 2407.93 0.15 North Main reach 3 (south) 265509 5237.00 59.80 75.61 68.13 75.67 0.000212 2.72 6350.13 3900.96 0.15 1306.00 59.75 North Main reach 3 (south) 264000 71.33 63.05 71.39 0.000135 1.95 670.35 79,75 0.12 North Main 264000 1925.00 59.75 reach 3 (south) 72.68 53.91 72.77 0.000193 2.46 781.32 84.76 0.14 North Main reach 3 (south) 264000 2703.00 59.75 74.36 64.86 74.39 0.000095 1.82 3335.07 4706.53 0.10 North Main reach 3 (south) 284000 5237.00 59.75 75.39 67.30 75.41 0.000131 1.81 8506.07 3871.04 0.12 71.04 North Main 59.40 62.70 71.10 0.000145 reach 3 (south) 262000 1306.00 2.01 650.50 77.57 0.12 North Main reach 3 (south) 262000 1925.00 59,40 72.26 63.63 72.36 0.000215 2.57 747.72 82.15 0.15 North Main 2703.00 59.40 73.85 reach 3 (south) 64.61 73.96 2.73 989.93 279.86 0.26 North Main reach 3 (south) 262000 5237.00 59.40 75.11 67.14 75.12 0.000149 1.32 7532.43 3849.06 0.11 North Main reach 3 (south) 260000 1565.00 59.40 70.70 63.04 70.76 0.000209 1.93 809.25 140.84 0.14 North Main 71.80 reach 3 (south) 260000 2291.00 59.40 63.96 71.88 0.000285 2.31 1171.76 670.11 0.16 73.11 North Main 3206.00 0.000248 reach 3 (south) 260000 59.40 64.96 73,18 2.29 2079.68 721.51 0.16 North Main each 3 (south) 260000 6165.00 59.40 74.81 67.44 74.85 0.000209 1.98 6377.57 2320.87 0.14 North Main reach 3 (south) 258000 1565 00 58,66 70.37 62.05 70.43 0.000136 2.01 780.01 0.12 North Main reach 3 (south) 258000 2291.00 58,66 71.29 62.90 71,40 0.000218 2.65 864 38 93.38 0.15 North Main reach 3 (south) 258000 3206.00 58.66 72.48 63.83 72.64 0.000288 3.20 1332.08 1061.34 0.18 North Main reach 3 (south) 258000 6165.00 58.66 74.31 66.26 74.40 0.000242 3.14 6099.31 3368.93 0.17 70.16 2.11 North Main reach 3 (south) 256681 1565.00 58.71 62.22 70.23 0.000161 742.89 91.29 0.13 North Main reach 3 (south) 25668 2291.00 58.71 70.95 63.12 71.08 0.000266 2.81 816.52 94.88 0.17 North Mair each 3 (south) 25868 3206.00 58.71 72 31 64.09 72.35 0.000137 2.13 4051.23 2553.73 0.12 North Main reach 3 (south) 256681 6165.00 58.71 74.15 66.57 74.17 0.000114 1,35 10371.21 4021.06 0.10 North Main reach 3 (south) 256121 1565.00 58.27 70.15 60.74 0.000043 1301.83 139.02 70.18 1.20 0.07 North Main reach 3 (south) 256121 2291.00 58.27 70.94 61.35 70.98 0.000072 142.55 1.62 1412.67 0.09 reach 3 (south) 256121 72.21 62.02 72.26 1.93 1683.74 2754.45 0.14 North Main each 3 (south) 256121 6165.00 58.27 74.13 63.78 74.13 0.000040 3721.33 0.06

Plan: P 10 D 2 (Continued)
Resch River Sta Q Total HEC-DAS River Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl : Flow Area : Top Width Froude # Chi (4) (ft) (11) (ft/ft) (ft/a) (sq ft) (ft) North Mair each 3 (south 255591 1565.00 58.07 70.10 61.69 70.14 0.000136 1.74 1144.58 2919,67 0.12 reach 3 (south North Mair 255591 2291.00 58.07 70.86 62,58 70.93 0.000191 2.12 1532.48 3109.34 0.14 North Main reach 3 (south 255591 3206.00 58.07 72.10 63.50 72.15 0.000208 2.09 2495,87 3452.60 0.14 North Main reach 3 (south) 255591 8185.00 58.07 74.11 65.91 74.12 0.000019 0.68 17699.10 3508.71 0.04 North Mair 254845 reach 3 (south) 1565.00 58.07 70.05 61.47 70.07 0.000063 1.37 2813.07 3933.34 0.08 North Main 254845 reach 3 (south) 2291.00 58.07 70.80 62.33 70.81 0.000096 1.11 4331.59 4070.99 0.09 North Main reach 3 (south) 254845 3208.00 58.07 72.07 63.25 72.07 0.000051 0.87 7056.35 4255.88 0.07 North Main each 3 (aouth) 6165.00 58.07 74.10 65.65 74.11 0.000010 0.48 4331.00 0.03 North Main reach 3 (south) 254785 1565.00 58.07 70.04 61.47 70.06 3932.63 0.000064 1.38 2777.33 0.08 North Main reach 3 (south) 254765 2291.00 58,07 70.79 62.33 70.80 0.000098 1.12 4201.65 4089 BB 0.09 North Main ch 3 (south) 254785 3206.00 58.07 72.06 63.25 72.07 0.000052 0.87 7137.68 4254.79 0.07 North Main each 3 (south) 254765 6165.00 58.07 74.09 65.65 0.000010 0.48 23649.21 4330.89 0.03 North Male reach 3 (south) 254000 1565.00 58.07 70.03 61.54 70.03 0.000016 0.69 7092.93 4064.45 0.04 reach 3 (south 254000 North Main 2291.00 58.07 70.76 62.46 70.76 0.000018 0.61 9354.31 4131.66 0.04 North Main reach & (south) 254000 3208.00 58.07 72.04 63.44 72.04 0.000012 0.53 13456 25 425D 71 0.03 North Mair reach 3 (south) 254000 6165.00 58.07 65.99 74.08 0.000008 0.50 25541.14 4274.65 0.03 North Main reach 3 (south) 252000 1565.00 58.08 69 87 61.85 69 94 0.000265 726.74 127.33 0.16 North Main reach 3 (south) 252000 2291.00 58.08 70.73 62.80 70.73 0.000019 0.63 5957.73 0.04 North Main reach 3 (nouth) 252000 3206.00 58.08 72.03 63.81 72.03 0.000012 0.56 12727.92 5965.40 0.04 North Main reach 3 (south) 252000 6165.00 58.08 74.08 5975.95 66.38 74.08 0.000009 0.54 24049.17 0.03 North Main reach 3 (south) 250860 1585.00 57.32 69.64 60.90 69.68 0.000186 1.63 958.50 194.94 0.13 North Main reach 3 (south) 250860 2291.00 57.32 70.70 61.84 70.71 0.000038 0.79 5282.11 4956.28 0.06 reach 3 (south) North Main 250860 3206.00 57.32 72.01 62.84 72.01 0.000028 0.78 7254.06 4961.42 0.05 North Main reach 3 (south) 6165.00 57.32 74.04 65.39 74.05 0.000035 10347.20 0.99 4963.10 0.06 North Main reach 3 (eputh) 250000 1630 00 57.29 69.53 60.32 69.57 0.000098 1.58 1029.39 135.51 0.10 North Main reach 3 (south) 250000 2428.00 57.29 70.67 61.17 70.68 0.000049 0.89 5510.44 5024.77 0.07 North Main sch 3 (south) 250000 3444.00 57.29 71.99 62.10 0.00003 0.79 8245.25 5058,58 0.06 each 3 (south) 250000 6802.00 57.29 74.03 64.50 74.03 0.000007 0.42 30679.59 5099.43 0.03 North Main ach 3 (south) 248748 57.29 1630.00 69.31 60.88 157.83 69.38 0.000272 2.03 803.30 0.16 North Main reach 3 (south) 248746 2428.00 57.29 70.55 61.68 70.59 0.000201 1.72 2278.32 3904.64 0.14 North Main reach 3 (south) 248746 3444.00 57.29 71.92 62.94 71.94 0.000127 1.59 3558.90 3916,36 0.11 North Main reach S (south) 248746 6802.00 57.29 74.02 65.66 74.03 0.000013 0.61 22354.87 3933,49 0.04 North Main 248519 reach 3 (south) 1630.00 69.32 57.29 69.25 60.88 0.000265 2.05 795.49 151.06 0.16 North Main reach 3 (south) 248519 2428.00 0.000213 57.29 70.51 61.88 70.55 1.73 2239.58 3904.29 0.14 North Main reach 3 (south) 3444.00 57.29 71.89 62.94 71.92 0.000130 1 5B 3536.19 3916.15 0.11 North Mai ich 3 (acuth 248519 6802.00 57.28 74.01 85.66 74.02 0.000013 0.60 22316.85 3933.41 0.04 North Main reach 3 (eouth) 248000 1630.00 57.30 69.13 61.28 69.20 0.000177 2.21 738.41 91.07 0 14 North Main (dtuoe) E riceen 248000 2428.00 57.30 70.48 62.30 70.49 0.000054 1.18 5230.02 3894.58 0.07 North Mair reach 3 (south) 248000 3444.00 57.30 71.88 63.33 71.88 0.000034 0.97 7973.47 3978.72 0.06 North Main each 3 (south) 248000 6802.00 57.30 74.00 66.06 74.01 0.000013 4018.10 0.66 0.04 North Mair each 3 (south) 24747B 1630.00 57.30 68.78 66.70 68,98 0.001547 3.64 447 69 118 90 0.33 North Main reach 3 (south) 24747B 2428.00 57.30 70.47 67.29 70.47 0.000055 0.76 5279.75 3931.84 0.06 North Main reach 3 (south) 247478 3444.00 57.30 71.87 67.94 71.87 0.000036 0.73 7925.14 4079.54 0.05 North Mair each 3 (south) 247478 6802.00 57.30 73.99 70.00 74.00 0.000018 0.65 20886.16 4203.74 0.04 North Mak reach 3 (south) 247400 1630.00 57.30 68.68 66.61 68.67 0.001413 3 44 473.79 129.63 0.32 North Main reach 3 (south) 247400 2428.00 57.30 70.46 67.15 3923.00 70,47 0.000055 0.77 5265.11 0.06 North Main reach 3 (south) 247400 3444 00 57.30 71.86 67.79 71.87 0.000036 0.74 7901.92 4071.48 0.05 North Main reach 3 (south) 247400 6802.00 57.30 73.98 69.49 73.99 0.000019 0.65 20811.14 4195,76 0.04 reach 3 (south) 246000 North Main 1630.00 57.05 68.19 60.62 68 27 0.000187 2.21 736.66 94.70 0.14 North Main reach 3 (south) 2428.00 57.05 70.35 61.61 70.37 0.000086 1.51 3126.83 3511.25 0.09 North Mair reach 3 (south 46000 3444.00 57.05 71.78 62.65 71.80 0.000070 1.46 4428.20 3555 55 0.09 North Main reach 3 (south 248000 6802.00 57.05 73.96 65.30 73.96 0.000016 0.79 20003.59 3566.35 0.04 North Main reach 3 (south) 244000 1630.00 57.05 87 59 61 42 67.73 0.000402 3.00 543.79 78.30 0.20 North Main 244000 reach 3 (south) 2428.00 57.05 69.87 62.54 70,04 0.000391 3.31 733.45 88.70 0.20 North Main reach 3 (south) 244000 3444.00 57.05 71.58 63.72 71 61 0.000129 1.95 3706.28 5926.63 0.12 North Main reach 3 (south) 57.05 6802.00 73.93 66.66 73.93 0.000007 0.43 32510.45 6014.71 0.03 North Main reach 3 (south) 242500 1630.00 56.61 66.99 61.05 67.14 0.000396 3.02 540.62 76.06 0.20 North Main reach 3 (south) 242500 2428 00 56.61 69.28 62.07 69.45 0.000389 3,35 724.91 85.44 0.20 North Main reach 3 (south) 242500 3444.00 56.61 71.05 63.17 71.27 0.000427 3.78 1242.79 3679.41 0.22 North Main reach 3 (south) 242500 6602.00 56.61 73.90 66.03 73.91 0.000044 1.30 14651.15 3760.28 0.07 North Main each 3 (south) 1630.00 241505 56.61 66.62 60.37 66.76 0.000361 2.93 556 80 75.95 0.19 North Main reach 3 (south) 241505 2428.00 56.61 68.91 61.41 69.08 0.000364 3.28 740.82 85.20 0.20 North Main reach 3 (south) 241505 3444 00 56.61 0.00044 70.61 62.51 70.84 891.25 3.66 92.07 0,22 North Main reach 3 (eouth) 241505 6802.00 56.61 73.19 65.41 73.74 0.000871 5.95 1142.27 849.50 0.31 North Main reach 3 (south) 240950 1630.00 56.61 66.41 60.53 66.55 0.000392 2.94 553.70 60.55 0.20

North Main

reach 3 (south)

240950

2428.00

56.61

68.71

61.55

68.67

0.000375

3.23

750.85

91.45

HEC DAS Plan: P 10 D 2 (Continued)
River Reach River Star Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft/ft) (fl/s) (sq ft) (h) reach 3 (south) North Mair 240950 3444 00 56.61 70.37 62.64 70.5 0.000446 3.79 908.93 99.06 0.22 North Main each 3 (south) 240950 6802.00 56.61 72.70 65.42 73.24 5.90 1152.45 333.78 0.32 North Main reach 3 (south) 56.61 240919 1630,00 66.40 60.53 66.54 0.000394 2.95 552.67 80.49 0.20 North Main reach 3 (south) 240919 2428.00 56.61 68.69 61.55 68.8 0.000377 3.24 749.73 91.40 0.20 reach 3 (south) 240919 3444.00 56.61 70.35 62.64 70.57 0.000448 3.80 907 47 98.99 0.22 North Main 240919 56.61 each 3 (south) 6802.00 72.66 65.42 73.21 0.000915 5.92 1148.77 329.16 0.32 North Main each 3 (south) 240000 1830 00 55.47 66.19 59.11 66.27 709.21 0.000201 2.30 90.33 0.14 North Main reach 3 (south) 240000 2428.00 55.47 68.48 60.01 68.59 0.000209 2.62 927.01 99.62 0.15 North Main reach 3 (south) 240000 3444.00 55.47 70.09 60.97 70.24 0.000266 3.15 1092.26 106.13 0.17 North Main reach 3 (south) 240000 6802,00 55.47 72.06 63.53 72.48 0.000628 5.19 1309.75 114.13 0.27 North Main rec .h 3 (south) 239550 1630.00 55.23 66.09 58.93 66.18 0.000206 2.32 702 91 90.26 0.15 North Mair reach 3 (south) 2428,00 55.23 68.38 59.85 68.49 0.000215 2.64 921.04 100.29 0.15 North Main reach 3 (south) 239550 3444.00 55.23 59.96 60.86 70.12 3.17 0.000275 1084.90 107.21 0.18 rrach 3 (south) North Main 239550 6802.00 55.23 71.75 63.48 72.19 0.000674 5.30 1283.32 114.87 0.28 r sach 3 (south) 2.32 North Main 239468 1630.00 55.23 66.08 58 93 66 16 0.000207 701.34 90.18 0.15 North Main reach 3 (south) 2428.00 55.23 68.37 59.88 68.47 0.000216 2.64 919.21 100.21 0.15 3444.00 sach 3 (south 55.23 69.94 60.88 70.10 0.000276 3.18 1082.38 107.10 0.18 North Main each 3 (south) 6802.00 55.23 71.69 63.48 0.000684 72.13 5.33 1276.31 114.61 0.28 North Main reach 3 (south) 238000 1630.00 54.74 65.79 58.50 65.87 0.000193 2.29 711.84 88.04 0.14 North Main reach 3 (south) 238000 2428 00 54.74 68.06 59.41 68.16 0.000207 2.64 921.42 96,61 0.15 North Main reach 3 (south) 238000 3444.00 54.74 69.53 60.40 69.69 0.000275 3.22 1068.00 102.20 0.18 North Main reach 3 (south) 54.74 238000 6802.00 71.44 62.99 71.50 0.000215 2.75 6559.24 2483.95 0.15 North Main reach 3 (south) 54.61 237265 1630.00 65.65 58.13 65.73 0.000186 2.28 715.19 87.22 0.14 reach 3 (south) North Main 237285 2428.00 54.61 67.91 59.07 68.02 0.000204 2.63 922.06 95.88 0.15 North Main reach 3 (south 237265 3444 00 54.81 69 32 60 ns 69,49 0.000280 3.25 1062.22 109.9 0.18 North Main reach 3 (south) 237265 6802.00 54.61 71.39 62.75 71.40 0.000076 1.45 10374.77 2936.7 0.09 1630.00 North Main reach 3 (south) 238620 54.53 65.54 58.02 65,61 0.000172 2.16 753.25 93.57 0.13 North Main reach 3 (south) 2428.00 54.53 67.79 58.91 67,88 0.000185 2.49 974.50 103.03 0.14 North Main reach 3 (south) 236520 3444.00 54.53 59.8 69.31 0.000252 3.07 1120.39 108.81 0.17 each 3 (south 6802.00 North Main 236620 54.53 62.45 71.37 0.000047 1,38 11177.72 2222.18 0.07 North Main reach 3 (south) 236000 1630.00 54.54 65.41 58.03 65.49 0.000201 2.32 702.63 88.21 0.14 North Main reach 3 (south) 236000 2428.00 54.54 67.64 58.97 67.75 0.000217 2.67 910.66 97.68 0.15 North Main reach 3 (south) 236000 3444.00 54.54 68.97 60 02 69 14 0.000299 3.30 1044.01 103.32 0.18 North Main 236000 reach 3 (south) 6802.00 54.54 71.32 62,70 71.35 0.000110 1.79 8050.22 2136.58 0.11 North Mair reach 3 (south) 235490 1630.00 54,49 65.27 58.23 65.37 0.000266 627.83 81.61 2.60 0.16 North Mair reach 3 (south 235490 2428.00 54,49 67.48 59.26 67.63 0.000283 2.96 820.23 91.37 0.17 North Main reach 3 (south) 235490 3444.00 54 49 68.74 60.37 68.95 0.00046 3.67 938.99 111.32 0.22 North Main reach 3 (south) 235490 6802.00 54 49 71.19 63.23 71.24 0.000427 2.40 4402.50 1373.17 0.20 North Main reach 3 (south) 235442 1630.00 54.49 65.25 58.23 65.36 0.000267 2.60 626 75 81 55 0.17 reach 3 (south) North Mai 235442 2428.00 54.49 67.48 59.26 67.61 0.000284 2.96 818.95 91.30 0.17 3444.00 North Main reach 3 (south) 235442 68.72 60,37 68.93 0.000466 3.68 936.36 110.04 0.22 North Main reach 3 (south) 235442 6802.00 54.49 71.16 63.23 71.22 0.000422 2.52 4365.28 1368.32 0.20 North Main reach 3 (south) 234280 1630.00 53.37 65.14 56.31 65.16 0.000085 1 64 991 42 109.47 0.10 North Main reach 3 (south) 234280 2428.00 53.37 67.35 57.10 67.41 0.000099 1.95 1243 66 11B.46 0.11 North Main 3444.00 reach 3 (south) 234280 53.37 68.52 57.97 68.6 0.000146 2.49 1384.66 123.21 0.13 North Main each 3 (south) 234280 6802.00 53.37 70.70 60.25 0.000347 70.78 2.57 4771.45 2212,67 0.19 North Main below diversion 112500 1045.00 70.00 79.89 72.65 79.9 0.000087 1.92 568.83 75.19 0.11 North Main below diversion 112500 2105.00 70.00 82.71 74.13 82.72 0.000032 1.38 6819.85 3833.46 0.07 North Main below diversion 112500 3525.00 70.00 85.17 75 70 85.18 0.000009 0.86 19279.30 8103.07 0.04 North Main elow diversion 112500 8125.00 70.00 88.44 79.27 88.44 0.000007 0.84 41835.34 12763.30 0.04 North Mair 111500 elow diversion 1045.00 70.00 79.80 72,74 79.85 0.00008 1.88 1038.71 1061.45 0.11 70.00 North Main below diversion 111500 2105.00 82.68 74.26 82.69 0.000025 1.24 8114.34 4109.80 0.06 North Main below diversion 111500 3525.00 70.00 **B**5.17 75 B4 85.17 0.000009 0.84 21314.26 6701.42 0.04 North Main below diversion 111500 8125.00 70.00 88.43 81.05 86.43 0.000006 0.77 45979.73 11659.41 0.03 North Main below diversion 108769 1045.00 70.00 79.54 72.80 79.60 0.000096 1.92 573.45 84.98 0.12 North Main below diversion 108769 2105.00 70.00 82.49 74.30 82.56 0.000096 2.36 2199.82 1191.41 0.13 below diversion North Main 108769 3525.00 70.00 85.09 75.83 85.12 0.000048 1.92 10351.59 8510,27 0.09 North Main below diversi 108769 8125.00 70.00 0.00001 40985.79 1.06 13634.99 0.05 North Main below diversion 108564 1045.00 70.00 79.52 72.68 79.58 0.000096 1.95 559.41 78.70 0.12 North Mair below diversion 108564 2105.00 70.00 82.39 74.15 82.51 0.000141 2.87 835.36 232.42 0.15 North Main elow diversion 3525.00 70.00 85.05 75.70 85.09 0.000062 2.18 9700.82 8417.97 0.10 North Main below diversion 108564 8125.00 88.40 70.00 0.000011 79.18 88.41 1.05 41286.80 13624.45 0.04 North Main pelow diversion 108524 Bridge North Main below diversion 108484 1045.00 7D.00 79.49 72 68 79.54 0.000098 1.95 556.90 78.56 0.12 North Mair 2105.00 below diversion 108484 70.00 82.26 74.15 82.39 0.000147 2.91 808.63 195.02 0.15 North Main below dive 3525.00 70.00 85.00 0.11 75.70 85.04 0.000067 2.27 9250.64 8306.62

HEC DAS Plan P 10 D 2 (Continued)

| River                    | Plan: P 10.0<br>Reach                    | 2 (Conti<br>River Sta | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope           | Vel Chnl | Flow Area            | Top Width                    | Froude # Chi |
|--------------------------|--|-----------------------|--------------------|----------------|----------------|----------------|----------------|----------------------|----------|----------------------|------------------------------|--------------|
| 22505 60                 | 11 1 14 17 19 72                         | संबद्धाः अस्य स्ट     | (cfa)              | (ft)           | (m)            | (ft)           | (ft)           | (fVft)               | (fVs)    | (sq ft)              | (ft)                         |              |
| North Main               | below diversion                          | 108484                | 8125.00            | 70.00          | 88.38          | 79.18          | 88.39          | 0.000011             | 1.05     | 41264.40             | 13592.98                     | 0.04         |
| Vorth Main               | below diversion                          | 108424                | 1045.00            | 70.00          | 70.47          |                |                |                      |          |                      |                              |              |
| North Main               | below diversion                          | 108424                | 2105.00            | 70.00          | 79.47<br>82.25 | 72.68<br>74.15 | 79.53          | 0.000098             | 1.96     | 558.06               | 78.52                        | 0.12         |
| North Main               | below diversion                          | 108424                | 3525.00            | 70.00          | 84.99          | 75.70          | 82.38          | 0.000148             | 2.91     | 805.33               | 189.89                       | 0.15         |
| Vorth Main               | below diversion                          | 108424                | 8125.00            | 70.00          | 88.38          | 79.18          | 85.03          | 0.00006B<br>0.000011 | 2.29     | 9174.53              | 8270.55                      | 0.11         |
| 10000                    | Avantila geome                           | v/ ·                  | 5120.00            | 70.00          | 30.30          | 79.10          | 00.30          | 0.000011             | 1.05     | 41330.71             | 13582.48                     | 0.04         |
| North Main               | below diversion                          | 108200                | 1045.00            | 70.00          | 79.45          | 72.64          | 79.51          | 0.000100             | 1.97     | 549.61               | 76.53                        | 0.12         |
| North Main               | below diversion                          | 108200                | 2105.00            | 70.00          | 82.21          | 74.12          | 82.34          | 0.000152             | 2.95     | 793.26               | 231.40                       | 0.16         |
| North Main               | below diversion                          | 108200                | 3525.00            | 70.00          | 84.98          | 75.67          | 85.02          | 0.000061             | 2.18     | 9104.92              | 7559.78                      | 0.10         |
| North Main               | below diversion                          | 106200                | 8125.00            | 70.00          | 88.37          | 79.18          | 88.37          | 0.000012             | 1.12     | 37787.96             | 13440.43                     | 0.0          |
|                          |  | 0.45 No.              |                    |                |                |                |                |                      |          | 07707.00             | 10140.40                     |              |
| North Main               | below diversion                          | 107200                | 1045.00            | 70.00          | 79.36          | 72.50          | 79.41          | 0.000090             | 1.88     | 574.29               | 78.88                        | 0.1          |
| North Main               | below diversion                          | 107200                | 2105.00            | 70.00          | 82.07          | 73.90          | 82.19          | 0.000140             | 2.83     | 808.35               | 246.45                       | 0.19         |
| North Main               | below diversion                          | 107200                | 3525.00            | 70.00          | 84.92          | 75.38          | 84,95          | 0.000049             | 1.95     | 9653.69              | 5967.28                      | 0.0          |
| North Main               | below diversion                          | 107200                | 8125.00            | 70.00          | 88.35          | 78.82          | 68.36          | 0.000011             | 1.05     | 39858.01             | 12863.70                     | 0.0          |
|                          |  |                       |                    |                |                |                |                |                      |          |                      |                              |              |
| Vorth Main               | balow diversion                          | 105420                | 1138.00            | 70.00          | 79.19          | 72.65          | 79.24          | 0.000094             | 1.88     | 623.26               | 88.54                        | 0.1          |
| Vorth Main               | below diversion                          | 105420                | 1918.00            | 70.00          | 81.87          | 73.61          | 81.96          | 0.000099             | 2.35     | 878.73               | 100.33                       | 0.1          |
| torth Main               | below diversion                          | 105420                | 3235.00            | 70.00          | 84.87          | 74.93          | 84.88          | 0.000025             | 1.40     | 11414.87             | 7178.07                      | 0.0          |
| TOF UT (MAR)             | below diversion                          | 105420                | 7583.00            | 70.00          | 88.34          | 78.01          | 88.34          | 0.000010             | 1.01     | 35554.05             | 12841.25                     | 0.0          |
| North Main               | below diversion                          | 105350                | 1136.00            | 70.00          | 70.44          | 70.07          | 70.00          |                      |          |                      |                              |              |
| North Main               | below diversion                          | 105350                | 1918.00            | 70.00          | 79.14<br>81.80 | 72.87          | 79,22          | 0.000133             | 2.33     | 531.09               | 76.87                        | 0.1          |
| Vorth Main               | below diversion                          | 105350                | 3235.00            | 70.00          | 84.66          | 73.94<br>75.33 | 81.93          | 0.000147             | 2.94     | 749.10               | 87.39                        | 0.1          |
| Vorth Main               | below diversion                          | 105350                | 7583.00            | 70.00          | 88.33          | 78.98          | 88.34          | 0.000036             | 1.71     | 10770.00<br>38386.21 | 7211.64                      | 0.0          |
| - 3                      | 1 1 2 2 4 7 2 11                         |                       | 1335,50            | . 0.00         |                | 70.50          | 00.34          | 0.00011              | 1.00     | 36366.21             | 12833.34                     | 0.0          |
| North Main               | below diversion                          | 105335                | Bridge             |                |                |                |                |                      |          |                      |                              |              |
|                          | 1 A 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                       |                    |                |                |                |                |                      |          |                      |                              |              |
| North Main               | below diversion                          | 105320                | 1138.00            | 70.00          | 79.13          | 72.87          | 79.21          | 0.000133             | 2.33     | 530.09               | 76.82                        | 0.1          |
| North Main               | below diversion                          | 105320                | 1918.00            | 70.00          | 81.69          | 73.94          | 81.82          | 0.000152             | 2.97     | 739.48               | 86.96                        | 0.1          |
| Vorth Main               | below diversion                          | 105320                | 3235.00            | 70.00          | 84.84          | 75.33          | 84.86          | 0.000037             | 1.72     | 10640.34             | 7156.52                      | 0.0          |
| Vorth Main               | below diversion                          | 105320                | 7583.00            | 70.00          | 88.32          | 78.93          | 88.32          | 0.000011             | 1.09     | 36113.93             | 12809.59                     | 0.0          |
| Language L               | 11/18/19/2012/20                         | Santa Page 1          |                    |                |                |                |                | - "                  |          |                      |                              |              |
| North Main               | below diversion                          | 105235                | 1136.00            | 70.00          | 79.12          | 72.87          | 79.20          | 0.000134             | 2.33     | 529.31               | 78.78                        | 0.1          |
| forth Main               | below diversion                          | 105235                | 1918.00            | 70.00          | 81.67          | 73.94          | 81.81          | 0.000153             | 2.97     | 738.45               | 86.91                        | 0.10         |
| North Mein               | below diversion                          | 105235                | 3235.00            | 70.00          | 84.84          | 75.33          | 84.86          | 0.000039             | 1.78     | 10170.25             | 7035.25                      | 0.0          |
| North Mein               | below diversion                          | 106235                | 7583.00            | 70.00          | 88.31          | 78.93          | 88.32          | 0.000012             | 1.12     | 35001.49             | 12719.32                     | 0.09         |
|                          |  | 2                     |                    |                |                |                |                |                      |          |                      |                              |              |
| North Main               | below diversion                          | 104800                | 1136.00            | 70,00          | 79.05          | 72.81          | 79.14          | 0.000136             | 2.35     | 528.62               | 77.73                        | 0.14         |
| North Make               | below diversion                          | 104800                | 1918.00            | 70.00          | 81.60          | 73.90          | 81.73          | 0.000155             | 2.99     | 740.37               | 68.52                        | 0.1          |
| North Main<br>North Main | below diversion                          | 104800                | 3235.00            | 70.00          | 84.77          | 75.30          | 84,83          | 0.000078             | 2.50     | 6880.31              | 5451.45                      | 0.1          |
| WAR GO PROBEE            | DOION GIROLENTI                          | 104600                | 7583.00            | 70.00          | 88.31          | 78.91          | 88.31          | 0.000014             | 1.25     | 34562.56             | 9493.01                      | 0.0          |
| North Main               | below diversion                          | 104148                | 1138.00            | 70.00          | 78.98          |                | 70.05          | 0.000400             |          |                      |                              |              |
| North Main               | below diversion                          | 104148                | 1918.00            | 70.00          | 81.51          |                | 79.05<br>81.63 | 0.000122             | 2.22     | 558.61               | R2.33                        | 0.1          |
| North Main               | below diversion                          | 104146                | 3235.00            | 70.00          | 84.67          |                | 84.77          | 0.000103             | 2.88     | 782.92<br>4578.88    | 94.2 <del>8</del><br>3755.24 | 0.1          |
| North Main               | below diversion                          | 104146                | 7583.00            | 70.00          | 88.30          |                | 88.31          | 0.000019             | 1.43     | 31274.26             | 9580.75                      | 0.1          |
|                          |  |                       |                    |                |                |                | - 55.51        | 0.000010             | - 1.40   | 31274.20             | 9300.13                      | 0.0          |
| Vorth Main               | below diversion                          | 104116                | 1136.00            | 70.00          | 78.97          |                | 79.05          | 0.000122             | 2.22     | 558,31               | 82.31                        | 0.1          |
| North Main               | below diversion                          | 104116                | 1918,00            | 70.00          | 81.51          |                | 81.63          | 0.000140             | 2.83     | 782.51               | 94.24                        |              |
| North Main               | below diversion                          | 104116                | 3235.00            | 70.00          | 84.67          |                | 84.77          | 0.000104             | 2.88     | 4564.89              | 3747.76                      | 0.1          |
| North Main               | below diversion                          | 104116                | 7583.00            | 70.00          | 88.30          |                | 88.30          | 0.000019             | 1.43     | 31223.03             | 9577.54                      | 0.0          |
| <u> </u>                 | + 1 gman9(geo.c                          |                       |                    |                |                |                |                |                      |          |                      |                              |              |
| North Main               | below diversion                          | 103006                | 1136.00            | 70.00          | 78.84          |                | 78.92          | 0.000129             | 2.26     | 547.57               | 81.68                        | 0.1          |
| North Main               | below diversion                          | 103006                | 1918.00            | 70.00          | 81.36          |                | 81.48          | 0.000147             | 2.87     | 768.40               | 93.55                        | 0.1          |
| North Main               | below diversion                          | 103008                | 3235.00            | 70.00          | 84.54          |                | 84.65          | 0.000115             | 3.02     | 4108.59              | 3495.11                      | 0.1          |
| North Main               | below diversion                          | 103006                | 7583.00            | 70.00          | 88.28          |                | 88.29          | 0.000019             | 1.44     | 31067.61             | 9587.80                      | 0.0          |
| North Main               | halori dhaarta                           | 102013                | 1400.00            | 70.00          |                |                |                |                      |          |                      |                              |              |
| ionin Main               | below diversion                          | 102913                | 1136,00<br>1918,00 | 70.00<br>70.00 | 78.83          |                | 78.91          | 0.000133             | 2.29     | 535.68               | 78.95                        | 0.1          |
| Vorth Main               | below diversion                          | 102913                | 3235.00            | 70.00          | 81.35<br>84.53 |                | 81.48          | 0.000151             | 2.91     | 747.37               | 89.33                        |              |
| forth Main               | below diversion                          | 102913                | 7583.00            | 70.00          | 88.27          |                | 84.85<br>88.29 | 0.000122             | 3.10     |                      | 2508.14                      | 0.1          |
|                          |  |                       | . 535.00           | .0.00          | 30.27          |                | 56,29          | 0.00032              | 1.86     | 24521.66             | 8507.49                      | 0.0          |
| Vorth Main               | below diversion                          | 102850                | 1136.00            | 70.00          | 78.82          | 72.83          | 78.90          | 0.000130             | 2.26     | 546.17               | 81.59                        | 0.1          |
| orth Main                | below diversion                          | 102850                | 1918.00            | 70.00          | 81.34          | 73.67          | 81.46          | 0.000130             | 2.88     | 766.28               | 93.45                        | 0.1          |
| forth Main               | below diversion                          | 102850                | 3235.00            | 70.00          | 84.53          | 75.04          | 84.64          | 0.000116             | 3.03     | 4077.58              | 3477.28                      |              |
| Vorth Main               | below diversion                          | 102850                | 7583.00            | 70.00          | 88.27          | 78.53          | 88.27          | 0.000019             | 1.45     | 30945.03             | 9560.11                      | 0.0          |
|                          | F1 (1) Y VA 1                            |                       |                    |                |                |                |                |                      |          | 00040.00             | 0000.11                      |              |
| Vorth Main               | below diversion                          | 102835                | Bridge             |                |                |                |                |                      |          |                      |                              |              |
| 11.00                    | by a mar ( Aim)                          | 1.5°                  |                    |                |                |                |                |                      |          |                      |                              |              |
| iorth Main               | below diversion                          | 102820                | 1136.00            | 70.00          | 78.81          |                | 78.89          | 0.000131             | 2.27     | 545.15               | 81.53                        | 0.1          |
| North Main               | below diversion                          | 102820                | 1918.00            | 70.00          | 81.32          |                | 81.44          | 0.000149             | 2.88     | 764.80               | 93.37                        | 0.1          |
| iorth Main               | below diversion                          | 102820                | 3235.00            | 70.00          | 84.46          |                | 84.57          | 0.000123             | 3.11     | 3809.40              | 3319.03                      | 0.1          |
| forth Main               | below diversion                          | 102820                | 7583.00            | 70.00          | 88.25          |                | 88.25          | 0.000020             | 1.46     | 30748.14             | 9547.74                      |              |
|                          | 1 2 2 2 2 2                              |                       |                    |                |                |                |                |                      |          |                      |                              |              |
| North Main               | below diversion                          | 102600                | 1136.00            | 70.00          | 78.76          |                | 78.86          | 0.000155             | 2.45     | 496.30               | 72.57                        | 0.1          |
| Vorth Main               | below diversion                          | 102600                | 1918.00            | 70.00          | 81.26          |                | 81,40          | 0.000177             | 3.13     | 688.07               | 81.30                        | 0.1          |
| forth Main               | below diversion                          | 102800                | 3235.00            | 70.00          | 84.34          |                | 84.52          | 0.000178             | 3.71     | 1959.50              | 1367.33                      |              |
| lorth Main               | below diversion                          | 102800                | 7583.00            | 70.00          | 88.22          |                | 88.24          | 0.000042             | 2.12     | 22384.68             | 8346.35                      | 0.0          |
| North Faci               | balana di tan                            | 101822                |                    |                |                |                |                |                      |          |                      |                              |              |
| iorth Main<br>Iorth Main | below diversion                          | 101500                | 1136.00            | 70.00          | 78.59          |                | 78.68          | 0.000157             | 2.43     | 502.21               | 75.90                        | 0.1          |
|                          | below diversion                          | 101500                | 1918.00            | 70.00          | 81.06          | i              | 81.21          | 0.000177             | 3.09     | 702.14               | 85.91                        | 0            |

HEC DAS Plan P 10 D 2 (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev River Sta E.G. Slope Vel Chirl Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (fVff) (ft/e) (sq ft) (h) North Main 3235.00 101500 84.30 below diversion 70.00 0.000212 4.01 1068.96 546.11 0.19 North Main elow diversion 101500 7583.00 70.00 88.15 88.19 0.000061 2.55 18396.50 7634.97 0.11 78.33 North Main elow diversion 00000 1130.0 70,00 0.00019 75.87 2.43 0.16 North Main 1918.00 70.00 80.79 80.93 0.000194 below diversion 100000 3.01 673.42 84.54 0.17 North Mair below divers 100000 3235.00 70.00 83.76 83 98 0.000214 3.79 989 41 132.47 0.19 North Main below diversion 100000 7583.00 70.00 87 84 88.02 0.000193 4.35 8521.75 5579.69 0.19 1136.00 78.31 North Main below diversion 99900 70.00 78.40 0.000179 2.38 485.99 76.35 0.16 North Main below diversion 99900 1918.00 70.00 80.77 80.90 0.000186 2.96 684.66 85.40 0.17 North Main below diversion 99900 3235.00 70.00 83.74 83.95 0.000206 3.73 1002.69 132.32 0.19 North Main below diversion 99900 7583.00 70,00 87.83 88.00 0.000176 4.18 8983.38 5647.58 0.18 North Main elow diversion 99708 1136.00 70.00 78.27 78.35 0.000186 2.37 489.31 80.78 0.16 North Main below diversion 99708 1918.00 70.00 80.73 80.86 0.000185 2 91 700.34 91.00 0.17 North Main below diversion 99708 3235.00 70.00 83.71 83.91 0.000199 3.64 1023.96 128.39 0.18 7583.00 0.000199 North Main below diversion 99708 70.00 87.75 87.95 4.40 7876.45 5069.39 0.19 North Main below diversion 1136.00 70.00 78.22 78.33 0.000221 2.61 443.59 70.57 0.17 North Main below diversion 99592 1918.00 70.00 80.67 80.83 0.000227 3.23 626.54 79.01 0,19 North Main below diversion 99592 3235 00 70.00 83 63 R3 88 0.000249 4 06 921.88 126.95 0.20 North Main below diversion 99592 7583.00 70.00 87.67 87.92 0.000249 4.91 7308.17 5036.66 0.21 North Main 99550 1136.00 70.00 78.23 72.70 78.31 0.000198 76.44 below diversion 2.32 488.60 0.16 North Main below diversion 1918.00 70.00 80.69 73.75 80.81 0.000213 2.78 689.64 86.64 0.17 North Main 99550 3235.00 70.00 83.67 75.19 83.85 0.000234 3.33 1019.39 171.82 0.19 North Main below diversion 99550 7583.00 70.00 87.76 78.61 87.87 0.000160 3765.68 0.16 3.44 8249.87 North Main below diversion 99535 Bridge North Main 1136.00 70.00 78.21 72.70 0.000199 78.29 2.33 487.33 76.37 0.16 elow diversion North Main below diversion 99520 1918.00 70.00 80.67 73.75 80.79 0.000215 2.79 86.54 687.71 0.17 North Main 3235.00 70.00 75.18 elow diversion 83.64 83.81 0.000237 3.34 1013.83 169.39 North Main elow diversion 99520 7583.00 70.00 87.65 78.60 0.000173 3.56 7855.45 3707.09 0.17 87.78 North Main below diversion 99507 1136.00 70.00 78.21 78.29 0.000200 2.33 487.13 78.36 0.16 0.000215 North Main below diversion 99507 1918.00 70.00 80.67 80.79 2.79 687.46 86.53 0.17 North Main below diversion 169.20 99507 3235.00 70.00 83.63 83,80 0.000237 3.34 1022.19 0.19 elow diversion 99507 7583.00 70.00 0.000173 3.57 7833.86 3703.8 0.17 North Main selow diversion 98900 1152.00 70.00 78 DR 78 17 0.000198 2.42 482.00 77.67 0.16 North Main below diversion 98900 1957.00 70.00 BD 52 80.66 0.000200 3.00 686.33 95.61 0.17 North Main below diversion 98900 3301.00 70.00 83.45 83.67 0.000218 3.76 992.10 115.40 0.19 North Main elow diversion 96900 7683.00 70.00 87.30 87,62 0.000292 5.24 5549.72 3856.36 0.23 70.00 481.11 79.52 1152.00 77.88 2.43 North Main below diversion 97900 77.97 0.000202 0.17 North Main below diversion 97900 1957.00 70.00 80.33 80.46 0.000201 2.99 97.46 0.18 3301.00 70.00 83.24 0.000217 126.5 North Mair elow diversion 7900 83.45 3.74 1009.59 0.19 97900 North Main below diversion 7683.00 70.00 87.06 87.33 0.000259 4.91 5632.27 3134.47 0.22 1152.00 68.00 77.44 77.51 0.000121 2.17 552.37 77.90 0.13 North Main below diversion 95000 1957.00 68.00 79.83 79.95 North Main below diversion 95000 0.000147 2.83 750.33 87.74 0.15 95000 3301.00 68.00 82.65 82.86 0.000183 1116.41 183.40 North Main below diversion 3.69 0.18 North Main below diversion 95000 7683.00 68.00 0.00032 5.73 3891.27 1876.65 0.25 North Main below diversion 94730 1152 00 68.00 77.41 77 49 0.000131 2 25 532.38 75.43 0 14 North Main below diversion 94730 1957.00 68.00 79.78 79.91 0.000160 2.93 722.17 84.73 0.16 North Main below diversion 94730 3301.00 68.00 82.58 82.80 0.000201 3.85 974.54 95.34 0.19 94730 7683.00 0.000330 85.96 5.73 2948.24 North Main 68.00 4702.53 0.25 below diversion North Main below diversion 94655 1152 00 68.00 77.40 70 75 77 47 0.000117 2.13 559.00 77 58 0.13 below diversion North Mair 04855 1957 00 68 00 79 77 71.84 79 89 0.000143 2.79 762 20 93.89 0.15 North Main below diversion 94655 3301.00 68.00 82.58 73.32 82.77 0.000179 3.64 1091.51 154.80 0.17 85.96 North Main below diversion 94655 7683.00 68.00 76.74 86.33 0.000301 5.49 4563.35 2535.11 0.24 94635 Bridge North Main below diversion North Main 94620 1152.00 68 00 77.37 77 44 0.000118 556.85 77.48 0.13 below diversion North Main below diversion 94620 1957.00 68.00 79.74 79.86 0.000144 2.80 759.37 93.70 0.15 North Main below diversion 94620 3301.00 68.00 82.55 82.75 0.000180 3.65 1087.82 153.95 0.18 North Main below diversion 94620 7683.00 68.00 85.65 86.10 0.000358 5.91 3806.17 2310.04 0.26 77.36 77.43 556.13 77.44 1152.00 68.00 0.000119 0.13 North Main below diversion 1957.00 68.00 79.72 0.000145 0.15 North Main below diversion 94530 79.84 2.80 758.29 93.63 North Main below diversion 94530 3301.00 68.00 82.54 82.74 0.000180 3.66 1085,58 153.43 0.18 North Mair elow diversion 94530 7683 00 68.00 85.60 86 06 0.000367 5.98 3699.51 2276.54 0.26 1152.00 77.11 0.000184 92150 68,00 77.02 71.04 2.38 485.10 73.02 North Main below diversion 0.16 1957.00 68.00 79.32 79.46 0.000204 3.03 675.72 94.78 0.17 72.22 North Main below diversion 92150 North Main 92150 3301.00 68.00 82.05 73.79 82.28 0.000237 3.88 981.99 0.20 below diversion 7683.00 68.00 85.30 77.30 85.42 0.000171 7001.99 5458.99 0.17 North Main elow diversion 92150 3.86 elow diversion North Main 92135 Bridge

HEC DAS Plan: P 10 D 2 (Continued)
River Reach River Ste 9 Total Vel Chril Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Flow Area Top Width Froude # Chl (cfs) (#) (ft) (11) (ft/s) (aq fi) (ft) North Main below diversion 92120 1152.00 68 00 77.01 71 04 77.10 0.000185 2.39 484.36 72.98 0.16 North Main below diversion 92120 1957.00 68.00 79.30 72.22 79.44 0.000206 3.04 673.70 94 58 0.18 North Main elow diversion 92120 3301.00 68.00 82.00 73.79 82.23 0.000240 3.89 976.07 131.94 0.20 below diversion 92120 7683.00 68.00 84.65 0.000272 4,69 84.45 77,30 5711.31 4291.53 0.22 selow diversion North Main 91139 1†52.00 68.00 76.81 76.91 0.000203 2,46 470.29 72.16 0.17 North Mai 91139 1957 00 68.00 79.08 72.22 79.23 0.000223 3,12 653.48 92.50 0.18 North Main below diversion 91139 3301.00 68.00 81.75 73.79 81.99 0.000260 3.99 942 69 0.21 128.04 North Main below diversion 91139 7683.00 68.00 84.07 77.30 84.34 0.000342 5.16 5785.02 3816.96 0.24 North Mair 91050 1152.00 68.00 76.79 76.89 below diversion 0.000205 2.47 468.42 0.17 71.03 71.84 North Main below diversion D1050 1957.00 68.00 79.06 79.21 649.17 72.22 0.000225 3.13 90.10 0.18 North Mair below diversion 91050 3301.00 68.00 B1.72 73.78 81.96 4.01 0.21 128.49 North Main one diversion 91050 7683.00 68.00 84.31 0.000351 5.22 B4.03 77.31 5709.10 3767.43 0.25 North Main 1152.00 68.00 76.36 2.54 below diversion 88841 76.28 70.90 0.000240 453.07 72 23 0.18 North Main 88841 68.00 1957.00 78.85 noisravib woled 78.49 72.04 0.000253 3.19 624.49 81.80 0.19 88841 3301.00 68.00 81.07 81.32 1127.48 below diversion 73.5€ 0.000283 4,02 558.78 0.21 North Main 86641 7683.00 68.00 83.49 77.0 3.98 7820.02 15498.35 0.19 0.000213 North Main below diversion 88488 1152.00 68.00 76.22 70.92 76.32 0.000252 2,59 444 24 71.32 0.18 North Main below diversion BB488 1957.00 68.00 78.44 72 07 78.60 0.000265 3 25 616 4P 89 98 0.20 North Main elow diversion 3301.00 68.00 B1.03 73.60 81.27 0.000286 4.03 1232.34 743.99 0.21 North Main 68.00 7683.00 83.41 77.10 83.57 0.000256 4.36 6816.75 13565.41 0.21 North Mair RARION 1152.00 68.00 76.17 70.**90** 76.27 0.000251 2.59 445.11 0.18 71.19 below diversion 88.72 North Main 88300 1957.00 68.00 78,39 72.04 78.55 0.000264 3.25 615.88 0.20 North Main below diversion 88300 3301.00 68.00 80.97 73.55 81.21 0.000288 4.05 1139 30 579 AC 0.21 North Main 68.00 low diversion 88300 7683.00 83.32 77.04 83.52 0.000294 4,84 5242.00 12412.72 0.22 North Main elow diversion 87300 1152.00 68.00 75,89 70.89 78.00 0.000287 2.71 424.65 69.37 0.19 North Main 1957.00 68.00 78.10 72.02 78.27 87300 0.000297 3.36 598.00 170.96 0.21 North Main below diversio 87300 3301.00 68.00 80.72 73.55 80 92 0.000270 3.86 1686 73 1271.95 0.21 North Main below diversion 87300 7683.00 68.00 83.19 77.04 83.27 0.000163 3.44 9458,41 14227.16 0.17 68.00 75.37 71.09 75.52 0.000442 North Main 1152.00 383.42 below diversion 3.17 65.13 0.24 North Main 1957.00 68.00 77.58 77.79 0.000432 below diversion 72.28 516.23 3.83 74.40 0.25 North Main below diversion 3301.00 68.00 80.08 73.87 80.44 0.000454 4.76 808.15 0.26 679.57 North Main 82.95 6942 68.00 82.75 6684.4 7683.00 77.39 4.81 16908.04 0.24 North Main balow diversion 85850 1152.00 68.00 75.34 71 12 75.50 0.000454 3 19 381 69 65.82 0.24 North Main below diversion 85850 1957.00 68.00 77.52 72.33 77.75 0.000439 3.83 518,38 75.66 0.25 North Main 68.00 80.41 3301.00 80.08 73.90 0.000454 below diversion 4.73 792.46 670.18 0.26 North Main 85850 68.00 82.58 77.40 0.000483 7683.00 82.90 5.67 4819.95 17711.71 0.28 North Main 85835 Bridge olow diversion North Main below diversion 85820 1152.00 68.00 75.28 71.12 75.44 0.000468 3.22 357.60 65.54 0.24 1957.00 68.00 77.46 77.69 511.43 North Main below diversion 85820 72.33 0.000452 3.66 75.36 0.25 85820 3301.00 68.00 79.96 73.91 80.31 North Main 0.000464 4.75 825.48 194.05 slow diversion 0.27 85820 7683.00 82.25 77.41 0.000594 4065.55 6.18 17431.05 0.31 elow diversion North Main aine diversion 85763 1152 00 66.00 75 25 71 12 75 41 0.000474 3 24 355 95 65.43 0.24 North Main below diversion 85763 1957.00 68.00 77,43 72.33 77.67 0.000457 3.67 509.59 75.25 0.25 85763 3301.00 68.00 79.93 80.28 North Main below diversion 73.91 0.000477 4.B1 761.20 132.32 0.27 81.62 77.40 82.48 North Mair 85783 7683.00 68.00 2157.85 0.001103 8.12 1321.40 0.42 North Main oelow diversion 83100 1152 00 68.00 74.39 69 12 74.50 0.000269 2.69 429.36 69.60 0.19 Morth Mair 83100 1957 00 66.00 76 55 70.33 78 73 0.000285 3.39 590.35 79.10 0.20 elow diversio North Main balow diversion 83100 3301.00 66.00 78.92 71.92 79.22 0.000352 4.40 844.96 159.44 0.24 North Main below diversion 83100 7683,00 66.00 81.63 75.44 81.66 0.000092 2.61 14968.18 17502.48 0.12 82100 66.00 73.99 74.18 North Main below diversion 1152.00 69.46 0.000375 3.48 360.64 0.23 North Main 82100 1957.00 66.00 76.06 70.70 76.36 4.51 0.000448 501.46 233.23 0.26 Morth Main below diversion 82100 3301.00 66 00 78 21 72.34 78 74 0.000807 6.03 669.09 1451.12 0.31 North Main 82100 7683.00 66.00 81.52 76.48 81.56 0.000108 2.99 12412.37 17298.99 0.14 66.00 73.95 74.14 3.50 North Main 1152.00 69.46 63.17 0.000382 358.06 0.23 elow diversion 62000 below diversion North Main 82000 1957.00 66.00 76.01 70.70 76.31 0.000457 4.53 497.80 0.26 223.96 3301.00 1384,40 66.00 78.14 72.34 78 68 6.07 0.32 North Main below diversion 82000 0.000821 663.13 North Main 82000 7683.00 66.00 81.52 76.48 81.55 0.000107 3.00 12385.34 17293.77 0.14 below diversion 73.56 North Main below diversion 81100 1152.00 66.00 69.22 73.78 0.000427 3,81 354.96 77.38 0.25 88.00 1957.00 75.50 70.49 75.86 0.000538 489.69 0.29 North Main below diversion 81100 5,00 580.26 66.00 72.26 78.07 6.63 North Main 3301.00 0.000733 753,69 968.84 0.35 below diversion 81100 81100 7683.00 66.00 79.39 0.001890 11.83 1348.17 2704.36 0.57 North Main below diversion North Mair 80100 1152 00 66.00 73 20 69 04 73.38 0.000380 3 30 407 49 88 37 0.23 North Main noisrevib woled 80100 1957.00 66.00 75.09 70.23 75.35 0.000444 4,22 596.13 115.81 0.26 77.35 895.22 3301.00 66.00 76.90 71.79 0.000611 North Main below diversion 80100 5,64 640.53 0.31 North Main 66.00 78.57 75.54 79.38 2581.03 970.37 7683.00 0.001173 8,65 0.44 below diversion 80100

|                          | Plan: Plini                           |                | Q Total            | Min Ch El   | W.S. Elev    | Crit W.S.    | E.G. Elev  | E.G. Slope   | Vel Chal     | How Area     | Top Width                             | Froude # Chl  |
|--------------------------|---------------------------------------|----------------|--------------------|-------------|--------------|--------------|--|--------------|--------------|--------------|---------------------------------------|---------------|
| River                    | Reach                                 | River Sta      | (cfs)              | (ft)        | (A)          | (ft)         | (fi)   | (n/h)        | (ft/e)       | (aq ff)      | (ft)                                  | TIOGGE & CIII |
| North Main               | below diversion                       | 79100          | 1152.00            | 66.00       | 72.63        | 69.23        | 72.87  | 0.000627     | 3.95         | 305.19       | 216.19                                | 0.29          |
| North Main               | below diversion                       | 79100          | 1957.00            | 66.00       | 74.37        | 70.42        | 74.77  | 0.000745     | 5.12         | 418.78       | 306.47                                | 0.33          |
| North Main               | below diversion                       | 79100          | 3301.00            | 66.00       | 75.69        | 71.99        | 76.48  | 0.001217     | 7.27         | 514.43       | 407.29                                | 0.43          |
| North Main               | below diversion                       | 79100          | 7683.00            | 66,00       | 78.01        | 78.01        | 78.33  | 0.000721     | 6.53         | 4290.52      | 10257.41                              | 0.34          |
|                          |                                       | - X-25 (A) (A) |                    |             |              |              |  |              |              |              |                                       | Ċ             |
| North Main               | below diversion                       | 77548          | 1152.00            | 66.00       | 71.78        | 68.57        | 71.95  | 0.000541     | 3.39         | 347.30       | 74.86                                 | 0.26          |
| North Main               | below diversion                       | 77548          | 1957.00            | 66.00       | 73.39        | 69.60        | 73.68  | 0.000619     | 4.34         | 474.93       | 83.04                                 | 0.29          |
| North Main               | below diversion                       | 77548          | .3301.00           | 66.00       | 73.47        | 70.89        | 74.27  | 0.001697     | 7.25         | 481.16       | 83.42                                 | 0.49          |
| North Main               | below diversion                       | 77548          | 7683.00            | 66.00       | 75.72        | 75.15        | 75.85  | 0.000496     | 4.74         | 9109.66      | 6519.96                               | 0.28          |
|                          |                                       |                |                    |             |              |              |  |              |              |              |                                       |               |
| North Main               | below diversion                       | 77538          | 1152.00            | 62.00       | 71.82        | 65.22        | 71.90  | 0.000139     | 2.34         | 519.18       | 74.98                                 | 0.14          |
| North Main               | below diversion                       | 77538          | 1957.00            | 62.00       | 73.45        | 66.46        | 73.61  | 0.000218     | 3.30         | 647.25       | 82.23                                 | 0.18          |
| North Main               | below diversion                       | 77538          | 3301.00            | 62.00       | 73.62        | 68.05        | 74.07  | 0.000584     | 5.48         | 661.33       | 82.99                                 | 0.30          |
| North Main               | below diversion                       | 77538          | 7683.00            | 62.00       | 75.69        | 71.64        | 75.84  | 0.000339     | 4.72         | 9690.35      | 6635.47                               | 0.24          |
| 41                       |                                       | 77419          | 1152.00            | 62.00       | 71.81        | 65.22        | 71.89  | 0.000139     | 2.35         | 518.38       | 74.93                                 | 0.14          |
| North Main               | below diversion                       | 77419          | 1957.00            | 62.00       | 73.42        | 66.46        | 73.59  | 0.000139     | 3.31         | 645.03       | 82.11                                 | 0.18          |
| North Main<br>North Main | below diversion                       | 77419          | 3301.00            | 62.00       | 73.54        | 68.05        | 74.00  | 0.000600     | 5.52         | 654.89       | 82.65                                 | 0.31          |
| North Main               | below diversion                       | 77419          | 7683.00            | 62.00       | 75.14        | 71.64        | 75.74  | 0.000933     | 7.59         | 4168.02      | 6008,66                               | 0.39          |
| r d agliga, he was       | DEION GROIDEIL                        |                | 7000.00            | 02.00       | 70.17        | 71.07        | , , ,  | **********   | , , , , , ,  | ,,,,,,,      |                                       |               |
| North Main               | below diversion                       | 77357          | 1152.00            | 62.00       | 71.81        | 64.93        | 71.87  | 0.000117     | 2.05         | 567.86       | 78,87                                 | 0.13          |
| North Main               | below diversion                       | 77357          | 1957.00            | 62.00       | 73.43        | 66.07        | 73.56  | 0.000179     |              | 701.20       | 1800.06                               | 0.16          |
| North Main               | below diversion                       | 77357          | 3301.00            | 62.00       | 73.59        | 67.59        | 73.95  | 0.000481     | 4.78         | 715.50       | 2346.27                               | 0.27          |
| North Main               | below diversion                       | 77357          | 7683.00            | 62.00       | 75.40        | 71.07        | 75.60  | 0.000415     | 4.97         | 5972.02      | 6308.07                               | 0.26          |
|                          |                                       |                |                    |             |              |              |  |              |              | -            |                                       |               |
| North Main               | below diversion                       | 77343          | Bridge             |             |              |              |  |              |              |              |                                       |               |
|                          |                                       | M. 20 75       |                    |             |              | ļ            | ļ  |              | ļ            |              |                                       |               |
| North Main               | below diversion                       | 77329          | 1152.00            | 62.00       | 71.79        | 64.93        | 71.86  | 0.000117     | 2.06         | 566.73       | 78.81                                 | 0.13          |
| North Main               | below diversion                       | 77329          | 1957.00            | 62.00       | 73.40        | 66.07        | 73.53  | 0.000181     | 2.89         | 699.24       | 1346.45                               | 0.17          |
| North Main               | below diversion                       | 77329          | 3301.00            | 62.00       |              | 67.59        | 73.89  | 0.000491     | 4.81         | 710.31       | 1747.51                               | 0.27          |
| North Main               | below diversion                       | 77329          | 7683.00            | 62.00       | 75.12        | 71.07        | 75.42  | 0.000555     | 5.66         | 5336.46      | 5752.63                               | 0.30          |
| 27 2 22 2                | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77179          | 1152.00            | 60.10       | 71.79        | 63.12        | 71.84  | 0.000079     | 1.80         | 644.65       | 78.79                                 | 0.11          |
| North Main               | below diversion                       | 77179          | 1957.00            |             |              | 64.36        |  | +            |              | 777.02       | 2322.59                               | 0.11          |
| North Main<br>North Main | below diversion                       | 77179          | 3301.00            |             |              | 66.07        | 73.78  | 0.000130     | 3.90         | 2050.43      |                                       | 0.14          |
| North Main               | below diversion                       | 77179          | 7683.00            |             | <del></del>  | 69.91        | 75.32  | 0.000274     |              | 6426.33      | 4                                     | 0.24          |
| (40) tri mairi           | Delon diversion                       | 1,1,1,0        | 7000,00            | 55.10       |              | 00.01        | 1  | 0.00001      | 4.55         | 0.20.00      |                                       |               |
| North Main               | below diversion                       | 77143          | Culvert            |             |              | *            | · · · · · ·  | T            | <b> </b>     |              | · · · · · · · · · · · · · · · · · · · |               |
|                          |                                       |                |                    |             |              |              |  |              | 1            |              |                                       |               |
| North Main               | below diversion                       | 77107          | 1152.00            | 60.10       | 70.33        | 63.12        | 70.40  | 0.000143     | 2.16         | 534.23       | 72.44                                 | 0.14          |
| North Main               | below diversion                       | 77107          | 1957.00            | 60.10       | 72.07        | 64.36        | 72.21  | 0.000205     | 2.97         | 666.72       | 80.00                                 | 0.17          |
| North Main               | below diversion                       | 77107          | 3301.00            | 60.10       | 73.46        | 66.07        | 73.75  | 0.000365     | 4.35         | 781.93       | 2323.04                               | 0,23          |
| North Main               | below diversion                       | 77107          | 7683.00            | 60.10       | 75.06        | 69.91        | 75.28  | 0.000396     | 4.98         | 6239.92      | 5576.18                               | 0.25          |
|                          |                                       |                |                    | L           |              |              |  |              |              |              |                                       |               |
| North Main               | below diversion                       | 76585          | 1152.00            | <del></del> |              | 63.03        | +  | 0.000106     | +            | 580.95       | <del> </del>                          | 0.12          |
| North Main               | below diversion                       | 76585          | 1957.00            |             |              |              | 72.10  |              | +            | 721.42       | <del>-</del>                          | 0.16          |
| North Main               | below diversion                       | 76586          | 3301.00            | 60.00       | <del>+</del> | 65.79        | +  |              |              | 839.31       | 2131.94                               |               |
| North Main               | below diversion                       | 76585          | 7683.00            | 60.00       | 74.67        | 69.30        | 75.02  | 0.000499     | 5.82         | 5214.89      | 7598.22                               | 0.29          |
|                          |                                       |                | 1150.00            |             | 70.00        |              | 70.07  | 0.00044      |              | 500.70       | 89.06                                 | 0.13          |
| North Main               | below diversion                       | 76000          | 1152.00            | +           |              |              | <del> </del>                                       | 0.000114     | <del></del>  |              | +                                     | <del>,</del>  |
| North Main<br>North Main | below diversion                       | 76000<br>76000 | 1957.00<br>3301.00 |             |              |              | <del>•                                      </del> | +            |              | 950.26       |                                       | <del></del>   |
| North Main               | below diversion                       | 76000          | 7683.00            |             |              |              | <del></del>  | <del> </del> | +            | 9274.96      |                                       | <del>+</del>  |
| ACM I MINI               | DOTOM C(VOIDIGHT)                     | 1,000          | 1000.00            | 00.00       | 74.51        | - 55.50      | 1  |              | 1            |              |                                       |               |
| North Main               | below diversion                       | 75929          | 1152.00            | 60.00       | 70.19        | 63.16        | 70.27  | 0.000116     | 2.22         | 555.56       | 94.67                                 | 0.13          |
| North Main               | below diversion                       | 75929          | 1957.00            |             |              |              |  | <del></del>  | 3.11         | 738.96       | 124.69                                | 0.17          |
| North Main               | below diversion                       | 75929          | 3301.00            |             | 73.05        | 65,96        | 73.36  | 0.000341     | 4.58         | 1209.72      | 3927.68                               | 0.24          |
| North Main               | below diversion                       | 75929          | 7683.00            | 60.00       | 74.62        | 69.54        | 74.72  | 0.000210     | 3.91         | 10466.01     | 10544.76                              | 0.19          |
|                          | Y The Supplement                      | 13.4 7 3       |                    |             |              |              | ļ  |              |              |              |                                       |               |
| North Main               | below diversion                       | 75866          | 1152.00            |             |              |              |  |              |              | 551.06       |                                       |               |
| North Main               | below diversion                       | 75868          | 1957.00            |             |              |              |  |              |              |              |                                       |               |
| North Main               | below diversion                       | 75868          | 3301.00            |             | <del>)</del> |              |  |              | <del></del>  |              |                                       |               |
| North Main               | below diversion                       | 75866          | 7683.00            | 60.00       | 74,62        | 69.52        | 74.70  | 0.000186     | 3.69         | 11092.26     | 10170.00                              | 0.18          |
|                          |                                       |                | ļ                  | ļ           | <del> </del> | ł            | <del>                                     </del>   | <del></del>  | <del> </del> |              | <del></del>                           |               |
| North Main               | below diversion                       | 75852          | Bridge             | ·           |              | <del> </del> |  |              | ļ            |              |                                       |               |
| North Mai-               | below diversion                       | 75838          | 1152.00            | 60.00       | 70.16        | 63.10        | 70.23  | 0.000118     | 2.22         | 548.90       | 81.52                                 | 0.13          |
| North Main<br>North Main | below diversion                       | 75838          | 1957.00            |             |              |              | -  | •            |              |              |                                       |               |
| North Main               | below diversion                       | 75838          | 3301.00            |             |              | +            |  | <u> </u>     |              |              |                                       |               |
| North Main               | below diversion                       | 75838          | 7683.00            |             |              |              |  |              | +            |              |                                       |               |
|                          |                                       |                |                    |             |              |              |  |              |              |              |                                       |               |
| North Main               | below diversion                       | 75752          | 1152.00            | 60.00       | 70,15        | 63.10        | 70.22  |              |              |              |                                       |               |
| North Main               | below diversion                       | 75752          | 1957.00            | 60.00       | 71,74        | 64.30        |  |              |              | <del>-</del> |                                       |               |
| North Main               | below diversion                       | 75752          | 3301.00            |             |              | <del></del>  |  |              |              |              |                                       |               |
| North Main               | below diversion                       | 75752          | 7683.00            | 60.00       | 74.44        | 69.48        | 74.59  | 0.000294     | 4.59         | 7676.49      | 9594.50                               | 0.22          |
|                          |                                       |                | ļ                  |             | ļ            | ļ            |  |              |              |              |                                       |               |
| North Main               | below diversion                       | 75000          | 1152.00            |             |              | +            |  |              | · · · · ·    |              |                                       |               |
| North Main               | below diversion                       | 75000          | 1957.00            |             |              |              |  |              |              |              |                                       | <del></del>   |
| North Main               | below diversion                       | 75000          | 3301.00            |             |              | -            |  |              |              |              | <del></del>                           |               |
| North Main               | below diversion                       | 75000          | 7683.00            | 60.00       | 74.38        | 69.3         | 74.4   | 0.00012      | 2.96         | 14212.70     | 9590.0                                | 7 0.14        |
|                          |                                       | lane.          |                    | +           |              |              |  |              | , ,,,        | 500.00       | 70.00                                 |               |
| North Main               | below diversion                       | 74000          | 1152.00            |             |              | +            |  |              |              |              | · · · · · · · · · · · · · · · · · · · |               |
| North Main               | below diversion                       | 74000          | 1957.00            | 60.00       | 71.52        | 64.70        | 71.6   | 0.00015      | 2.63         | 2367.4       | 2432.6                                | 7 0.15        |

HEC DAS Plan: P 10 D 2 (Continued)
River Reach River Sta Q Total Min Ch Et W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (11) (ft) (ft) (11/11) (ft/s) (ft pa) (ft)· 6279.98 North Main 74000 60.00 72.77 68.31 72.81 0.000103 4160.30 0.13 elow diversion 3301.00 2.33 North Minin elow diversion 74000 7683 DD 60.00 74.27 71.95 74.31 0.000126 2.82 11488.77 12909.47 0.14 North Main below diversion 73000 1341.00 60.00 69.73 63.27 69.84 0.000175 2.66 526.30 71.73 0.16 North Main below diversion 73000 2165.00 60.00 71.19 64.42 71.39 0.000267 3.65 634.51 76.98 0.20 2433.38 North Mein 3291.00 60.00 72.25 65.73 0.000414 4.85 1267.17 0.26 below diversion 73000 72.60 74.10 5.09 10305.88 0.25 North Main 73000 60.00 73.89 69.04 0.000379 6888.13 dow diversion 7282.00 North Main below diversion 72857 1341.00 60.00 69.71 63.22 69.81 0.000187 2.60 538.92 73.90 0.16 North Main helow diversion 72857 2165.00 60.00 71.16 64.35 71.36 0.000255 3.58 650 13 79.38 0.20 North Main below diversion 72857 3291.00 60.00 72.20 65.64 72.54 0.000405 4.79 1190.31 2473.68 0.25 North Main below diversion 72857 7282.00 60.00 73.75 68.91 74.03 0.000458 5.55 5973.00 9714.42 0.28 72794 60.00 69.69 69.81 0.000195 2.78 503.16 69.65 0.17 North Mair 1341.00 63.39 North Main 2165.00 60.00 71.13 64.57 71.34 0.000281 3.71 274.14 0.21 belów diversion 72794 4 89 1664.83 3536.55 0.26 North Mair elow diversion 72794 3291.00 60.00 72.18 65.**89** 72.52 0.000428 7282.00 73.63 69.29 73.97 0.000299 4 49 8491.18 12862.50 0.22 North Main below diversion 72794 60.00 North Main below diversion 72780 Bridge North Main 72766 0.000197 2.79 501.73 69.58 0.17 1341.00 69.67 63.39 69.79 60.00 below diversion North Main balow diversion 2165.00 60.00 71.10 64.57 71.31 0.000285 3.73 779.37 271.92 0.21 72766 60.00 71.95 65.**89** 72.31 0.000458 4.99 1037.53 336 07 0.27 North Main below diversion 72768 3291.00 helow diversion North Main 72766 7282.00 60.00 73.67 69.27 73.84 0.000361 4.89 7731.00 12555.76 0.24 1341.00 69.77 0.000198 69.52 0.17 North Main below diversion 72680 60.00 69.65 63.39 2.79 500.66 773.04 270.15 71.08 0.000288 3.74 0.21 North Main below diversion 72680 2165.00 60.00 64.57 71.29 North Main 3291.00 60.00 71.91 65.69 72.28 0.000466 5.02 1024.70 333.18 72680 below diversion 12477.33 0.25 North Main 72680 7282.00 60,00 73.62 69.27 73.81 0.000380 5.00 7538.90 elow diversion 71.83 North Mair 71500 1341 00 60.00 69.39 63 39 69.53 0.000212 2.99 496.94 0.18 3773.68 0.14 North Main below diversion 71500 2165.00 60.00 70.96 64.53 71.03 0.000132 2.64 3929.62 0.11 71.96 65.80 71.98 0.000079 2.17 7790.63 3953.59 North Main below diversion 71500 3291.00 60.00 73.**57** 2.44 14480.83 11609.15 0.12 60.00 73.55 69.24 0.000084 North Main 7282.00 below diversion 71500 1341.00 North Main elow diversion 70221 60.00 69.23 63.23 69.30 0.000134 2.35 1584.10 1238.84 0.14 2165.00 North Main below diversion 60.00 70 B7 84 34 70.90 0.000085 1 84 4787.81 3808.75 D.10 70221 North Main below diversion 70221 3291.00 60.00 71 88 65.58 71.89 0.000058 1.86 7099.04 3652.99 0.10 North Main noierevib woled 70221 7282.00 60.00 73.46 70.14 73.47 0.000067 2.17 15798.27 11662.34 0.11 492.59 0.15 North Main 70158 1341.00 60.00 69.20 62.99 69.29 0.000149 2.37 820.69 balow diversion 70.62 64.06 70.88 0.000113 2.33 3286.36 3792.89 0.13 North Main 2165.00 60.00 70158 below diversion below diversion 5806.11 3902.95 0.12 North Main 70158 3291.00 60.00 71.85 65.25 0.000090 2.23 73.45 Vorth Main 70158 7282.00 60.00 70.75 73.47 0.000075 2.22 14992.85 11783.64 0.11 elow diversion North Main below diversion 70144 Bridge 69.26 0.000152 2.38 804.65 481.58 0.15 1341.00 69.17 62.99 North Main 70130 60.00 below diversion 70.78 64.06 70.84 2.38 3183.32 3788.31 0.13 2165.00 60.00 0.000118 North Main noisnevib woled 70130 71.80 71.84 0.000094 2.27 5692.04 3898.05 0.12 North Main below diversion 70130 3291.00 60.00 65.25 73.45 73.43 69.64 0.000076 2.23 14884 80 11748.25 0.11 North Main 70130 7282.00 60.00 below diversion 0.15 69.17 0.000152 802.40 480.01 North Main below diversion 70044 1341.00 60.00 62.99 69.25 2.39 3788.32 0.14 2.40 3138.65 70.76 64.06 70.83 0.000121 North Main below diversion 70044 2165.00 60.00 71.78 71.82 0.000096 2.29 0.12 3291.00 60.00 65.25 North Main below diversion 70044 North Main 14851.82 11737.46 0.11 70044 60.00 73.42 69.64 2.24 7282.00 below diversion North Main elow diversion 70000 1341.00 60.00 69.16 62.89 69.25 0.000144 2.34 689.88 305.68 0.14 0.14 3507.83 70000 2.50 2658.16 North Main whow divers 2165.00 60.00 70.74 63.91 70.82 0.000130 4997.25 3840.13 0.13 2.47 0.000111 North Main below diversion 70000 3291.00 60.00 71.76 65.08 71.82 73.41 68.17 73.44 0.000081 2.32 14171.8 11621.77 0.12 60.00 North Main below diversion 70000 7282.00 60.00 69.03 62.72 69.11 0.000138 2 28 605.12 107.89 0.14 below diversion 59000 1341.00 North Main 2185.00 60.00 70.60 63.69 70.69 0.000137 2.58 2288.86 4384.84 0.15 North Main below diversion 69000 North Main RODOO 3291.00 60.00 71.64 64 80 71.70 0.000121 2.57 4544.98 4635,88 0.14 below diversion 12192.37 16771.53 0.10 North Main elow diversion 69000 7282.00 60.00 73.35 67.73 73.37 0.000058 1.97 2.98 463.84 71.05 0.19 68.78 68.92 0.000261 North Main below diversion 68000 1341.00 60.00 3.92 0.000358 869.72 1367.99 0.23 2165.00 60.00 70.24 70.47 North Main below diversion 68000 North Main 60.00 71.31 71 51 0.000332 4 08 2588.91 2011.B1 0.23 below diversion 68000 3291.00 7282.00 60.00 73.10 73.24 0.000324 4.49 7228.51 3208,33 0.23 North Main elow diversion 68000 2.96 463.78 72.97 0.19 68.40 60.00 68.54 0.000272 North Maio elow diversion 66518 1341.00 2138.68 0.18 0.000217 3.01 2354.89 69.93 70.04 North Main below diversion 66518 2165.00 60.00 60.00 71.11 71.17 0.000140 2.63 5510.74 3211.65 0,15 3291.00 North Main below diversion 66518 0.000124 2.76 12413.54 4499.71 0.14 60.00 72.91 72.94 North Main 66518 7282.00 elow diversion 462.17 72.88 0.20 66456 1341 00 60.00 68.38 63 19 68.52 0.000275 2.97 North Main elow diversion 2134.30 0.18 2165.00 2327.05 North Main helow diversion 88458 60.00 69.92 64.30 70.03 0.000220 3.03 71.17 5505.57 3210.54 0.15 0.000140 2.63 North Main below diversion 68456 3291.00 60.00 71.11 65.56 72.94 0.000124 2.76 12403.41 4498.09 0.14 72.90 70.26 North Main below diversion 68456 7282.00 60.00 Bridge North Main below diversion 66442

| River                    | Plan Pin F<br>Reach                | Filver Sta     | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S. | E.G. Elev                             | E.G. Slope  | Vel Chnl     | Flow Area          | Top Width          | Froude # Chi  |
|--------------------------|------------------------------------|----------------|--------------------|----------------|----------------|-----------|---------------------------------------|-------------|--------------|--------------------|--------------------|---------------|
|                          |                                    |                | (cle)              | (ft)           | (0)            | (ft)      | (ft)                                  | (f/fi)      | (fVs)        | (8q ft)            | (10)               | <b>学员装饰主题</b> |
| North Main               |                                    | 66428          | 1341.00            | 60.00          | 88.26          |           | 68.41                                 | 0.000290    | 3,02         | 453,79             | 72.40              | 0.20          |
| Vorth Main               | below diversion<br>below diversion | 66428          | 2165.00            | 60.00          | 69.83          |           | 69.95                                 | 0.000235    | 3,17         | 2134.50            | 2103.80            | 0.19          |
| Vorth Main               | below diversion                    | 66428          | 3291.00            | 60.00          | 71.05          |           | 71.11                                 | 0.000151    | 2.72         | 5299.59            | 3166.17            | 0.15          |
| Vorth Main               | below diversion                    | 66428          | 7282.00            | 60.00          | 72.88          |           | 72.90                                 | 0.000129    | 2.81         | 12201.80           | 4465.55            | 0.15          |
|                          |                                    |                |                    |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 68342          | 1341.00            | 60.00          | 68.24          |           | 68.38                                 | 0.000294    | 3.03         | 452.09             | 72.30              | 0.20          |
| North Main               | below diversion                    | 66342          | 2165.00            | 60,00          | 69.74          |           | 69.92                                 | 0.000312    | 3.55         | 1419.35            | 1353.39            | 0.21          |
| North Main               | below diversion                    | 66342          | 3291.00            | 60.00          | 70.95          |           | 71.07                                 | 0.000247    | 3.45         | 3611.24            | 2403.93            | 0.19          |
| North Main               | below diversion                    | 66342          | 7282.00            | 60.00          | 72.80          |           | 72.87                                 | 0.000212    | 3,59         | 9334.31            | 3783.47            | 0,19          |
| North Main               | below diversion                    | 66921.*        | 1341.00            | 60.00          | 68.10          |           | 68.25                                 | 0.000314    | 3.09         | 442.02             | 71.70              | 0.21          |
| North Main               | below diversion                    | 65921.         | 2165.00            | 60.00          | 69.58          |           | 69.78                                 |             | 3.74         | 1237.85            | 1295.42            | 0.23          |
| North Main               | below diversion                    | 65921.*        | 3291.00            | 60.00          | 70.83          |           | 70.96                                 | 0.000264    | 3.54         | 3350.86            | 2120.82            | 0,20          |
| North Main               | below diversion                    | 85921.*        | 7282.00            | 60.00          | 72.70          |           | 72.79                                 | 0.000234    | 3.75         | 8915.08            | 3827.88            | 0,20          |
| 1.数分录 (1)                |                                    | STEEL MARKET   |                    |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below divertion                    | 65500          | 1341.00            | 60.00          | 67.95          |           | 68,10                                 |             | 3.16         | 431.12             | 71.08              | 0.21          |
| North Main               | below diversion                    | 65500          | 2165.00            | 60.00          | 69.44          |           | 69.63                                 | 0.000357    | 3.71         | 1388.67            | 1650.08            | 0.23          |
| North Main               | below diversion                    | 65500          | 3291.00            | 60.00          | 70.76          |           | 70.85                                 |             | 3.15         | 4038.65            | 2333.15<br>3229.49 | 0.18          |
| North Main               | below diversion                    | 65500          | 7282.00            | 00.00          | 72.63          |           | 72.69                                 | 0.000192    | 3.30         | 9221.51            | 3229.49            | 0.10          |
| North Main               | below diversion                    | 65133,3*       | 1341.00            | 60.00          | 67.78          |           | 67,96                                 | 0.000437    | 3.44         | 395.37             | 69.01              | 0.24          |
| North Main               | below diversion                    | 65133.3°       | 2185.00            | 60.00          | 69.14          |           | 69.48                                 |             | 4.54         | 498.68             | 212.26             | 0.29          |
| North Main               | below diversion                    | 65133.3*       | 3291.00            | 60.00          | 70.48          |           | 70,72                                 | 0.000496    | 4.64         | 2052.67            | 1686.27            | 0.27          |
| North Main               | below diversion                    | 65133.3*       | 7282.00            | 60.00          | 72.43          |           | 72.59                                 | 0.000400    | 4.76         | 6482.90            | 2843.69            | 0.25          |
|                          |                                    |                |                    |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 64766.6*       | 1341.00            | 60.00          | 67.60          |           | 67.80                                 |             | 3.59         | 377.87             | 66.97              | 0.26          |
| North Main               | below diversion                    | 64768.6*       | 2165.00            | 60.00          | 68.89          | 05.64     | 69,24                                 |             | 4.77         | 467.95             | 73.34              | 0.3           |
| North Main<br>North Main | below diversion                    | 64768.6°       | 3291.00<br>7282.00 | 60.00          | 69.98<br>72.07 | 65.94     | 70.47<br>72.39                        | 0.000848    | 5.84<br>6.08 | 1144.17<br>4479.00 | 1254.52<br>2113.80 | 0,35          |
| MOTH MAIN                | DOWN DIVERSION                     | 04/00.0        | 7202.00            | 50.00          | 12.01          |           | 12.38                                 | 0.000550    | 0.00         | 4475.00            | 2113.00            |               |
| North Main               | below diversion                    | 64400          | 1341.00            | 60.00          | 67.43          | 63.25     | 67.63                                 | 0.000480    | 3.56         | 379.60             | 65.06              | 0.25          |
| North Main               | below diversion                    | B4400          | 2165.00            | 60.00          | 68.64          | 64.38     | 69.00                                 |             | 4.80         | 460.90             | 69.55              | 0.3           |
| North Main               | below diversion                    | 64400          | 3291.00            | 60,00          | 69.44          | 65.66     | 70.11                                 | 0.001129    | 6.58         | 517.96             | 329.04             | 0.40          |
| North Main               | below diversion                    | 54400          | 7282.00            | 60,00          | 71.41          | 68.92     | 72.04                                 | 0.001201    | 7.82         | 3071.41            | 1601.88            | 0.45          |
|                          |                                    |                |                    |                |                |           |                                       |             |              |                    |                    | ļ <u>.</u>    |
| North Main               | below diversion                    | 62879          | 1341.00            | 58.00          |                | 61.64     | 67.20                                 |             | 2.22         | 1567.74            | 2502.56            |               |
| North Main               | below diversion                    | 62879          | 2165.00            | 58.00          |                | 62.83     | 68.57                                 | 0.000110    | 2.06         | 3190.43            | 4198,26            |               |
| North Main               | below diversion                    | 62879          | 3291.00            | 58.00          |                | 64.14     | 69.54                                 |             | 2.24         | 4605.08<br>8057.86 | 5260.52<br>9432.77 | 0.10          |
| North Main               | below diversion                    | 62879          | 7282.00            | 58.00          | 71.32          | 67.69     | 71.37                                 | 0.000156    | 2.99         | 0037,86            | 9432.11            | 0.0           |
| North Main               | below diversion                    | 62817          | 1341.00            | 58.00          | 67.17          | 61.52     | 67.18                                 | 0.000051    | 1.35         | 3163.99            | 4237.78            | 0.0           |
| North Main               | below diversion                    | 62817          | 2165.00            | 58.00          |                | 62.68     | 68.56                                 |             | 1.36         | 5103.01            | 5622.85            |               |
| North Main               | below diversion                    | 62817          | 3291.00            | 58.00          |                | 64.94     | 69.52                                 |             | 1.58         | 6582.11            | 6528.88            |               |
| North Main               | below diversion                    | 62817          | 7282.00            | 58.00          | 71.32          | 66.52     | 71.35                                 | 0.000089    | 2.36         | 9630.96            | 10739.55           | 0.13          |
|                          |                                    |                |                    |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 82803          | Bridge             |                |                | ļ         |                                       |             |              |                    |                    | <u> </u>      |
|                          | 2000 See 4.36 1.46                 |                | 1244.22            |                |                | 64.50     | 07.47                                 | 0.000040    | 4.04         | 2007.00            | 4004 54            | <del> </del>  |
| North Main               | below diversion                    | 62789          | 1341.00<br>2165.00 | 58.00<br>58.00 |                | 61.52     | 67.17<br>68.54                        |             | 1.31         | 3307.36<br>5315.21 | 4221.54<br>5609.31 |               |
| North Main<br>North Main | below diversion                    | 62789<br>62789 | 3291.00            |                |                | 64.93     | 69.51                                 |             | 1.52         | 6840.81            | 6514.90            |               |
| North Main               | below diversion                    | 62789          | 7282.00            |                |                |           |                                       |             | 2.28         |                    | 10731.86           |               |
| 78.00                    |                                    |                |                    |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 62703          | 1341.00            | 58.00          | 67.15          | 61.52     | 67.18                                 | 0.000044    | 1.24         | 3530.07            | 4219.16            |               |
| North Main               | below diversion                    | 82703          | 2185.00            |                |                |           |                                       |             | 1.24         | 5631.93            |                    |               |
| North Main               | below diversion                    | 62703          | 3291.00            | 58.00          |                |           |                                       | <del></del> |              |                    |                    |               |
| North Main               | below diversion                    | 62703          | 7282.00            | 58.00          | 71.30          | 66.34     | 71.32                                 | 0.000075    | 2.17         | 10499.83           | 10730.62           | 0.1           |
| North 18-1               | Billian all                        | 00000          | 4044.00            | 58.00          | 67.15          | 61.51     | 67.15                                 | 0.000018    | 0.80         | 5947.54            | 3346.64            | 0.0           |
| North Main<br>North Main | below diversion                    | 62600<br>62600 | 1341.00<br>2165.00 |                |                | *****     |                                       | -           |              |                    |                    |               |
| North Main               | below diversion                    | 62600          | 3291.00            |                | 1              |           |                                       |             |              |                    | <del></del>        |               |
| North Main               | below diversion                    | 62800          | 7282.00            |                |                |           | 71.30                                 | <del></del> |              |                    | +                  |               |
| - W. 1 mm 3              | AT S                               |                |                    |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 81620          | 1341.00            | 58.00          |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 61620          | 2165.00            |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 61620          | 3291.00            |                |                |           |                                       | +           |              |                    |                    |               |
| North Main               | below diversion                    | 61620          | 7282.00            | 58.00          | 71.28          | 64.98     | 71.28                                 | 0.000023    | 1.25         | 20292.66           | 13181.37           | 0.0           |
| North Marin              | halow dhan-in-                     | 81504          | 1941.00            | 58.00          | 67,06          | 61.38     | 67.12                                 | 0.000133    | 2.18         | 1924.92            | 9192.06            | 0.1           |
| North Main               | below diversion                    | 81584<br>81584 | 1341.00<br>2165.00 |                |                |           |                                       |             |              | ·                  |                    |               |
| North Main               | below diversion                    | 61584          | 3291.00            |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 61584          | 7282.00            |                |                |           |                                       | ·           |              |                    | +                  |               |
| \$                       |                                    | 1.50           |                    |                | I.             |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 81570          | Bridge             |                |                | -         |                                       |             |              |                    |                    |               |
|                          |                                    |                |                    |                |                |           |                                       |             |              |                    |                    | ļ             |
| North Main               | below diversion                    | 61556          | 1341.00            |                |                |           |                                       |             | 2.23         |                    |                    |               |
| North Main               | below diversion                    | 61556          | 2165.00            |                |                |           | · · · · · · · · · · · · · · · · · · · |             | 1.73         |                    | 11505.55           | _             |
| North Main               | below diversion                    | 61558          | 3291.00            |                |                |           |                                       |             | 1.54         |                    |                    |               |
| North Main               | below diversion                    | 61556          | 7282.00            | 58.00          | 71.26          | 67.61     | 71.27                                 | 0.000049    | 1.76         | 16168.05           | 13176.49           | 0.0           |
| Nineth 2845              | holow Ware                         | 81449          | 1941.00            | 58.00          | 67.03          | 61.37     | 67.04                                 | 0.000021    | 0.92         | 6013.82            | 8412.31            | 0.0           |
| North Main               | below diversion                    | 61443          | 1341.00            |                |                |           |                                       |             |              |                    |                    |               |
| North Main               | below diversion                    | 61443<br>61443 | 3291.00            |                |                |           |                                       |             |              |                    |                    |               |

HEC DAS Plan: P 10 D 2 (Continued)

| River                    | Reach  | River Sta                                | Q Total | Min Ch El      | W.S. Elev     | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chril   | Flow Area   | Top Width           | Froude # Chi |
|--------------------------|--|--|---------|----------------|---------------|----------------|----------------|------------|-------------|-------------|---------------------|--------------|
| Marsh Mala               | 6.24.53.40   |  | (cfs)   | (ft)           | (ft)          | (ft)           | (ft)           | (ft/ft)    | (ft/a)      | (sq ft)     | (ft)                |              |
| North Main               | below diversion  | 81443                                    | 7282.00 | 58.00          | 71.25         | 65.91          | 71.28          | 0.000023   | 1.25        | 22662.34    | 13175.68            | 0.00         |
| Albanda Adalas           | 1.1.4  | -  | <b></b> | <del></del>    |               |                |                |            |             |             |                     |              |
| North Main<br>North Main | below diversion  | 60700                                    | 1341.00 | 58.10          | 67.02         | 61.47          | 67.03          |            | 0.70        | 9383,48     | 9537.67             | 0.04         |
| North Main               | below diversion  | 60700                                    | 2165.00 | 58.10          | 68.44         | 62.57          | 68.44          |            | 0.58        | 17164.59    | 11151.84            | 0.03         |
| North Main               | below diversion  | 60700                                    | 3291.00 | 58,10          | 69.43         | 64.72          | 69.43          |            | 0.60        | 23848.09    | 12288.00            | 0.00         |
| INCIUI MAIII             | below diversion  | 60700                                    | 7282.00 | 58.10          | 71.24         | 65.82          | 71.24          | 0.000009   | 0.78        | 36770.16    | 13173.08            | 0.04         |
| North Main               | - Latencias  | -  |         |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 58982                                    | 1341.00 | 58.00          | 66.91         | 61.36          | 66.98          | 0.000154   | 2.32        | 1848.37     | 6432.10             | 0.15         |
| North Main               | below diversion  | 58982                                    | 2165.00 | 58.00          | 68.40         | 62.49          | 68.41          | 0.000051   | 1.51        | 7777.20     | 9959.31             | 0.09         |
| North Main               | below diversion  | 58982                                    | 3291.00 | 58.00          | 69.40         | 63.78          | 69.41          | 0.000031   | 1.24        | 13851.12    | 10924.65            | 0.0          |
| MOINT MAIN               | below diversion  | 58982                                    | 7282.00 | 58.00          | 71.22         | 67.64          | 71.22          | 0.000024   | 1.24        | 26362.19    | 11744.00            | 0.06         |
| North Main               | below diversion  | Fonce                                    |         |                |               |                |                |            |             |             |                     |              |
| North Main               |  | 58909                                    | 1341.00 | 58.00          | 66.80         | 61,42          | 68.94          | 0.000280   | 3.07        | 461.09      | 3824.01             | 0.20         |
| North Main               | below diversion  | 58909                                    | 2165.00 | 58.00          | 68.30         | 62.62          | 68.39          | 0.000187   | 2.84        | 3108.22     | 6892.61             | 0.17         |
| North Main               | below diversion  | 58909                                    | 3291.00 | 58.00          | 69.36         | 63.93          | 69.40          | 0.000112   | 2.36        | 7214.75     | 8605.07             | 0.13         |
| I TO I REPORT            | below diversion  | 58909                                    | 7282.00 | 58.00          | 71.21         | 68.57          | 71.22          | 0.000086   | 2.04        | 17255.26    | 10269.24            | 0.10         |
| North Main               | below diversion  | 58867                                    | B-11-   |                |               |                |                |            |             |             |                     |              |
| I WOUTH PROPERTY.        | name olderators  | 38867                                    | Bridge  |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | £200E                                    |         |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 58865<br>58865                           | 1341.00 | 58.00          | 66.65         | 61.42          | 68.80          | 0.000299   | 3.14        | 441.28      | 3688.24             | 0.20         |
| North Main               |  |  | 2165.00 | 58.00          | 88.20         | 62.62          | 68.30          | 0.000213   | 3.00        | 2800.57     | 6711.95             | 0.18         |
| North Main               | below diversion  | 58885<br>58865                           | 3291.00 | 58.00          | 69.31         | 63.93          | 69.35          | 0.000119   | 2.43        | 6990.28     | 8544.51             | 0.14         |
|                          | TOWN MITOSTAL  |  | 7282.00 | 58.00          | 71.18         | 68.57          | 71.20          | 0.000068   | 2.06        | 17095.11    | 10265.32            | 0.11         |
| North Main               | below diversion  | 58787                                    | 1341.00 | 50.00          |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 58787                                    | 2165.00 | 58.00<br>58.00 | 66.63         | 61.42          | 68.77          | 0.000284   | 3.05        | 651.74      | 3673.20             | 0.20         |
| North Main               | below diversion  | 58787                                    | 3291.00 | 58.00          | 68.21         | 62.62          | 68.26          | 0.000143   | 2.46        | 3989.20     | 6897.70             | 0.15         |
| North Main               | below diversion  | 58787                                    | 7282.00 |                | 69.31         | 63.93          | 69.33          | 0.000077   | 1.96        | 9076.36     | 8950.86             | 0.11         |
|                          |  | 1  | 1202.00 | 58.00          | 71.17         | 68.19          | 71.18          | 0.000045   | 1.87        | 20494.68    | 10195.75            | 0.09         |
| North Main               | below diversion  | 57900                                    | 1341.00 | 58.00          | 66.61         |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 57900                                    | 2165.00 | 58.00          |               | 61.26          | 68.63          | 0.000069   | 1.52        | 3235.00     | 3491.67             | 0.10         |
| North Main               | below diversion  | 57900                                    | 3291.00 | 58.00          | 68.18         | 62.39          | 68.19          | 0.000034   | 1.20        | 7044.82     | 5455.61             | 0.07         |
| North Main               | below diversion  | 57900                                    | 7282.00 | 58.00          | 69.28         | 63.87          | 69.29          | 0.000027   | 1.17        | 11828.76    | 7563.72             | 0.07         |
|                          | Service of the servic | 1  | 7202.50 | 30.00          | 71.15         | 66.48          | 71.15          | 0.000035   | 1.48        | 23241.08    | 10151.72            | 0.08         |
| North Mein               | below diversion  | 55821                                    | 1341.00 | 58.00          | 66.47         | 81 28          | 85.45          |            |             |             |                     |              |
| North Main               | below diversion *  | 55821                                    | 2165.00 | 58.00          | 68.13         | 61.38<br>62.50 | 66.49          | 0.000088   | 1.57        | 4015.40     | 4022.47             | 0.10         |
| North Main               | below diversion  | 55821                                    | 3291.00 | 58.00          | 69.26         | 63.75          | 68.14          | 0.000019   | 0.95        | 12357.97    | 9214.75             | 0.05         |
| North Main               | below diversion  | 55821                                    | 7282.00 | 58.00          | 71.12         |                | 69.26          | 0.000011   | 0.78        | 20061.24    | 9688.45             | 0.04         |
|                          | 17.3   |  | 1202.00 | 00.00          | 71.12         | 66.42          | 71.12          | 0.000012   | 0.90        | 32862,38    | 10167.79            | 0.05         |
| North Main               | below diversion  | 55758                                    | 1341.00 | 58.00          | 68.47         | 61.31          | 60.40          |            |             |             |                     |              |
| North Main               | below diversion  | 55758                                    | 2165.00 | 58.00          | 68.12         | 62.43          | 66.48<br>68.13 | 0.000062   | 1.50        | 4415.84     | 4632.45             | 0.09         |
| North Main               | below diversion  | 55758                                    | 3291.00 | 58.00          | 69.25         | 63.67          | 89.26          | 0.000014   | 0.81        | 13635.49    | 9192.32             | 0.05         |
| North Main               | below diversion  | 55750                                    | 7282.00 | 58.00          | 71.11         | 66.44          | 71.11          | 0.000009   | 0.70        | 21334.49    | 9629.40             | 0.04         |
| 7. P. P.                 | 1000   | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |         |                | <del></del>   | - 55.44        |                | 0.000011   | 0.85        | 34009.85    | 10105.07            | 0.04         |
| North Main               | below diversion  | 55744                                    | Bridge  |                | $\overline{}$ |                |                |            | <del></del> | <del></del> |                     |              |
|                          |  |  |         |                |               |                |                |            | <del></del> |             |                     |              |
| North Main               | below diversion  | 55730                                    | 1341.00 | 58.00          | 66.41         | 61.31          | 66.45          | 0.000114   | 2.03        | 2358.06     | 2000 44             |              |
| North Main               | balow diversion  | 55730                                    | 2165.00 | 58.00          | 68.10         | 62.43          | 68,11          | 0.000037   | 1.32        | 8170.62     | 3292.14             | 0.13         |
| North Main               | below diversion  | 55730                                    | 3291.00 | 58.00          | 69.24         | 63.67          | 69.25          | 0.000037   | 1.11        | 14725.74    | 8288.37             | 0.08         |
| North Main               | noterevib woled  | 58730                                    | 7282.00 | 58.00          | 71.09         | 66.68          | 71.10          | 0.000023   | 1.21        | 27129.47    | 9627.20<br>10701.85 | 0.06         |
|                          |  | 1 m                                      |         |                | _             |                |                | 0.000322   |             | 2/125.4/    | 10/01.85            | 0.06         |
| North Main               | below diversion  | 55644                                    | 1341.00 | 58.00          | 66.41         | 61.31          | 66.43          | 0.000087   | 1.76        | 3059.85     | 2019.05             | 0.14         |
| North Main               | below diversion  | 55844                                    | 2165.00 | 58.00          | 68.09         | 62.43          | 68.10          | 0.000026   | 1.11        | 9686.75     | 2818.05<br>7718.86  | 0.11         |
| North Main               | below diversion  | 55644                                    | 3291.00 | 58.00          | 69.24         | 63.67          | 69.24          | 0.000017   | 0.96        | 18816.43    |                     | 0.06         |
| North Main               | below diversion  | 55844                                    | 7282.00 | 58.00          | 71.09         | 66.49          | 71.09          | 0.000017   | 1.08        | 30129.42    | 9001.87             | 0.05         |
|                          | 100000000000000000000000000000000000000  | 名[8] 5                                   |         |                |               |                |                | 5.555517   | 1.00        | 30120.42    | 10072.30            | 0.05         |
| North Main               | below diversion  | 54900                                    | 1341.00 | 58.00          | 66.37         | 61.08          | 66.38          | 0.000053   | 1.39        | 4708.24     | 4086.53             | 0.09         |
| North Main               | below diversion  | 54900                                    | 2165.00 | 58.00          | 68.08         | 62.13          | 68.08          | 0.000013   | 0.78        | 13208.60    | 5916.98             | 0.04         |
| North Main               | below diversion  | 54900                                    | 3291.00 | 58.00          | 69,22         | 63,30          | 69.23          | 0.000010   | 0.73        | 19952.21    | 7063.79             | 0.04         |
| North Main               | below diversion  | 54900                                    | 7282.00 | 58.00          | 71.07         | 66.27          | 71.07          | 0.000012   | 0.91        | 31208.34    | 8038.26             | 0.05         |
|                          |  |  |         |                |               |                |                |            |             |             |                     | 5.50         |
| North Main               | below diversion  | 53165                                    | 1341.00 | 58.00          | 66.26         | 61.15          | 66.28          | 0.000087   | 1.45        | 3356.25     | 2002.22             | 0.10         |
| North Main               | below diversion  | 53185                                    | 2165.00 | 58.00          | 68.04         | 62.22          | 68.05          | 0.000028   | 1.09        | 7877.39     | 3067.97             | 0.06         |
| North Mein               | below diversion  | 53185                                    | 3291.00 | 58.00          | 69.20         | 64.46          | 69.21          | 0.000026   | 1.13        | 11888.91    | 3871.11             | 0.06         |
| North Main               | below diversion  | 53165                                    | 7282.00 | 58.00          | 71.03         | 65.78          | 71.04          | 0.000033   | 1.43        | 19870.27    | 6477.42             | 0.07         |
|                          |  |  |         |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 53128                                    | 1341.00 | 58.00          | 68,19         | 61.05          | 66.26          | 0.000155   | 2.33        | 1547.79     | 1264.08             | 0.15         |
| North Main               |  | 53128                                    | 2165.00 | 58.00          | 68.03         | 62.09          | 68.04          | 0.000059   | 1.67        | 5584.12     | 3157.95             | 0.10         |
| North Main               |  | 53128                                    | 3291.00 | 58.00          | 69.19         | 63,21          | 69.20          | 0.000043   | 1.54        | 9758.33     | 3997.76             | 0.08         |
| Vorth Main               | below diversion  | 53128                                    | 7282.00 | 58.00          | 71.03         | 66.93          | 71.04          | 0.000046   | 1.77        | 18024.91    | 6612.74             | 0.09         |
| 1                        |  | -  |         |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 53114                                    | Bridge  | I              |               |                |                |            |             |             |                     |              |
|                          | <del>   </del>   |  |         |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 53100                                    | 1341.00 | 58.00          | 66.15         | 61.05          | 66.22          | 0.000162   | 2.37        | 1509.87     | 1307.16             | 0.15         |
| Vorth Main               | below diversion  | 53100                                    | 2165.00 | 58.00          | 68.01         | 62.09          | 68.02          | 0.000055   | 1.81        | 6291.57     | 3877.38             | 0.09         |
| North Main               | below diversion  | 53100                                    | 3291.00 | 58.00          | 69.17         | 63.21          | 69.18          | 0.000036   | 1.40        | 11256.53    | 4658.84             | 0.08         |
| lorth Main               | below diversion  | 53100                                    | 7282.00 | 58.00          | 71.01         | 66.93          | 71.02          | 0.000037   | 1.58        | 20843.73    | 8105.44             | 0.08         |
|                          |  |  |         |                |               |                |                |            |             |             |                     |              |
| North Main               | below diversion  | 52987                                    | 1341.00 | 58.00          | 66.13         | 61.05          | 68.20          | 0.000165   | 2.39        | 1484.92     | 1280.68             | 0.15         |
| North Main               | below diversion  | 52987                                    | 2165.00 | 58.00          | 67.99         | 62.09          | 68.01          | 0.000055   | 1.81        | 6252.44     | 3839.96             | 0.09         |
| North Main               | below diversion  | 52987                                    | 3291.00 | 58.00          | 69.15         | 53,21          | 69,18          | 0.000037   | 1.41        | 11192.93    | 4649.66             | 0.08         |
| North Main               | below diversion  | 52967                                    | 7282.00 | 58.00          | 71.00         | 58.93          | 71.01          | 0.000037   | 1.58        | 20802.63    | 8101.77             | 0.08         |
|                          |  | 1.17.199                                 |         |                |               |                | T              |            |             |             |                     |              |

| River                    | Plan: P.10 D<br>Reach  | River Sta      | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chni | Flow Area          | Top Width          | Froude # Chl  |
|--------------------------|--|----------------|--------------------|----------------|----------------|----------------|----------------|------------|----------|--------------------|--------------------|---------------|
|                          |  |                | (cfs)              | (ft)           | (ft)           | (ft)           | (ft)           | (ft/H)     | (ft/s)   | (8q ft)            | (ft)               | 0.16          |
| rth Main                 | below diversion  | 62500          | 1341.00            | 58.00          | 66.05          | 61.01          | 66.12          | 0.000169   | 2.41     | 1646.98<br>7445.60 | 2086.68<br>3957.46 | 0.10          |
| rih Main                 | below diversion  | 52500          | 2165.00            | 58.00          | 67.98          | 62.06          | 67.99<br>69.15 | 0.000042   | 1,40     | 12495.47           | 4698.43            | 0.0           |
| orth Main                | below diversion  | 52500          | 3291,00            | 58.00<br>58.00 | 69.14<br>70.99 | 63.19<br>66.81 | 70.99          | 0.000030   | 1.43     | 22141.12           | 7573.35            | 0.07          |
| orth Main                | below diversion  | 52500          | 7282.00            | 58.00          | 70.99          | 66.81          | 70.99          | 0.000030   | 1.43     | 22141.12           | 7373.33            | 0.07          |
|                          |  | 50599          | 1341.00            | 56.00          | 65.65          | 59.55          | 85.77          | 0.000207   | 2.83     | 497.56             | 72.34              | 0,17          |
| orth Main                | below diversion  | 50599          | 2165.00            | 56.00          | 67.61          | 60.75          | 67.81          | 0.000260   | 3.65     | 671.08             | 231.58             | 0.20          |
| orth Main                | below diversion  | 50599          | 3291,00            | 56.00          | 88.71          | 62.06          | 68.99          | 0.000353   | 4.56     | 1878.09            | 2622.46            | 0.24          |
| orth Main                | below diversion<br>below diversion   | 50599          | 7282.00            | 56.00          | 70.81          | 65.42          | 70.88          | 0.000163   | 3.47     | 11449.61           | 7856.71            | 0.17          |
| orth Main                | DOOK GIVENOON  | 30300          | 7202.00            | 0.00           |                |                |                |            |          |                    |                    |               |
| orth Main                | below diversion  | 50550          | 1341.00            | 56.00          | 65.65          | 59.34          | 65.75          | 0.000193   | 2.59     | 521.93             | 73.41              | 0.16          |
| orth Main                | below diversion  | 50550          | 2165.00            | 56.00          | 67.63          | 60.51          | 67.80          | 0.000222   | 3.24     | 1004.30            | 1116.54            | 0.18          |
| orth Main                | below diversion  | 50550          | 3291.00            | 56.00          | 68.83          | 61.78          | 68.95          | 0.000189   | 3.23     | 4134.14            | 3797.87            | 0.1           |
| orth Main                | below diversion  | 50550          | 7282.00            | 56.00          | 70.83          | 65.11          | 70.86          | 0.000096   | 2.58     | 13396.14           | 8628.24            | 0.13          |
| 78.                      |  | 13770 %        |                    |                |                |                |                |            |          |                    |                    |               |
| orth Main                | below diversion  | 50636          | Bridge             |                |                |                |                |            |          |                    |                    |               |
| No y de la               | 0.022.54   | 380.3          |                    |                |                |                |                |            | <u> </u> |                    |                    |               |
| lorth Main               | below diversion  | 50522          | 1341.00            | 56.00          | 65.62          | 59.34          | 65.72          | 0.000196   | 2.60     | 519.84             | 73.29              | 0.1           |
| orth Main                | below diversion  | 60522          | 2165.00            |                | 67.83          | 60.51          | 67.79          | 0.000223   | 3.24     | 999.34             | 1109.26            | 0.11          |
| orth Main                | below diversion  | 50522          | 3291.00            | 56.00          | 68.70          | 61.78          | 68.84          | 0.000219   | 3.45     |                    | 3664,81            | 0.1           |
| orth Main                | below diversion  | 50522          | 7282.00            | 56.00          | 70.79          | 65.11          | 70.82          | 0.000100   | 2.62     | 13209.21           | 8615.96            | 0.1           |
|                          | 100000000  | 1222           |                    |                |                |                |                |            |          |                    | 70.00              |               |
| orth Main                | below diversion  | 50423          | 1341.00            |                | 65.60          | 59.34          | 65.71          | 0.000197   | 2.61     | 518.65             | 73.23              | 0.1           |
| lorth Main               | noissevib woled  | 50423          | 2165.00            |                | 67.61          | 60.51          | 67.77          | 0.000225   | 3.26     |                    | 1078.02            |               |
| orth Main                | below diversion  | 50423          | 3291.00            |                |                | 61.78          | 68.82          | 0.000225   | 3.49     |                    | 3639.75<br>8613.27 | 0.1           |
| orth Main                | below diversion  | 50423          | 7282.00            | 56.00          | 70.78          | 65,11          | 70.82          | 0.000101   | 2.63     | 13168.26           | 8613.27            | 0.7           |
|                          |  | M. S.W. 1      | ļ                  |                | AF             | FD 00          |                | 0.000213   | 2.64     | 512.49             | 75.57              | 0.1           |
| orth Main                | below diversion  | 49400          | 1341.00            |                |                | 59.36          | 65.48<br>67.53 |            | 3.13     |                    |                    |               |
| orth Main                | below diversion  | 49400          | 2165.00            |                |                |                | 68.63          |            |          |                    | 4775.33            |               |
| orth Main                | below diversion  | 49400          | 3291.00<br>7282.00 |                |                |                | 70.74          |            |          |                    |                    |               |
| orth Main                | below diversion  | 49400          | 7282.00            | 56.00          | 70.72          | 65.06          | 70.74          | 0.000      | 1.33     | 100,10.10          | 0250,50            |               |
|                          |  | 40100          | 1244.00            | 56.00          | 65.12          | 59.52          | 65.25          | 0.000244   | 2.94     | 476.21             | 73.56              | 0.1           |
| iorth Main               | below diversion  | 48450          | 1341.00<br>2165.00 | +              |                |                | 67.40          | -          |          |                    | 5102.39            |               |
| orth Main                | below diversion  | 48450<br>48450 | 3291.00            | <del></del>    |                |                |                |            |          |                    |                    |               |
| lorth Main               | below diversion  | 48450          | 7282.00            |                |                |                |                |            |          |                    | 9544.34            |               |
| lorth Main               | below diversion  | 40400          | 7202.00            | 30.00          |                | -              |                |            |          |                    |                    |               |
| but Main                 | reach 1  | 233824         | 2975.00            | 53.37          | 64.93          | 57.51          | 65.09          | 0.000317   | 3.15     | 945.71             | 106.09             | 0.1           |
| Iorth Main               | reach 1  | 233824         | 4860.00            |                |                | ·              | <del></del>    |            | 3.49     | 2290.74            | 1506.24            | D.1           |
| Vorth Main               | reach 1  | 233824         | 6593.00            | <del></del>    | <del>+</del>   | 60.15          |                |            | 3.23     | 4720.18            | 2123.8             | 0.1           |
| vorth Main               | reach 1  | 233824         | 11576.00           |                |                |                |                |            |          | 9994.49            | 2599.99            | 0.1           |
| ADURI MARII              | 1900111  | 233024         | 1.070.0            |                |                |                | 1              |            |          |                    |                    |               |
| Vorth Main               | reach 1  | 232833         | 2975.0             | 53.37          | 64.67          | 57.14          | 64.79          | 0.000256   | 2.86     | 1040.05            | 115.9              | B 0.1         |
| forth Main               | reach 1  | 232833         | 4660.00            |                |                | 58.39          | 67.0           | 0.000226   | 8 2.97   | 3154.73            | 2152.2             | 0.1           |
| forth Main               | reach 1  | 232833         | 6593.0             |                |                | 59.60          | 68.3           | 0.00014    | 1 2.49   | 6494.90            | 2621.1             | 0.1           |
| Yorth Main               | reach 1  | 232833         | 11576.0            |                | +              | 62.15          | 70.5           | 0.00008    | 6 2.13   | 12911.16           | 3045.5             | 2 0.1         |
| TOTAL MILLION            | 33.4   |                |                    |                |                |                |                |            |          |                    |                    |               |
| Vorth Main               | reach 1  | 232775         | 2975.0             | 53.37          | 64.6           | 5 57.14        | 64.7           | 0.00025    | 9 2.87   | 7 1038.25          |                    |               |
| Vorth Main               | reach 1  | 232775         | 4660.0             | 53.37          | 66.89          | 58.3           | 67.0           | 0.00022    | 9 2.99   | 9 3112.24          |                    |               |
| North Main               | reach 1  | 232775         | 6593.0             | 0 53.3         | 68.2           | 5 59.60        | 68.3           | 0.00014    | 3 2.50   |                    |                    |               |
| North Main               | reach 1  | 232775         | 11576.0            | 0 53.37        | 7 70.5         | 2 62.1         | 70.5           | 0.00008    | 6 2.13   | 12875.73           | 3043.5             | 0.1           |
| (A) (B) (B)              |  | i de ta fa     |                    |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 232000.        | 2975.0             | 0 53.3         | 7 64.4         | 7 57.0         |                |            |          |                    |                    |               |
| Vorth Main               | reach 1  | 232000.        | 4660.0             | 53.3           |                |                |                |            |          |                    |                    |               |
| Vorth Main               | řeach 1  | 232000.        | 6593.0             |                |                |                |                |            |          |                    |                    |               |
| Vorth Main               | reach 1  | 232000.        | 11576.0            | 0 53.3         | 7 70.4         | 61.9           | 70.5           | 0.00002    | 7 1.0    | 9 22784.0          | 7 4357.2           | 8 0.          |
|                          |  | a Sandari      |                    |                | ·              | <u> </u>       |                | ļ          | -        |                    | 400.0              | <del></del>   |
| North Main               | reach 1  | 230198         | 2975.0             |                |                |                |                |            |          |                    |                    |               |
| Vorth Main               | reach 1  | 230198         | 4660.0             |                |                |                |                |            |          |                    | +                  |               |
| Vorth Main               | reach 1  | 230198         | 6593.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 230198         | 11576.0            | 0 52.6         | 0 70.4         | 60.9           | 7 70.4         | 7 0.00001  | 7 0.9    | 30081.4            | 3300.0             | ~ <del></del> |
| 100                      |  | 1 2 2 2 2 2    | 4                  | +              |                |                | 5 64.1         | 5 0.00021  | 7 2.6    | 7 1112.7           | 6 120.1            | 2 0.          |
| North Main               | reach 1  | 230130         | 2975.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 230130         | 4660.0             |                |                |                |                |            |          |                    |                    | +             |
| North Main               | reach 1  | 230130         | 6593.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 230130         | 11576.0            | 52.6           | 0 70.4         | 60.9           | 70.4           | 0.00001    | ·        | 3,000,7            | 3330.0             | ·             |
| 250022                   |  | manan          | 5075               | 0 600          | 64.0           | 56.2           | 4 64.1         | 2 0.00023  | 16 2.7   | 7 1072.2           | 3 116.7            | 2 0.          |
| North Main               | reach 1  | 230000.        | 2975.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 230000.        | 4660.0             |                |                |                |                |            |          |                    |                    |               |
| Vorth Main               | reach 1  | 230000         | 6593.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 230000.        | 115/6.0            | 52.0           | 13.4           | 1              | 1              | 2.2230     | 1        |                    |                    |               |
| Marth 14                 | - Innetial   | 222410         | 2975.0             | 52.6           | 63.7           | 5 55.9         | 8 63.6         | 0.00020    | 2.5      | 68 1153.3          | 126.3              | 88 0          |
| North Main               | reach 1  | 228819         | 4660.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 228619         | 6593.0             |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 228619         | 11576.0            |                |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 228819         | 115/8.0            | 52.0           | 70.4           |                |                |            | 1        |                    |                    |               |
| Morth 12                 | mach t   | 227602         | 2975.0             | 52.6           | 63.3           | 39 56.4        | 11 63.5        | 0.0003     | 23 3.1   | 951.3              | 109.               | 53 0          |
| North Main               | reach 1  | 227602         | 4660.0             | _+             |                |                |                |            |          |                    |                    |               |
| North Main               | reach 1  | 227602         | 6593.0             |                |                |                |                |            |          |                    |                    |               |
| North Main<br>North Main | reach 1  | 227802         | 11576.0            |                |                |                |                |            |          |                    | 23 6272            | 52 0          |
| IIIAMATATA               | II DESCRIPTION OF THE PROPERTY |                |                    | 32.0           |                |                |                | 1          |          |                    |                    | 1             |
|                          | A 100 Per 9 4  | 100 0.00 0.00  |                    |                |                | ,              |                |            | _L.      |                    |                    |               |

HEC DAS Plan: P 10 D 2 (Continued)

| HEC_DAS_                   | Plon: P 10 C        | Pilver Sta       | (Dued)              | Min Chi El     | W.S. Elev                       | Crit W.S.      | FO:G-          | 1 50 m               | V. (-)             |                    |                    |              |
|----------------------------|---------------------|------------------|---------------------|----------------|---------------------------------|----------------|----------------|----------------------|--------------------|--------------------|--------------------|--------------|
| 5,54.59                    | Cara Cara           | 7114104          | (cfs)               | (ft)           | (it)                            | (ft)           | E.G. Elev      | E,G, Slope<br>(fVft) | Vel Chnl<br>(fl/s) | Flow Area          | Top Width          | Froude # Chi |
| North Main                 | reach f             | 228000           | 4660.00             | 52.41          | 65.33                           | 57.35          | 65.56          |                      | 3.82               | (sq ft)<br>1218.84 | (ft)<br>119.51     | 0.21         |
| North Main                 | reach 1             | 226000.          | 6593.00             | 52.41          | 57.13                           | 58.58          | 67.45          |                      | 4.58               | 1439.68            | 133.51             | 0.24         |
| North Main                 | reach 1             | 226090.          | 11578.00            | 52.41          | 70.03                           | 61.15          | 70.22          |                      | 4.22               | 5704.42            | 2139.66            | 0.22         |
|                            |                     |                  |                     |                |                                 |                |                |                      |                    |                    |                    |              |
| North Main                 | reach 1             | 224978           | 2975.00             | 52.41          | 62.55                           | 55.81          | 62.68          | <del></del>          | 2.91               | 1022.19            | 122.08             | 0.18         |
| North Main<br>North Main   | reach 1             | 224978           | 4660.00             | 52.41          | 64,99                           | 58.94          | 65,18          | <del></del>          | 3.50               | 1332.98            | 132,32             | 0.19         |
| North Main                 | reach 1             | 224978<br>224978 | 6593.00             | 52.41          | 66.71                           | 58.06          | 66.98          |                      | 4.19               | 1825.88            | 240.14             | 0.22         |
| - Witter William           | rour r              | 224910           | 11576.00            | 52.41          | 69.32                           | 60.47          | 69.70          | 0.000550             | 5.29               | 3470,97            | 1388.67            | 0.26         |
| North Main                 | reach 1             | 224934           | 2975.00             | 52.41          | 62.53                           | 55.01          | 62.67          | 0.000292             |                    |                    |                    |              |
| North Main                 | reach 1             | 224934           | 4680.00             | 52.41          | 64.97                           | 56.94          | 85.17          | 0.000292             | 2.92<br>3.50       | 1020.49            | 122.02             | 0.18         |
| North Main                 | reach 1             | 224934           | 6593.00             | 52.41          | 66.89                           | 58.06          | 68.96          |                      | 4.20               | 1330,84            | 132.26             | 0.19         |
| North Main                 | reach 1             | 224934           | 11578.00            | 52.41          | 69.28                           | 60.47          | 69.68          |                      | 5.32               | 3428.22            | 237.41<br>1355,47  | 0.22<br>0.26 |
|                            |                     |                  |                     |                |                                 |                |                |                      |                    | 0-120.12           | 1333,41            | 0.28         |
| North Main                 | reach 1             | 223155           | 2975.00             | 52.35          | 61.88                           | 55.92          | 62.05          | 0.000408             | 3.29               | 903.15             | 115.90             | 0.21         |
| North Main                 | reach 1             | 223155           | 4660.00             | 52.35          | 64.18                           | 57.10          | 64.40          |                      | 3.82               | 1316.72            | 332.66             | 0.24         |
| North Main                 | reach 1             | 223155           | 6593.00             | 52.35          | 65.85                           | 58.25          | 66.10          |                      | 4.11               | 1980.41            | 459.03             | 0.25         |
| North Main                 | reach 1             | 223155           | 11576.00            | 52.35          | 68.22                           | 60.71          | 68.52          | 0.000705             | 4.84               | 3288.00            | 692.30             | 0.28         |
| North Main                 | reach 1             | 222000.          | 2975.00             | 50.00          | 24.02                           |                | <del></del>    | ļ                    |                    |                    |                    |              |
| North Main                 | reach 1             | 222000.          | 4660.00             | 52.03<br>52.03 | 61.37<br>63.53                  | 55.67          | 61.55          |                      | 3.44               | 863.90             | 112.37             | 0.22         |
| North Main                 | reach 1             | 222000.          | 6593.00             | 52.03          | 65.25                           | 56.85<br>58.02 | 63.78<br>65.43 |                      | 4.07               | 1339.83            | 519.86             | 0.24         |
| North Main                 | reach t             | 222000           | 11576.00            | 52.03          | 67.78                           | 60.51          | 67.90          |                      | 3.79               | 2724.98            | 1019.70            | 0.25         |
|                            |                     |                  |                     |                |                                 | 50.31          |                | 0.00072              | 3.48               | 5800.03            | 1391,31            | 0.20         |
| North Main                 | reach 1             | 220735           | 2975.00             | 51,94          | 60.69                           | 55.55          | 60.90          | 0.000579             | 3.72               | 798.79             | 110.98             | 0.24         |
| North Main                 | reach 1             | 220795           | 4660.00             | 51.94          | 62.72                           | 56.76          | 63.04          |                      | 4.51               | 1034.13            | 120.18             | 0.27         |
| North Main                 | reach t             | 220735           | 6593.00             | 51.94          | 64.04                           | 57.93          | 64.51          | 0.000887             | 5.51               | 1195.81            | 126.11             | 0.32         |
| North Main                 | reach 1             | 220735           | 11576.00            | 51,94          | 66.19                           | 60.42          | 56.98          | 0.001618             | 7.34               | 2230.90            | 1324.61            | 0.43         |
|                            |                     |                  | <u> </u>            |                |                                 |                |                |                      |                    |                    |                    |              |
| North Main                 | reach 1             | 220633           | 2975.00             | 51.94          | 60,62                           | 55.55          | 60.64          | 0.000595             | 3.76               | 791.68             | 110.69             | 0.25         |
| North Main                 | reach 1.<br>reach 1 | 220633           | 4660.00             | 51.94          | 62.65                           | 58.76          | 62.97          | 0.000689             | 4.55               | 1025.06            | 119.84             | 0.27         |
| North Main                 | reach 1             | 220633<br>220633 | 6593.00             | 51.94          | 53.93                           | 57.93          | 64,41          | 0.000915             | 5.57               | 1182.78            | 125.64             | 0.32         |
| THO GIT WEST               | TOOLIT              | 220033           | 11576.00            | 51.94          | 65.87                           | 60.43          | 66,79          | 0.001749             | 7.82               | 1858.28            | 997.47             | 0.44         |
| North Main                 | reach 1             | 220295           | 2975.00             | 51.64          | 60.46                           | 55.22          | 60.65          | 0.000496             | 3.49               | 255.00             |                    |              |
| North Main                 | reach 1             | 220295           | 4660.00             | 51.84          | 62.48                           | 56.36          | 62.74          | 0.000586             | 4.26               | 853.33<br>1095.08  | 116.80<br>124.91   | 0.23         |
| North Main                 | reach 1             | 220295           | 6593.00             | 51.84          | 63.69                           | 57.44          | 64.11          | 0.000788             | 5.24               | 1344.67            | 435,80             | 0.25         |
| North Main:                | reach 1             | 220295           | 11578.00            | 51.84          | 65.77                           | 59.82          | 66.21          | 0.000996             | 5.92               | 3580.41            | 1780.30            | 0.34         |
|                            |                     |                  |                     |                |                                 |                |                |                      |                    |                    | 1700,00            |              |
| North Main                 | reach 1             | 219330           | 2975.00             | 51. <b>58</b>  | 60.14                           | 54.48          | 60.26          | 0.000303             | 2.76               | 1077.87            | 145.38             | 0.18         |
| North Main                 | reach 1             | 219330           | 4660.00             | 51.58          | 62.09                           | 55.44          | 62.27          | 0.000361             | 3.40               | 1369.73            | 153.43             | 0.20         |
| North Main                 | reach 1             | 219330           | 6593.00             | 51. <b>58</b>  | 63.18                           | 56.38          | 83.46          | 0.000511             | 4.29               | 1538.54            | 157.90             | 0.24         |
| North Main                 | reach 1             | 219330           | 11576.00            | 51. <b>58</b>  | 64.74                           | 58.40          | 65.29          | 0.000898             | 6.11               | 2673.13            | 1357,30            | 0.33         |
| North Main                 | reach 1             | 218000.          | 2975.00             | 51.04          |                                 |                |                |                      |                    |                    |                    |              |
| North Main                 |                     | 218000.          | 4660.00             | 51.24<br>51.24 | 59.77<br>61. <b>64</b>          | 53.94          | 59.87<br>61.81 | 0.000273             | 2.68               | 1120,24            | 147.75             | 0.17         |
| North Main                 | reach 1             | 218000.          | 6593.00             | 51,24          | 62.59                           | 54.86<br>55,78 | 62.82          | 0.000338             | 3.32               | 1403.27            | 154.91             | 0.19         |
| North Main                 | reach 1             | 218000.          | 11576.00            | 51.24          | 84.15                           | 57.77          | 64.37          | 0.000440             | 4.48               | 2405.76<br>5273.04 | 1505.83<br>2079.79 | 0.22         |
|                            |                     |                  |                     |                |                                 |                |                | 0.55                 | 7.40               | 3270.04            | 2018.15            | 0.24         |
| North Main                 | reach 1             | 216808           | 2975.00             | 51.24          | 59.25                           | 54.39          | 59.43          | 0.000515             | 3.39               | 876.59             | 129.63             | 0.23         |
|                            |                     | 216800           | 4660.00             | 51.24          | 61.07                           | 55.45          | 61.29          | 0.000551             | 3.94               | 1723.37            | 1539.52            | 0.24         |
|                            |                     | 216808           | 6593.00             | 51.24          | 62.13                           | 58.49          | 62.29          | 0.000439             | 3.73               | 3862.89            | 2247.67            | 0.22         |
| North Main                 | reach 1             | 216808           | 11576.00            | 51.24          | 63,82                           | 58.70          | 63.91          | 0.000319             | 3.33               | 8379.88            | 3047.42            | 0.19         |
| North Main:                | reach 1             | 216752           | 2075 00             | 51.04          | 50.00                           |                |                | <u> </u>             |                    |                    |                    |              |
| North Main                 |                     | 216752           | 2975.00<br>4660.00  | 51.24<br>51.24 | 59.22                           | 54.40          | 59,40          | 0.000523             | 3.41               | 872.48             | 129.47             | 0.23         |
| North Main                 |                     | 216752           | 6593.00             | 51.24          | 61.03<br>62.10                  | 55.45          | 61.26          | 0.000568             | 3.99               | 1664.84            | 1499.27            | 0.25         |
| North Main                 |                     | 216752           | 11578.00            | 51.24          | 63.80                           | 56.49<br>58.70 | 63.89          | 0.000454             | 3.78               | 3785,32<br>8318,30 | 2236.58            | 0.22         |
|                            |                     |                  |                     |                | 20.00                           | 30.70          | 55.08          | 0.000325             | 3.35               | 6318.30            | 3040.41            | 0.19         |
| North Main                 | reach 1             | 216000.          | 2975.00             | 51.25          | 58.68                           | 54.46          | 58.93          | 0.000745             | 3.99               | 748.25             | 112.81             | 0.27         |
|                            |                     | 215000.          | 4860.00             | 51.25          | 60.50                           | 55.55          | 60.79          | 0.000720             | 4.45               | 1730.67            | 1671.24            | 0.28         |
| North Main                 |                     | 216000.          | 6593.00             | 51.25          | 61,79                           | 56.64          | 61.92          | 0.000436             | 3.60               | 4130.48            | 2006.19            | 0.22         |
| North Main                 | reach 1             | 216000.          | 11578.00            | 51.25          | 63.57                           | 58.97          | 63. <b>63</b>  | 0.000345             | 2.89               | 8062.66            | 2459.82            | 0.19         |
|                            |                     |                  |                     |                |                                 |                |                |                      |                    |                    |                    |              |
|                            |                     | 214269           | 2975.00             | 51.25          | 57.68                           | 53.68          | 57.84          | 0.000520             | 3.13               | 950.52             | 160.33             | 0.23         |
| North Main<br>North Main   |                     | 214269           | 4660,00             | 51.25          | 59.45                           | 54.52          | 59.67          | 0.000559             | 3.76               | 1243.26            | 264.97             | 0.24         |
|                            |                     | 214269<br>214269 | 6593.00<br>11576.00 | 51.25<br>51.25 | 60. <b>92</b><br>62. <b>8</b> 1 | 55.36          | 61.13          | 0.000487             | 3.87               | 2675.63            | 1260.10            | 0.23         |
| - VOILIT MILES             | TORAL C             | 214209           | 11376,001           | 31.25          | 02.61                           | 57.16          | 62.98          | 0.000439             | 4.08               | 5177.17            | 1446.31            | 0.23         |
| North Main                 | reach 1             | 212822           | 2975.00             | 51.25          | 55.43                           | 54.24          | 56.13          | 0.004223             | 6.74               | 441.24             | 112 20             | 0.80         |
|                            |                     | 212822           | 4660.00             | 51.25          | 57.22                           | 55.27          | 58.02          | 0.003089             | 6.74<br>7.16       | 441.34<br>651.06   | 113.39<br>120.20   | 0.60         |
|                            |                     | 212822           | 6593.00             | 51.25          | 58.70                           | 56.29          | 59.67          | 0.002903             | 7.16               | 851.31             | 284.69             | 0.54         |
|                            |                     | 212822           | 11576.00            | 51.25          | 60.51                           | 59.63          | 61.69          | 0.003171             | 9.37               | 1838.37            | 697.51             | 0.58         |
|                            |                     |                  |                     |                |                                 |                |                |                      |                    |                    |                    |              |
| North Main                 | reach 1             | 212818           | Inline Weir         |                |                                 |                |                |                      |                    |                    |                    |              |
| N                          |                     |                  |                     |                |                                 |                |                |                      |                    |                    |                    |              |
|                            |                     | 212769           | 2975.00             | 44.29          | 55.42                           | 47.99          | 55.54          | 0.000250             | 2.82               | 1053.42            | 116.66             | 0.17         |
| North Main                 |                     | 212769           | 4660,00             | 44.29          | 57.22                           | 49.16          | 57.41          | 0.000333             | 3.55               | 1603.39            | 539.58             | 0.19         |
| North Main:<br>North Main: |                     | 212769<br>212769 | 6593.00             | 44.29          | 58.70                           | 50.32          | 58.91          | 0.000363             | 3.93               | 2432.41            | 626.22             | 0.21         |
| A KE ( FROM 1)             | reach 1             | E.16/100         | 11576.00            | 44.29          | 60.50                           | 52.80          | 60.80          | 0.000521             | 5.02               | 3647.48            | 747.41             | 0.25         |
| North Main                 | reach 1             | 211780           | 2975.00             | 43.36          | 55.30                           | 48.55          | 55.38          | 0.000121             | 2.08               | 1849.40            | pee en             |              |
|                            |                     | 211780           | 4680.00             | 43.36          | 57.13                           | 47.61          | 57.19          | 0.000121             | 2.08               | 4326.38            | 958.32<br>1732.69  | 0.12         |
|                            |                     |                  |                     |                |                                 | 47.01          | 37.13          | 3.000 107            | 2.09               | +320.3B            | 1732.00            | 0.11         |

Plan: P 10 D 2 (Continued)
River Sta Q Total HEC-DAS Rive Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Top Width Froude # Chl Flow Area (h) (11) (ft) (fl/ft) (8q ft) (ft) 7376.93 2328.95 North Main reach t 211780 6593.00 43.36 58.64 48.66 58.67 0.000098 1 87 0.11 North Main reach 1 211780 11576.00 43.36 60.49 50.90 60.51 0.000096 1.92 12483.55 3273.76 0.11 210419 North Main 47.04 reach 1 2975.00 43.36 55.04 55.14 0.00020 2.59 1406.88 1514.52 0.15 North Main 210419 4660.00 43.36 57.02 48.27 57.05 0.000105 1.85 6085.09 2805.04 0.11 North Main reach 1 210419 6593.00 43.36 58.56 58.57 0.000064 1.24 11321.24 4035.70 0.08 North Melr each 1 210419 11576.00 43.36 60.43 51.97 60.43 0.00004 19459.71 1.16 4584.38 0.07 North Main reach 1 209041 2975.00 43.31 54.75 46.85 54.88 0.000210 2.62 1133.83 123.83 0.15 North Main 209041 reach 1 4660.00 43.31 56.64 48.03 56 82 0.000295 3.38 1457 77 653.04 0.18 North Main reach 1 209041 6593.00 43.31 58.25 49.19 58.41 0.000283 3.52 3396.48 1735.98 0.18 North Mair reach 1 209041 11576.00 43.31 60.24 51.64 60.33 0.000216 3.30 9210.85 4722.19 0.16 North Mair each 1 208000 2975.00 43.31 54.52 46.80 54.63 0.00022 2.70 1102.81 120.24 0.16 North Main reach 1 208000 4660.00 43.31 56.31 47.97 56.50 0.000322 3.52 1331.33 217.48 0.19 North Main reach 1 208000 6593.00 43.31 57 B1 49.12 58.03 0.00053 3.95 2535.06 1849.50 0.24 North Main reach 1 208000 11576.00 43,31 60.07 51.59 60.13 0.000257 2.60 10940.15 6181.20 0.16 North Main 43.31 54.48 46.84 54.59 reach t 207786 2975.00 0.000223 1129.77 2.63 129.01 0.16 reach 1 207786 4660.00 43.31 56.24 48.02 56.42 0.000326 3.40 1438.17 549.04 0.19 North Main each 1 207786 6593.00 57.77 43.31 49.16 57.92 0.000327 3.46 3704.92 2712.83 0.19 North Main reach 1 207766 11576.00 43.31 60.05 51.60 2.03 13636.52 5753.38 0.13 207730 North Main reach 1 2975.00 43.31 54.47 46.83 54.58 0.000224 2.64 1128 10 128 94 0.16 North Ma 207730 4660.00 reach 1 43.31 56,23 48.02 56.41 0.000328 3.41 1427.71 532.79 0.19 North Mair reach 1 207730 6593.00 43.31 57.76 49.16 57.92 0.000329 3.47 3676.47 2678.46 0.19 207730 11576.00 43.31 60.04 51,60 60.07 0.00016 2.04 13581.63 5752.30 0.13 North Main reach 1 206000 2975.00 43.32 54.16 46.71 54.23 0.000167 2.31 2627.36 2443.65 0.14 North Main reach 1 208000 4660.00 43.32 56.17 47.85 56.18 0.000047 1.26 9863 11 3965 09 0.07 North Main 6593.00 57.76 57.77 reach 1 208000 43.32 48.97 0.000023 0.91 16197.82 4005.67 0.05 North Main reach 1 206000 11576.00 43.32 51.37 0.000019 59.98 59.99 0.84 25617.50 4388.64 0.05 North Main each 1 204471 2975.00 43.17 53.77 46.69 53.91 0.000276 2.90 1026.43 118.20 0.17 North Mair each 1 204471 4660.00 43 17 55.80 47.88 56.01 0.000382 3.66 1274.09 126.22 0.20 North Main reach 1 204471 6593 00 43 17 57.37 49.02 57 64 0.000534 4.27 1832.30 636.74 0.24 North Main reach 1 204471 11578.00 43.17 59.60 51.50 59.88 0.000626 4.77 4216.68 1576.48 0.27 North Make 203192 2975.00 43,15 53.53 46.10 53.61 0.000173 reach 1 1291.52 2.30 150.35 0.14 North Main reach 1 203192 4660.00 43.15 55.50 47.09 55.63 0.000226 2.89 1669.43 199.88 0.16 North Main 6593.00 43.15 56.92 48.09 57.12 reach 1 203192 0.000303 3.54 1973.44 256.42 0.19 North Main each 1 203192 11576.00 43.15 58.79 50.21 59.18 0.00053 5.05 2965.18 794.12 0.26 North Main naarch 1 202000 2975.00 42 72 53 29 45.85 53.39 0.000203 2.54 1169.92 129.90 0.15 North Main reach 1 202000. 4660,00 42.72 55.15 46.91 55.32 0.000282 3.28 1439.24 369.68 0.18 6593.00 56.69 North Main reach 1 202000 42.72 56.48 47.96 0.000413 3.83 2304.40 863 62 0.22 North Main 58.24 reach 1 202000 11576.00 42.72 50.22 58.49 0.000525 4.51 4308.00 1425.84 0.25 each 1 201961 2975.00 42.72 53.28 45.86 53.38 North Main 0.000197 2.48 1198.87 136.39 0.15 0.000272 North Main reach 1 201961 4660.00 42.72 55,14 46.91 55.30 3.19 1474.61 281.31 0.18 North Main each 1 201961 6593.00 42.72 56.46 47.95 56.67 0.00033 3.75 2415.55 1011.49 0.20 North Main reach 1 201961 11576.00 42.72 58.23 50.20 58.46 0.000446 4.44 4777.72 1851.68 0.23 201917 2975.00 42.72 53.27 45.87 53.37 0.000198 North Main reach 1 2.48 1197.66 136.36 0.15 North Main reach 1 201917 4660.00 42.72 55.13 46.92 55.29 0.000273 3.19 1471.18 271.80 0.18 each 1 201917 6593.00 42.72 56.45 47.96 56.65 North Main 0.00033 3.76 0.20 North Main 201917 11576.00 42.72 58.20 50.20 58.44 0.000453 4733.52 reach 1 4 46 1841.14 0.23 North Main reach 1 201322 2975.00 42.52 53.15 45.65 53.25 0.000195 2.51 1186.30 130,35 0.15 55.13 201322 4660.00 42.52 46.69 0.000276 1428.26 853.12 North Main reach t 54.96 3.26 0.18 North Main 201322 6593.00 42.52 56.17 47.75 56.43 reach 1 0.00039 4.13 1594.95 1007.43 0.22 North Main reach 1 201322 11576.00 57.37 50.00 0.000912 6.55 1767.28 1162.32 0.33 North Main each t 200876 2975.00 42 52 52.99 46.06 53.10 0.000266 2.73 1088.24 135.46 0.17 North Main reach 1 200676 4660.00 42.52 54.80 47.21 54.95 0.000306 3.20 2074.28 927.47 0.19 6593.00 48.35 56.16 North Main reach 1 200678 42.52 56.04 0.000392 3.23 3331.83 1173.08 0.21 57.35 0.000648 North Main 200676 11576.00 42.52 50.72 57.48 5253.14 reach 1 3.51 1733.05 0.25 200030 2975.00 42.52 52.82 45.77 52.94 0.000246 2.74 1085.03 124.66 North Main reach 1 0.16 reach 1 North Main 200030 4660.00 42.52 54.64 46.88 54.77 0.000258 3.08 2322.58 848.09 0.17 North Main reach 1 200030 6593 00 42 52 56.02 47.96 56 04 0.000075 1.77 12048 19 6280.29 0.09 North Main reach 1 200030 11576.00 42.52 57.35 50.30 57.36 0.000058 1.64 20512.82 6457.97 0.08 42.52 52.80 45.77 52.92 0.00024 1082.91 199964 2975.00 2.75 124.59 0.16 North Main each 1 North Main 199964 4660.00 42.52 54.62 46.88 54.75 0.00026 3.09 2306.77 845.71 0.17 reach 1 North Main reach 1 199964 6593.00 42.52 56.01 47.96 56.04 0.000075 1.77 12015.68 6279.41 0.09 North Main reach t 199964 11576.00 42.52 57.34 50.30 57.36 0.000058 1.64 20487.80 6457.50 0.08 North Main reach 1 198000 2975.00 42.52 52.35 45.61 52.45 0.000224 2.59 1666.38 1292.41 0.15 4660.00 54.51 46.65 54.52 0.000053 9593.79 North Main reach 1 198000 42.52 1.41 4470.08 80.0 North Main 55.94 47.70 18935.56 198000 6593.00 55.95 0.000027 1.03 7656.41 reach 1 42.52 0.06 North Main 11576.00 42.52 57.28 49.93 57.28 0.000025 0.99 29317.00 7798.67 0.05 reach 1 198000

HEC DAS Plan: P 10 D 2 (Continued)

| North Main  | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1  |   | (cia)  | (h)  | W.S. Elev  | Crit W.S.  | E.G. Elev  | E.G. Slope   | Vel Chnl   | Flow Area   | Top Width   | Froude # Ch   |
|---|---|---|--|--|--|--|--|--|--|---|---|---|
|   | reach 1   | 197381  | 2975.00  |  |  |  | (ft)   | (ft/ft)  | (fl/s)   | (sq ft)   | (ft)  | 7,125,117   |
| North Main  | reach 1   |   |  | 42.52  | 52.18  | 45.65  | 52.30  | 0.000267   | 2.75   | 1130.78   | 336.91  | 0.  |
|   |   | 197381  | 4860.00  | 42.52  | 54.45  | 46.70  | 54.48  | 0.000105   | 1.94   | 6447.07   |   |   |
| North Main  | reach 1   | 197381  | 6593.00  | 42.52  | 55.92  | 47.75  | 55.93  |  |  |   | 3652.19   | 0.  |
| North Main  | reach t   | 197381  | 11578.00   | 42.52  |  |  |  |  | 1,40   | 13288.63  | 5807.88   | 0.  |
| 1000  | . Extensive Fig.  |   | - 1101010  | 42.32  | 57.28  | 49.98  | 57.27  | 0.000045   | 1.42   | 23724.88  | 8913,91   | 0.  |
| North Main  | reach 1   | 407040  | +  |  |  |  |  |  |  |   |   |   |
|   |   | 197333  | 2975.00  | 42.52  | 52.17  | 45.65  | 52.29  | 0.000289   | 2.75   | 1126.53   | . 200 00  |   |
| North Main  | reach 1   | 197333  | 4860.00  | 42.52  | 54.41  | 46.71  | 54.47  |  | ~  |   | 329.82  | 0.  |
| North Main  | reach.1   | 197333  | 6593.00  | 42.52  |  |  |  | 0.000160   | 2.39   | 4887.60   | 3523.90   | 0.  |
| North Make  | reach 1   | 197333  |  |  | 55.91  | 47.75  | 55.93  | 0.000066   | 1.63   | 11784.58  | 5768,15   | 0.1   |
| 7.700   |   | 107000  | 11576.00   | 42.52  | 57.25  | 49.98  | 57.27  | 0.000055   | 1.57   | 22228.46  | 8913,78   |   |
|   | - 1.300000  |   |  | /  |  |  |  |  |  |   | 0313.70   | 0.0   |
| North Main  | reach 1   | 196000.   | 2975.00  | 42.53  | 51.75  | 45.70  | 51.89  | 0.000004   |  |   |   |   |
| North Main  | reach f   | 196000.   | 4660.00  | 42.53  |  |  |  | 0.000331   | 2.98   | 1000.88   | 142.41  | Q.  |
| North Main  | reach 1   | 196000.   |  |  | 53.97  | 48.77  | 54.16  | 0.000355   | 3.49   | 1733,27   | 1538.56   | 0.2   |
| North Main  |   |   | 6593.00  | 42.53  | 55.75  | 47.82  | 55.80  | 0.0001691  | 2.34   | 7364.96   | 4192.28   |   |
| THOUSE THE STATE OF   | reach 1   | 196000  | 11578.00   | 42.53  | 57.13  | 50.10  | 57.16  | 0.000129   |  |   |   | 0.1   |
| H80500 000  | 216 498 (480)   | A. 148 E. A   |  |  |  | -  |  | 0.000123   | 2.01   | 14009.16  | 5443.1€   | 0.1   |
| North Main  | reach 1   | 194500  | 2975.00  | 42.53  |  |  |  |  |  |   |   |   |
| North Main  | reach 1   | 194500  |  |  | 51.09  | 45.88  | 51.28  | 0.000508   | 3.50   | 849.89  | 117.17  | 0.2   |
| North Main  |   |   | 4660.00  | 42.53  | 53.21  | 47.00  | 53.48  | 0.000589   | 4.21   | 1107.71   | 128.05  |   |
|   | reach   | 194500  | 6593.00  | 42.53  | 54.99  | 48.11  | 55.32  | 0.000004   | 4.72   |   |   | 0.2   |
| North Main  | reach 1   | 194500  | 11576.00   | 42.53  | 56.78  |  |  |  |  | 2204.90   | 3245,89   | 0.2   |
|   | 4 4 3 3 5 5 5   |   |  |  | 30.78  | 50.49  | 58.87  | 0.000307   | 3.41   | 9398.86   | 4537.43   | 0.1   |
| North Main  | reach 1   | 404404  | <del>+</del>   |  |  |  | 1  |  |  |   |   |   |
|   |   | 194434  | 2975.00  | 42.53  | 51.05  | 45.88  | 51.24  | 0.000513   | 3.52   | 945 70  | <del></del>   |   |
| North Main  | reach 1   | 194434  | 4660.00  | 42.53  | 53.18  | 47.00  | 53.44  |  |  | 845.70  | 117 32  | 0.2   |
| North Main  | reach 1   | 194434  | 6593.00  | 42.53  |  |  |  | 0.000577   | 4.23   | 1102.57   | 125.88  | 0.2   |
| North Main  | reach 1   | 194434  |  |  | 54.94  | 48.10  | 55,28  | 0.000622   | 4.78   | 2049.49   | 2758.34   | 0.2   |
|   |   | 10-7404   | 11578.00   | 42.53  | 56.75  | 50.49  | 58.85  | 0.000315   | 3.45   | 9290.84   | 4532.43   |   |
| M- 45   | A 25 15 15 11   |   |  |  |  |  |  |  |  | 223.04  | 400Z.43   | 0.1   |
| North Main  | reach 1   | 194000.   | 2975.00  | 42.44  | 50.83  | 45.75  |  |  |  |   |   |   |
| North Main  | reach 1   | 194000.   | 4660,00  | 42.44  |  |  | 51.02  | 0.000511   | 3.47   | 856.40  | 120.58  | 0.2   |
| North Main  | reach 1   | 194000.   | +  |  | 52.92  | 46.86  | 53.19  | 0.000571   | 4.17   | 1117.87   | 129.65  | 0.2   |
|   |   |   | 6593.00  | 42.44  | 54.84  | 47.94  | 55.01  | 0.000451   | 3.73   | 3936.27   | 3597.14   |   |
| North Main  | reach 1   | 194000.   | 11576.00   | 42.44  | 56.69  | 50.26  | 56.72  | 0.000196   |  |   |   | 0.2   |
|   |   | 2 70 72   | I  | <del></del>  |  | 50.20  | 50.72  | 0.000196   | 2.31   | 11919.14  | 4480.76   | 0.1   |
| North Main  | reach 1   | 192000  | 2075 00  |  |  |  | l  |  |  |   |   |   |
| Vorth Main  | reach 1   |   | 2975.00  | 42.24  | 49.54  | 45.43  | 49.78  | 0.000762   | 3.96   | 750.76  | 117.27  | 0.2   |
|   |   | 192000  | 4660.00  | 42.24  | 51.48  | 48.50  | 51.83  | 0.000826   | 4.73   | 986,53  |   |   |
| North Main  | reach 1   | 192000  | 6593.00  | 42.24  | 53.40  | 47.57  | 53.76  | 0.000886   |  |   | 138.24  | 0.3   |
| Yorth Main  | reach 1   | 192000  | 11576.00   | 42.24  |  |  | +  |  | 4.95   | 1838,94   | 1020.23   | 0.3   |
| 9.5.0   | 1 1 2 2 2   | 7 7 7 7 7   | 1.070.00   | 76.27  | 56.21  | 49.85  | 56.28  | 0.000253   | 2.87   | 8820.79   | 2854.83   | 0.1   |
| North Main  |   | <del>-  </del>  | <del></del>  |  |  |  |  |  |  |   |   |   |
|   | reach f   | 190533  | 2975.00  | 42.24  | 48.87  | 45.50  | 47.47  | 0.004581   | 7.21   | 440.00  |   |   |
| Vorth Main  | reach 1   | 190533  | 4660.00  | 42.24  | 49.01  | 46.62  |  |  |  | 412.85  | 100.83  | 0.6   |
| Vorth Main  | reach 1   | 190533  | 6593.00  |  |  |  | 49.79  | 0.002644   | 7.07   | 659.18  | 109.06  | 0.5   |
| forth Main  | reach 1   |   |  | 42.24  | 50.77  | 47.70  | 51.69  | 0.002398   | 7.69   | 858.86  | 115.36  | 0.5   |
| TOTAL INCOME.   | 100011  | 190533  | 11578.00   | 42.24  | 53.93  | 50.05  | 55.27  | 0.002794   | 9.30   | 1244.58   |   |   |
|   |   |   | Į T  |  |  |  |  |  | - 0.00   | 1244.30   | 5141.03   | 0.5   |
| lorth Main  | reach 1   | 190528  | Inline Weir  |  | +-   |  | +  |  |  |   |   |   |
| 10/10/10/19   | A 1 472.13  |   |  |  |  |  |  |  |  |   |   |   |
| lorth Main  |   |   | <u> </u>   |  |  |  |  |  |  |   |   |   |
|   | reach 1   | 190513  | 2975.00  | 38.26  | 45.66  | 41.63  | 46.68  | 0.000571   | 3.72   | 798.70  | 100.00  |   |
| lorth Main  | reach 1   | 190513  | 4660.00  | 38.26  | 49.00  | 42.78  | 49.30  |  |  |   | 108.67  | 0.2   |
| lorth Main  | reach 1   | 190513  | 6593.00  | 38.26  |  |  | $\overline{}$  | 0.000600   | 4.39   | 1062.44   | 116.48  | 0.2   |
| ionth Main  | reach 1   | 190513  |  |  | 50.77  | 43.92  | 51.18  | 0.000704   | 5.18   | 1272.79   | 121.88  | 0.2   |
|   | 1.00.211  | 190013  | 11576.00   | 38.26  | 53.92  | 46.35  | 54.65  | 0.001138   | 6.87   | 1684.13   | 5125.47   | 0.3   |
|   |   | 1 7 7 7 7 7 7   |  | 1  |  | - $T$  |  |  |  |   | 0.20.47   | 0.3   |
| lorth Main  | reach 1   | 190000  | 2975.00  | 38.26  | 46.40  | 41.46  | 48.59  | 0.000500   |  |   |   |   |
| lorth Main  | reach 1   | 190000  | 4660.00  | 38.26  |  |  |  | 0.000528   | 3.49   | 851.53  | 122.00  | 0.2   |
| orth Main   | reach 1   | 190000  |  |  | 48.74  | 42.56  | 49.00  | 0.000533   | 4.05   | 1149.57   | 131.97  | 0.2   |
|   |   |   | 6593.00  | 38.26  | 50.47  | 43.63  | 50.82  | 0.000620   | 4.76   | 1383.95   | 3897.21   |   |
| orth Main   | reach 1   | 190000  | 11576.00   | 38.26  | 53.44  | 45.89  | 54.07  | 0.001018   | 6.34   |   |   | 0.2   |
| 1.0   | 1   |   |  |  |  |  | - 04.07  | 0.001010   | 0.34   | 1826,12   | 5353.42   | 0.3   |
| orth Main   | reach 1   | 189032  | 2975.00  |  |  |  |  |  |  |   |   |   |
| orth Main   | reach 1   |   |  | 38.26  | 45.78  | 41.50  | 46.00  | 0.000691   | 3.74   | 794.93  | 126.79  | 0.20  |
| orth Main   |   | 189032  | 4660.00  | 38.26  | 48.16  | 42.59  | 48.44  | 0.000635   | 4.19   | 1112.62   | 140.22  |   |
|   | reach 1   | 189032  | 6593.00  | 38.26  | 40.04  |  |  |  |  | , , , E. OC   |   | 0.20  |
|   | reach 1   |   |  |  | 49.81  | 43.63  | 50 40  | 0.000700   |  | 1000  |   |   |
|   | raacar r  | 189032  |  |  |  | 43.63  | 50.18  | 0.000728   | 4.88   | 1350.67   | 3441.50   | 0.29  |
|   | 100017  | 189032  | 11578.00   | 38.26  | 52.31  | 43.63<br>45.89   | 50.18<br>52.98   | 0.000728<br>0.001214   |  | 1350.67<br>1756.38  | 3441.50<br>4935.68  |   |
| orth Main   | - 1 H   | at Laginoral I  | 11578.00   | 38.26  | 52.31  | 45.89  |  |  | 4.88   |   |   |   |
| orth Main<br>orth Main  | reach 1   | 188975  | 11576.00<br>2975.00  | 38.26  |  |  |  |  | 4.88<br>6.59   | 1756.38   | 4935.68   | 0.3   |
| orth Main<br>orth Main  | reach 1   | 188975<br>188975  | 11578.00   | 38.26  | 52.31  | 45.89  | 52.98<br>45.96   | 0.001214   | 4.88<br>6.59<br>3.77   | 1756.38<br>789.36   | 4935.68<br>126.54   | 0.3   |
| orth Main<br>orth Main  | reach 1   | 188975  | 11576.00<br>2975.00  | 38.26<br>38.26<br>38.26  | 52.31<br>45.74<br>48.12  | 45.89<br>41.50<br>42.59  | 52.98<br>45.98<br>48.40  | 0.001214<br>0.000705<br>0.000644   | 4.88<br>6.59<br>3.77<br>4.21   | 789.36<br>1107.05   | 126.54<br>140.00  | 0.3   |
|   | reach 1<br>reach 1  | 188975<br>188975<br>188975  | 2975.00<br>2975.00<br>4660.00<br>6593.00   | 38.26<br>38.26<br>38.26<br>38.26   | 52.31<br>45.74<br>48.12<br>49.76   | 45.89<br>41.50<br>42.59<br>43.64   | 52.98<br>45.96<br>48.40<br>50.14   | 0.001214<br>0.000705<br>0.000644<br>0.000738   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91   | 1756.38<br>789.36   | 4935.68<br>126.54   | 0.3<br>0.2<br>0.2   |
| orth Main<br>orth Main<br>orth Main<br>orth Main  | reach 1   | 188975<br>188975  | 11578.00<br>2975.00<br>4660.00   | 38.26<br>38.26<br>38.26  | 52.31<br>45.74<br>48.12  | 45.89<br>41.50<br>42.59  | 52.98<br>45.98<br>48.40  | 0.001214<br>0.000705<br>0.000644   | 4.88<br>6.59<br>3.77<br>4.21   | 789.36<br>1107.05   | 126.54<br>140.00<br>3379.03   | 0.3<br>0.2<br>0.20<br>0.20  |
| orth Main<br>orth Main<br>orth Main<br>orth Main  | reach 1<br>reach 1<br>reach 1<br>reach 1  | 188975<br>188975<br>188975<br>188975  | 2975.00<br>4680.00<br>6593.00<br>11576.00  | 38.26<br>38.26<br>38.26<br>38.26   | 52.31<br>45.74<br>48.12<br>49.76   | 45.89<br>41.50<br>42.59<br>43.64   | 52.98<br>45.96<br>48.40<br>50.14   | 0.001214<br>0.000705<br>0.000644<br>0.000738   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91   | 789.36<br>1107.05<br>1343.76  | 126.54<br>140.00  | 0.3<br>0.2<br>0.20<br>0.20  |
| orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main   | reach 1<br>reach 1<br>reach 1<br>reach 1  | 188975<br>188975<br>188975<br>188975<br>188975  | 2975.00<br>2975.00<br>4660.00<br>6593.00   | 38.26<br>38.26<br>38.26<br>38.26   | 52.31<br>45.74<br>48.12<br>49.76   | 45.89<br>41.50<br>42.59<br>43.64<br>45.89  | 52.98<br>45.96<br>48.40<br>50.14<br>52.91  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65   | 789.36<br>1107.05<br>1343.76<br>1740.79   | 126.54<br>140.00<br>3379.03<br>4908.23  | 0.3<br>0.2<br>0.2<br>0.2<br>0.3   |
| orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main   | reach 1<br>reach 1<br>reach 1<br>reach 1  | 188975<br>188975<br>188975<br>188975  | 2975.00<br>4860.00<br>6593.00<br>11576.00  | 38.26<br>38.26<br>38.26<br>38.26<br>38.26<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28   | 45.89<br>41.50<br>42.59<br>43.64<br>45.89  | 52.98<br>45.96<br>48.40<br>50.14<br>52.91  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65   | 789.36<br>1107.05<br>1343.76<br>1740.79   | 126.54<br>140.00<br>3379.03<br>4908.23  | 0.3<br>0.2<br>0.2<br>0.2<br>0.3   |
| orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main  | reach 1<br>reach 1<br>reach 1<br>reach 1  | 188975<br>188975<br>188975<br>188975<br>188975<br>188000  | 2975.00<br>2975.00<br>4860.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00   | 38.26<br>38.26<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82  | 41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75   | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63   | 789.36<br>1107.05<br>1343.76<br>1740.79   | 126.54<br>140.00<br>3379.03<br>4908.23  | 0.3°<br>0.2°<br>0.2°<br>0.3°<br>0.3°  |
| orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000  | 2975.00<br>4860.00<br>6593.00<br>11576.00<br>2307.00<br>3399.00<br>4719.00   | 38.26<br>38.28<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47   | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45   | 52.98<br>45.96<br>48.40<br>50.14<br>52.91  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65   | 789.36<br>1107.05<br>1343.76<br>1740.79   | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90   | 0.3° 0.2° 0.20 0.30 0.30 0.30   |
| orth Main<br>orth Main<br>orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000  | 2975.00<br>2975.00<br>4860.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00   | 38.26<br>38.26<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82  | 41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75   | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63<br>2.98   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1582.31  | 126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25   | 0.33<br>0.22<br>0.26<br>0.36<br>0.36  |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000  | 2975.00<br>4860.00<br>6593.00<br>11576.00<br>2307.00<br>3399.00<br>4719.00   | 38.26<br>38.28<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47   | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45   | 52.98<br>45.96<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61   | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000286   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63   | 789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96  | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90   | 0.3<br>0.2<br>0.2<br>0.3<br>0.3<br>0.3  |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000  | 2975.00<br>4860.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00<br>4718.00<br>10089.00   | 38.26<br>38.25<br>38.26<br>38.26<br>38.26<br>36.26<br>37.63<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76  | 52.98<br>45.96<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000288   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63<br>2.98<br>5.16   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1958.17   | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78   | 0.33<br>0.22<br>0.26<br>0.36<br>0.36  |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000  | 11576.00<br>2975.00<br>4890.00<br>6593.00<br>11576.00<br>2307.00<br>3399.00<br>4718.00<br>10089.00   | 38.26<br>38.28<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76  | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.81<br>51.94  | 0.001214<br>0.000705<br>0.000844<br>0.000738<br>0.001223<br>0.000425<br>0.000286<br>0.000881   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63<br>2.98   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1582.31  | 126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25   | 0.3<br>0.2<br>0.2;<br>0.3;<br>0.3;<br>0.2;<br>0.1;<br>0.1;  |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187889  | 2975.00<br>2975.00<br>4890.00<br>6593.00<br>11576.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00  | 38.26<br>38.28<br>38.26<br>38.26<br>36.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76  | 52.98<br>45.96<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000288   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63<br>2.98<br>5.16   | 1796.38<br>789.36<br>1107.05<br>1343.78<br>1740.79<br>887.89<br>1292.96<br>1582.31<br>1956.17<br>706.67   | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78   | 0.3<br>0.2<br>0.2<br>0.3<br>0.3<br>0.3<br>0.2<br>0.1<br>0.18<br>0.26  |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187869<br>187869  | 11576.00<br>2975.00<br>4890.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00                              | 38.26<br>38.28<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76  | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000286<br>0.000681<br>0.000535<br>0.000403   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.63<br>2.98<br>5.16<br>3.26<br>3.37   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1956.17<br>706.67<br>1009.17  | 128.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07  | 0.3<br>0.2<br>0.2<br>0.3<br>0.3<br>0.1<br>0.1<br>0.1<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2                                 |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187889  | 2975.00<br>2975.00<br>4890.00<br>6593.00<br>11576.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00  | 38.26<br>38.26<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32   | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56<br>42.40                                     | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55   | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000278<br>0.00028<br>0.00028<br>0.000681<br>0.000555<br>0.000403<br>0.000403   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.63<br>2.98<br>5.16<br>3.26<br>3.27<br>3.37   | 1756.38<br>789.38<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1956.17<br>706.67<br>1009.17<br>1214.93   | 128.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07<br>130.87  | 0.33 0.22 0.24 0.36 0.36 0.36 0.11 0.16 0.26 0.23 0.21 0.23   |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187869<br>187869  | 11576.00<br>2975.00<br>4890.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00                              | 38.26<br>38.28<br>38.26<br>38.26<br>36.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56  | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000286<br>0.000681<br>0.000535<br>0.000403   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.63<br>2.98<br>5.16<br>3.26<br>3.37   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1956.17<br>706.67<br>1009.17  | 128.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07  | 0.3  0.2  0.2: 0.3: 0.3: 0.1: 0.16 0.22 0.23 0.21 0.23  |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187869<br>187869<br>187869  | 11576.00<br>2975.00<br>4590.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00<br>4718.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00                  | 38.26<br>38.28<br>38.28<br>38.28<br>38.28<br>36.28<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63  | 52.31<br>45.74<br>46.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56<br>42.40<br>45.19                            | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55   | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000278<br>0.00028<br>0.00028<br>0.000681<br>0.000555<br>0.000403<br>0.000403   | 4.88<br>6.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.63<br>2.98<br>5.16<br>3.26<br>3.27<br>3.37   | 1756.38<br>789.38<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1956.17<br>706.67<br>1009.17<br>1214.93   | 128.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07<br>130.87  | 0.33 0.22 0.24 0.36 0.36 0.36 0.11 0.16 0.26 0.23 0.21 0.23   |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187869<br>187869<br>187869  | 11576.00 2975.00 4860.00 6593.00 11576.00 2307.00 3399.00 4718.00 10089.00 2307.00 3399.00 4719.00 10089.00  | 38.26<br>38.26<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63   | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32   | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56<br>42.40                                     | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55   | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000286<br>0.000681<br>0.000535<br>0.000403<br>0.000452<br>0.001249   | 4 88<br>6 59<br>3.77<br>4 21<br>4 91<br>6.65<br>2.66<br>2.63<br>2.98<br>5.16<br>3.26<br>3.37<br>3.88<br>5.98   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>887.89<br>1292.96<br>1582.31<br>1956.17<br>706.67<br>1009.17<br>124.93<br>1445.15   | 128.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07<br>138.06  | 0.33 0.22 0.24 0.34 0.25 0.30 0.27 0.17 0.16 0.28 0.23 0.21 0.22 0.38   |
| orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>188000<br>187869<br>187869<br>187869  | 11576.00<br>2975.00<br>4590.00<br>6593.00<br>11576.00<br>2307.00<br>3389.00<br>4718.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00                  | 38.26<br>38.28<br>38.28<br>38.28<br>38.28<br>36.28<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.78<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56<br>42.40<br>45.19<br>38.47                   | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55<br>51.78  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000425<br>0.000278<br>0.000286<br>0.000881<br>0.000535<br>0.000403<br>0.000452<br>0.001249   | 4 88<br>8.59<br>3.77<br>4 21<br>4.91<br>6.65<br>2.63<br>2.63<br>2.98<br>5.16<br>3.26<br>3.37<br>3.88<br>6.98   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1956.17<br>706.67<br>1009.17<br>1214.93<br>1445.15  | 128.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.91<br>124.07<br>130.87<br>138.08  | 0.33 0.21 0.22 0.34 0.32 0.32 0.31 0.12 0.12 0.22 0.36 0.13 0.21 0.23   |
| orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>187869<br>187869<br>187869<br>187869<br>187869  | 11576.00 2975.00 4890.00 6593.00 11576.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00  | 38.26<br>38.28<br>38.28<br>38.26<br>38.26<br>36.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56<br>42.40<br>45.19<br>38.47<br>39.32          | 52.98<br>45.96<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55<br>51.78  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000278<br>0.000278<br>0.000286<br>0.000681<br>0.000403<br>0.000403<br>0.000403<br>0.000255<br>0.000225   | 4.88<br>8.59<br>3.77<br>4.21<br>4.91<br>6.65<br>2.66<br>2.63<br>2.98<br>5.16<br>3.26<br>3.26<br>3.28<br>6.98<br>2.55<br>2.56   | 1756.38<br>789.38<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.99<br>1582.31<br>1956.17<br>706.67<br>1009.17<br>1214.93<br>1445.15  | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.91<br>124.07<br>130.87<br>138.08                               | 0.3<br>0.2<br>0.2<br>0.3<br>0.3<br>0.1<br>0.16<br>0.25<br>0.23<br>0.23<br>0.21<br>0.23<br>0.23                          |
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| orth Main   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 188975<br>188975<br>188975<br>188975<br>188975<br>188000<br>188000<br>188000<br>187869<br>187869<br>187869<br>187869<br>187869  | 11576.00 2975.00 4890.00 6593.00 11576.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00  | 38.26<br>38.28<br>38.28<br>38.26<br>38.26<br>36.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03  | 45.89<br>41.50<br>42.59<br>43.64<br>45.89<br>41.06<br>41.75<br>42.45<br>44.76<br>40.75<br>41.56<br>42.40<br>45.19<br>38.47<br>39.32          | 52.98<br>45.96<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55<br>51.78  | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000278<br>0.000278<br>0.000286<br>0.000681<br>0.000403<br>0.000403<br>0.000403<br>0.000255<br>0.000225   | 4 88<br>6 59<br>3,77<br>4 21<br>4 91<br>6 65<br>2 66<br>2 63<br>2 .98<br>5 .16<br>3 .29<br>3 .39<br>3 .88<br>6 .96<br>2 .85<br>3 .39   | 1756.38  789.36 1107.05 1343.78 1740.79 867.89 1292.96 1582.31 1956.17  706.67 1009.17 1214.93 1445.15 901.34 1194.36 1392.01   | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07<br>130.87<br>138.08<br>110.37<br>119.85<br>125.90 | 0.3 0.2 0.2 0.2 0.3 0.3 0.1 0.1 0.2 0.2 0.2 0.3 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1     |
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| orth Main   | reach 1   | 188975 188975 188975 188975 188975 188000 188000 188000 188000 187869 187869 187869 187869 187869 187869 187869 187869  | 11576.00 2975.00 4890.00 6593.00 11578.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00                     | 38.26<br>38.28<br>38.28<br>38.26<br>38.26<br>36.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>34.85<br>34.85<br>34.85  | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03<br>45.14<br>47.68<br>49.29<br>50.95                            | 45.89 41.50 42.59 43.64 45.89 41.06 41.75 42.45 44.76 40.75 41.56 42.40 45.19 38.47 39.32 40.20 43.12  | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55<br>51.78<br>45.24<br>47.81<br>49.47<br>51.58                            | 0.001214 0.000705 0.000644 0.000738 0.001223 0.000278 0.000286 0.000881 0.000535 0.000403 0.000452 0.001249 0.000255 0.000278 0.000255 0.000279 0.000279   | 4 88<br>8.59<br>3.77<br>4 21<br>4 91<br>6.65<br>2.63<br>2.98<br>5.16<br>3.26<br>3.37<br>3.88<br>6.98<br>2.85<br>3.39<br>6.285<br>3.39<br>6.285   | 1756.38<br>789.36<br>1107.05<br>1343.76<br>1740.79<br>867.89<br>1292.96<br>1562.31<br>1956.17<br>706.67<br>1009.17<br>1214.93<br>1445.15<br>901.34<br>1194.36<br>1392.01<br>1605.62 | 126.54<br>140.00<br>3379.03<br>4508.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.91<br>124.07<br>130.87<br>136.08<br>110.37<br>119.85<br>125.90            | 0.3  0.2  0.2  0.3  0.2  0.3  0.2  0.1  0.12  0.23  0.25  0.25  0.25  0.25  0.26  0.16  0.16  0.16                      |
| orth Main   | reach 1                 | 188975 188975 188975 188975 188975 188000 188000 188000 188000 187869 187869 187869 187869 187869 187869 187894 187894 187894 187894                                    | 11576.00 2975.00 4890.00 6593.00 11576.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00                     | 38.26<br>38.28<br>38.28<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37 | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03<br>45.14<br>47.68<br>49.29<br>50.95                            | 45.89 41.50 42.59 43.64 45.89 41.06 41.75 42.45 44.76 40.75 42.40 45.19 38.47 39.32 40.20 43.12  | 52.98<br>45.96<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55<br>51.78<br>45.24<br>47.61<br>49.47<br>51.56                            | 0.001214<br>0.000705<br>0.000644<br>0.000738<br>0.001223<br>0.000278<br>0.00028<br>0.00028<br>0.000681<br>0.000681<br>0.000681<br>0.000452<br>0.000452<br>0.000275<br>0.000275<br>0.000275<br>0.000275<br>0.000275<br>0.000275<br>0.000275<br>0.000275<br>0.000275 | 4 88<br>6 59<br>3,77<br>4 21<br>4 91<br>6 65<br>2 66<br>2 63<br>2 .98<br>5 .16<br>3 .29<br>3 .39<br>3 .88<br>6 .96<br>2 .85<br>3 .39   | 1756.38  789.36 1107.05 1343.78 1740.79 867.89 1292.96 1582.31 1956.17  706.67 1009.17 1214.93 1445.15 901.34 1194.36 1392.01   | 4935.68<br>126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07<br>130.87<br>138.08<br>110.37<br>119.85<br>125.90 | 0.3  0.2  0.2  0.3  0.20  0.30  0.21  0.12  0.22  0.36  0.16  0.16  0.18  0.32  |
| orth Main   | reach 1                 | 188975 188975 188975 188975 188975 188000 188000 188000 188000 187869 187869 187869 187869 187869 187869 187869 187869 187869 187869 187860 188000 188000               | 11576.00 2975.00 4860.00 6593.00 11576.00 2307.00 3389.00 4718.00 10089.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00 4719.00 10089.00 2307.00 3399.00     | 38.26<br>38.28<br>38.26<br>38.26<br>38.26<br>38.26<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37.63<br>37 | 52.31<br>45.74<br>48.12<br>49.76<br>52.22<br>45.28<br>47.82<br>49.47<br>51.52<br>45.15<br>47.70<br>49.32<br>51.03<br>45.14<br>47.68<br>49.29<br>50.95                            | 45.89 41.50 42.59 43.64 45.89 41.06 41.75 42.45 44.76 40.75 41.56 42.40 45.19 38.47 39.32 40.20 43.12  | 52.98<br>45.98<br>48.40<br>50.14<br>52.91<br>45.39<br>47.93<br>49.61<br>51.94<br>45.32<br>47.88<br>49.55<br>51.78<br>45.24<br>47.81<br>49.47<br>51.58                            | 0.001214 0.000705 0.000644 0.000738 0.001223 0.000278 0.000286 0.000881 0.000535 0.000403 0.000452 0.001249 0.000255 0.000278 0.000255 0.000279 0.000279   | 4 88<br>8.59<br>3.77<br>4 21<br>4 91<br>6.65<br>2.63<br>2.98<br>5.16<br>3.26<br>3.37<br>3.88<br>6.98<br>2.85<br>3.39<br>6.285<br>3.39<br>6.285   | 1756.38  789.36 1107.05 1343.76 1740.79 867.89 1292.96 1562.31 1956.17 706.67 1009.17 1214.93 1445.15 901.34 1194.36 1392.01 1605.62  | 126.54<br>140.00<br>3379.03<br>4908.23<br>158.31<br>172.90<br>1721.25<br>5425.78<br>113.31<br>124.07<br>130.87<br>136.08<br>110.37<br>119.85<br>125.90<br>132.08  | 0.33 0.21 0.22 0.34 0.36 0.26 0.17 0.18 0.28 0.23 0.21 0.29 0.38 0.16 0.18 0.19 0.32                                    |
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Plan: P 10 D 2 (Continued)
River Sta | Q Total DAS Rive River Sta Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cla) (ft) (ft) (ft/ft) (ft/s) (aq ft) North Main 184000. 34.09 37.57 reach 1 3399.00 47 07 47.15 0.000139 2.32 1463.27 136.35 0.12 184000 48.82 North Main 4719.00 34.09 38.39 0.000181 48.93 2.72 2154.70 2397.35 0.15 North Main 164000 10089.00 34.09 50.90 41.08 50.94 0.000150 10487.11 4102.66 2.37 0.13 North Main ech I 182000 2307.00 33.49 44.36 44.42 36.24 0.00012 1157.34 127.22 0.12 North Main reach 1 182000 3399.00 33,49 46.80 37.03 46.88 0.000131 2.30 1478.26 136,34 0.12 North Mair each 1 182000 4719.00 33 49 48 5A 37 87 48 63 0.000114 1 99 5586.54 3969.38 0.11 North Main reach 1 182000 10089.00 33.49 50.72 40.61 50.74 0.000069 1.62 14518.32 4126.62 0.09 North Main 2307.00 33.44 180000. 44.10 0.000136 124.61 reach 1 36.25 44.16 2.07 1112.51 0.12 33.44 North Main 180000 3399.00 46.52 37.05 46.60 0.000144 2.39 1425.03 133.76 0.13 4719.00 33.44 48.23 37.90 0.000160 2.74 2106.19 2224.68 0.14 North Main reach 1 180000 10089.00 33.44 50.49 40.64 50.54 0.000143 2.33 10753.35 4114.07 0.13 North Main 178120 2307.00 33 43 43.72 36.84 43 R2 0.000246 2 57 899.37 115.24 0.16 North Main reach t 178120 3399.00 33,43 46.13 37.78 48.26 0.000241 2.85 1192.58 128.17 0.16 3.35 170120 4719.00 33.43 North Main reach 1 47.76 38.75 47.94 0.000292 1408.86 136.93 0.18 North Main 33.43 50.13 41.82 ach 1 178120 10089.00 4103.69 50.22 0.000223 3.18 8719.67 0.16 North Main 179059 2307.00 33.43 43.71 36.84 0.000247 2.57 0.16 North Main mach 1 17 3059 3399.00 33,43 46.12 37.78 48.25 0.000242 2.85 1191.46 128,12 0.16 reach t North Main 173059 4719.00 33,43 47.75 38.75 47.93 0.000293 3.35 1407.40 136.87 0.18 North Main reach 1 178059 10089.00 33.43 50.12 41.82 50.21 0.000226 3.20 8658.31 4103.02 0.17 North Main reach 1 178000 2307.00 33.28 43.72 36.31 43.80 0.000169 2.24 1027.81 120.22 0.14 North Main reach 1 3399.00 33.28 46.13 37.14 46.23 0.000174 2.58 1329.03 129.77 0.14 reach 1 178000 4719.00 33.28 47.76 38.00 47.90 0.000217 3.05 1545,88 North Main 136.23 0.16 North Main ach 1 178000 10089.00 33.28 50.14 40.85 50.18 0.000152 2.24 10959.21 4165.91 0.13 176000 2307.00 33.44 North Main reach 1 43.35 36.36 43.44 0.000190 2.31 998.85 123.20 0.14 North Main 33.44 37.18 178000 45.76 0.000189 1308.39 reach 1 3399.00 45.87 2.60 133.97 0.15 4719.00 33.44 47.28 47.41 3.11 1518.18 161.05 0.18 North Main reach 1 176000 38.06 0.000283 North Main 176000 33.44 49.83 40.88 0.000153 2.38 10948.24 5022.27 0.13 North Main sech 1 174282 2307.00 32.56 43.09 35 52 43 18 0.000135 2.06 1121.25 126.46 0.12 North Main reach 1 174282 3399.00 32.56 45.49 36.30 45,58 0.000141 2.37 1434.17 134.09 0.13 4719.00 46.85 37.10 149.63 North Main reach 1 174282 32.56 46.99 0.000209 2.91 1621.52 0.16 North Main reach 1 174282 10089.00 32.56 49.17 39.74 49.45 0.000522 4.42 4217.23 4084.22 0.24 North Main 173031 2307.00 reach 1 32.46 42.89 35.42 42.97 0.000167 2.23 121.36 0.13 3399.00 132.34 North Main reach 1 173031 32.46 45.28 36.25 45.38 0.000174 2.54 1336.91 0.14 North Main reach 1 173031 4719.00 32.46 46.55 37,15 46.71 0.000238 3.13 1508.52 138.14 0.17 North Main wich 1 173031 10089.00 32.46 48.74 40.01 48.91 0.000317 3.90 7693.47 7826.51 0.20 121.32 North Main reach 1 172979 2307.00 32.46 42.88 35,42 42.96 0.000168 2.23 1032.30 0.14 North Main 172979 3399.00 32.46 45.28 36.25 45.38 0.000174 2.54 1335.69 132.30 0.14 reach 1 172979 4719.00 32.46 48.54 37,15 46.69 0.000238 3.13 1506.75 138.08 North Main reach 1 172979 10089.00 32.46 48.72 40.01 0.000326 3.95 7487.15 7761.18 0.20 North Main ach 1 172000 2307.00 32.46 42.72 35.31 42.80 0.000161 2.19 1051.44 122.74 0.13 North Main reach 1 172000 3399.00 32.46 45.11 36.12 45.21 0.000165 2.51 1354.36 131.05 0.14 1514.38 North Main reach 1 172000 4719.00 32.46 46.31 36.98 46.46 0.000230 3.12 135,23 0.16 172000 10089.00 32.46 48.50 39.78 48.58 0.000250 3.02 9495.37 6672.24 0.17 North Main each 1 North Main reach 1 170000 2307.00 32.45 42.41 35.13 42.48 0.000153 2.14 1076.99 125.16 0.13 each 1 32.45 North Main 170000 3399.00 44.78 35.89 44 87 0.000159 2.46 1384.33 134.59 0.13 North Main reach 1 170000 4719.00 32.45 45.82 36.72 45.97 0.000267 3.07 1535.70 157.68 0.17 North Main reach 1 170000 10089.00 32.45 47.09 39.37 47.61 0.000946 5.77 1747.77 180.36 0.33 reach t 168000. 2307.00 32.50 42.07 35.26 42.15 0.000186 2.28 1012.50 125.35 0.14 North Main North Main reach i 168000 3399.00 32.50 44.42 36.04 44.52 0.000194 2.54 1591.44 1051.65 0.15 North Main reach 1 168000 4719.00 32.50 45.38 36.87 45.45 0.000225 2.50 4299.17 3008 41 0.16 North Main each 1 168000 10089.00 32.50 46.49 39.57 46.56 0.000269 2.89 8836.64 4275.18 0.17 167722 42.09 North Main reach 1 2307.00 32,50 42.00 35.33 0.000209 2.40 959.80 119.08 0.15 32.50 44.35 36.13 44.46 2.71 1320.56 786.94 0.15 North Mair reach 1 167722 3399.00 0.000208 167722 4719.00 32.50 45.27 45.38 0.000224 2.94 0.16 North Main reach 1 167722 10089.00 0.000237 11166.88 7325.58 0.16 North Main ach 1 187842 2307.00 32.50 41.98 35 33 42 07 0.000210 2 41 957 74 119 02 0.15 North Main reach 1 167642 3399.00 32.50 44.34 36.13 44.45 0.000209 2.72 1308.77 736.99 0.15 4698.82 North Main reach 1 167842 4719.00 32.50 45.24 36.99 45.36 0.000233 2.99 3522.71 0.16 39.78 46.47 0.000243 2.99 10908.07 7302.72 0.17 10089.00 32.50 46.40 North Main reach 1 167642 North Main reach 1 166000. 2307.00 32.51 41.61 35.37 41.70 0.000239 2.45 941.17 126.75 0.16 166000 3399 00 32.51 43.93 36.18 44.04 0.000301 2.68 1266 RF 177 79 0.18 North Main reach 1 North Main reach 1 166000 4719.00 32.51 44.68 37.04 44.85 0.000427 3.28 1901.58 2536.58 0.21 North Main reach 1 166000 10089.00 32.51 46.09 39.79 46.12 0.000173 2.25 13635.27 7848.25 0.14 2.19 1054.25 132.24 0.14 North Main 41.22 41.29 0.000174 reach I 184000 2307.00 31.68 North Main reach 1 184000 3399.00 31.68 43.46 35.13 0.000204 2.30 1960.18 1786.57 0.15 31.68 44.34 44.38 0.000130 1.90 7223.95 6894 OB 0.12 North Mair reach 1 4719.00 35.96 164000 North Mein reach 1 10089.00 31.68 45.90 38.62 45.91 0.000068 1,47 19119.97 7845.29 0.09

|   | Reach   | River Sta  | Q Total   | Min Ch El   | W.S. Elev  | Crit W.S.  | E.G. Elev  | E.G. Slope   | Vel Chni   | Flow Area  | Top Width  | Froude # Chi                             |
|---|---|--|---|---|--|--|--|--|--|--|--|--|
| V350 1000 1   | Ca. V (8.5) V C   | C. M. S. W. W. D. J.   | (cfs)   | (ft)  | (lt)   | (ft)   | (ft)   | (ft/ft)  | (ft/e)   | (sq ft)  | (ft) · · · ·   |  |
| 7 33 4 60 9 00  | 1 88 E 8 E 8 E 8 E 8 E 8 E 8 E 8 E 8 E 8  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 2007.00   |   |  |  |  |  |  |  |  |  |
| orth Main   | reach 1   | 183662   | 2307.00   | 31.34   | 41.16  | 34.03  | 41.23  | 0.000161   | 2.16   | 1070.34  | 129.17   | 0.1                                      |
| rth Main  | reach 1   | 163662   | 3399.00   | 31.34   | 43.38  | 34,80  | 43.47  | 0.000221   | 2.38   | 1833.38  | 1396.09  | 0.                                       |
| rth Main  | reach 1   | 163682   | 4719.00   | 31.34   | 44.28  | 35.62  | 44.32  | 0.000194   | 2.02   | 5611.69  | 4900.34  | 0.                                       |
| rth Main  | reach 1   | 153562   | 10089.00  | 31.34   | 45.87  | 38.29  | 45.89  | 0.000108   | 1.69   | 14768.96   | 6000,00  | 0.                                       |
| and Advantage   | 0.00.0000   | 40000  |   |   |  |  |  |  |  |  | -  |  |
| orth Main   | reach 1   | 163505   | 2307.00   | 31,34   | 41.15  | 34.04  | 41.22  | 0.000161   | 2.16   | 1069.12  | 129.13   | 0.                                       |
| eth Main  | reach 1   | 163806   | 3399.00   | 31.34   | 43.37  | 34.81  | 43.45  | 0.000221   | 2.39   | 1815.78  | 1385.88  | 0.                                       |
| orth Main   | reach 1   | 163605   | 4719.00   | 31.34   | 44.27  | 35.63  | 44.31  | 0.000197   | 2.03   | 5551.04  | 4880.95  | 0.                                       |
| orth Main   | reach 1   | 163605   | 10089.00  | 31.34   | 45.88  | 38.29  | 45.88  | 0.000107   | 1.70   | 14731.47   | 6000.00  | 0.                                       |
| sanger e e  | OFFICE OF S   | 001.000.000.000  |   |   |  |  |  |  |  |  |  |  |
| orth Main   | reach 1   | 162000.  | 2307.00   | 31.35   | 40.87  | 34.07  | 40.95  | 0.000182   | 2.22   | 1037.30  | 131.61   | 0.                                       |
| orth Main   | reach 1   | 162000.  | 3399.00   | 31,35   | 43.24  | 34.84  | 43.25  | 0.000069   | 1.33   | 7103.54  | 5412.21  | 0.                                       |
| orth Main   | reach 1   | 162000.  | 4719.00   | 31.35   | 44.17  | 35.87  | 44.18  | 0.000041   | 1.03   | 12989.84   | 7052.58  | 0.                                       |
| orth Main   | reach 1   | 182000.  | 10089.00  | 31.35   | 45.78  | 38.35  | 45.79  | 0.000031   | 0.97   | 25344.18   | 7884.40  | 0.                                       |
| صفيد للإقصي إدا   |   | MO. Is   |   |   |  |  |  |  |  |  |  |  |
| orth Main   | reach 1   | 180000.  | 2307.00   | 31.35   | 40.54  | 33.79  | 40.61  | 0.000156   | 2.08   | 1110.66  | 138.75   | 0  |
| orth Main   | reach 1   | 160000.  | 3399.00   | 31.35   | 42.94  | 34.50  | 43.03  | 0.000198   | 2.31   | 1482.18  | 385,05   | 0.                                       |
| orth Main   | reach 1   | 160000.  | 4719.00   | 31.35   | 44.01  | 35.25  | 44.04  | 0.000120   | 1.90   | 6670,61  | 5945.27  | 0  |
| orth Main   | reach 1   | 160000.  | 10089,00  | 31.35   | 45.69  | 37.75  | 45.70  | 0.000084   | 1.51   | 18922.22   | 7834.74  | 0.                                       |
|   |   | 4 8 5  |   |   |  |  |  |  |  |  |  |  |
| orth Main   | reach 1   | 158000.  | 2307.00   | 31.36   | 40.16  | 33.99  | 40.24  | 0.000213   | 2.33   | 990.30   | 132.18   | 0.                                       |
| orth Main   | reach 1   | 158000.  | 3399.00   | 31.36   | 42.48  | 34.74  | 42.59  | 0.000245   | 2.58   | 1317.82  | 167.67   | 0  |
| orth Main   | reach 1   | 158000.  | 4719.00   | 31.36   | 43.72  | 35.53  | 43.77  | 0.000155   | 2.06   | 5880.24  | 5303.20  | 0  |
| orth Main   | reach 1   | 158000.  | 10089.00  | 31.38   | 45.56  | 38.10  | 45.57  | 0.000067   | 1.47   | 18865.85   | 7881.97  | 0.                                       |
| 2.70  | 1   |  |   | 31.50   | 43.56  | 30,10  | 40.37  | 0.00007  | 1.4/   | 10000.00   | 1001.01  |  |
| orth Main   | reach 1   | 157191   | 2307.00   | 31.36   | 39,95  | 34.07  | 40.05  | 0.000265   | 2.56   | 899.49   | 121.73   | -  |
| orth Main   | reach 1   | 157191   | 3399.00   | 31.36   | 42.26  | 34.85  | 42.38  |  | 2.56   | 1191.17  |  | 0  |
| orth Main   |   | 157191   | 4719.00   |   |  |  |  | 0.000250   |  |  | 130.88   | 0  |
|   | reach 1   | 157191   | 10089.00  | 31.36   | 43.43  | 35.68  | 43.59  |  | 3.28   | 2485.10  | 3244.16  |  |
| orth Main   | reach 1   | 103 191  | 10089.00  | 31.36   | 45,48  | 38.39  | 45.50  | 0.000105   | 2.09   | 15980.93   | 8000.00  | 0  |
| auth Mal-   | Lines e   | 157140   | 200 7000  |   |  |  | 40.00  |  |  |  |  |  |
| orth Main   | reach 1   |  | 2307.00   | 31.36   | 39.93  | 34.07  | 40.04  | 0.000267   | 2.57   | 897.77   | 121.68   | 0  |
| orth Main   | reach 1   | 157140   | 3399.00   | 31,38   | 42.24  | 34.85  | 42.37  |  | 2.86   | 1189.43  | 130,80   |  |
| orth Main   | reach 1   | 157140   | 4719,00   | 31.36   | 43,41  | 35.68  | 43.57  | 0.000298   | 3.29   | 2411.17  | 3182.36  | 0  |
| orth Main   | reach 1   | 157140   | 10089.00  | 31,36   | 45.47  | 38.39  | 45.50  | 0.000105   | 2.10   | 15935.43   | 8000.00  | 0  |
| - 1 Table 1 - 1 - 1   | Control Control   | 1 1 1 1 1 1 1  |   |   | l  |  |  |  |  |  |  |  |
| iorth Main  | reach 1   | 158000.  | 2307.00   | 31.36   | 39.61  | 34.00  | 39.72  | 0.000287   | 2.63   | 877.93   | 120.95   | 0  |
| orth Main   | reach 1   | 158000.  | 3399.00   | 31.36   | 41.93  | 34.76  | 42.06  | 0.000291   | 2.91   | 1168.71  | 139,48   |  |
| lorth Main  | reach 1   | 156000.  | 4719.00   | 31.36   | 43,13  | 35.58  | 43.22  | 0.000279   | 2.73   | 3887.73  | 3799.71  | D  |
| lorth Main  | reach 1   | 158000.  | 10089.00  | 31.36   | 45,38  | 38.25  | 45.39  | 0.000076   | 1.60   | 18262.55   | 7828.38  | 0.                                       |
| 44.44   | Salatin de la   | Tamilu   |   |   |  |  |  |  |  |  |  |  |
| lorth Main  | reach 1   | 154644   | 2307.00   | 31.37   | 39.22  | 33.88  | 39.33  | 0.000291   | 2.61   | 883.60   | 124.19   | 0.                                       |
| forth Main  | reach 1   | 154644   | 3399.00   | 31.37   | 41.56  | 34.59  | 41.69  |  | 2.88   | 1181.79  | 131.06   |  |
| iorth Main  | reach 1   | 154644   | 4719.00   | 31.37   | 42.58  |  | 42.78  |  | 3.58   | 1317.60  | 134.07   |  |
| lorth Main  | reach 1   | 154844   | 10089.00  | 31.37   | 45.12  | 37.92  | 45.21  | 0.000288   | 3.10   | 9933.46  | 7776.22  | 0  |
|   |   |  |   |   | 10.12  | 57.32  |  | 0.000200   | 5.10   | 0200.40  |  |  |
| lorth Main  | reach 1   | 153231   | 2307.00   | 31.03   | 38.73  | 33.86  | 38.86  | 0.000388   | 2.88   | 805.79   | 124.08   | 0  |
| lorth Main  | reach 1   | 153231   | 3399.00   | 31.03   | <del></del>  | 34.63  | 41.28  |  | 3.04   | 1117.98  |  |  |
| iorth Main  | reach 1   | 153231   | 4719.00   | 31.03   |  |  | 42.21  |  | 3.83   | 1233.24  | 138.95   |  |
| orth Main   | reach 1   | 153231   | 10089.00  | 31.03   |  |  | 44.52  |  | 5.68   | 3724.72  | 5113.23  |  |
| OTHE MAST   | TOOLST !  | 155251   | 10008.00  | 31.03   | 44.09  | 30.00  | 44.52  | 0.001082   | 3.00   | 3/24./2  | 3113.23  |  |
|   | 1   | 450504   | 2307.00   |   |  | ****   |  |  |  |  |  |  |
| lorth Main  | reach 1   | 152561   |   | 31.03   | +  |  | 38.57  |  | 3.05   | 756.27   | 121.07   |  |
| forth Main  | reach 1   | 152561   | 3399.00   | 31.03   | +  |  | 41.05  |  | 3.17   | 1071.04  | 133.79   |  |
| lorth Main  | reach 1   | 162561   | 4719.00   | 31.03   |  |  | 41.87  |  | 4.04   | 1168.70  |  |  |
| lorth Main  | reach 1   | 152561   | 10089.00  | 31.03   | 43.35  | 38.16  | 43.76  | 0.001215   | 5.74   | 3935.45  | 4412.17  | 0  |
|   | 9 (40.36) 1 1 1 1   | A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                      | <b></b> _   |   |  |  |  | ļ  |  |  |  | <del> </del>                             |
| forth Main  | reach 1   | 152553   | Inline Weir   |   | <del></del>  |  | <b></b>  |  |  |  |  |  |
| <u> </u>  | <u> 3. Pr. 37. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1</u>                                |  | <b></b>   |   | <b></b>  |  |  | <u> </u>   |  |  |  |  |
| lorth Main  | reach 1   | 152515   | 2307.00   | 28.25   |  |  | 38,49  |  |  |  |  |  |
| lorth Main  | reach 1   | 152515   | 3399.00   |   | +  |  | 40.98  |  | 2.43   |  |  |  |
| lorth Main  | reach 1   | 182515   | 4719.00   | 28.25   |  | 32.65  | 41.76  |  | 3.15   |  | 139.59   |  |
| forth Main  | reach 1   | 152515   | 10089.00  | 28.25   | 43.34  | 35.38  | 43.61  | 0.000823   | 4.62   | 4481.01  | 4520,77  |  |
| 11271   |   | 4 1.11 1.25  |   |   |  |  |  |  |  |  |  |  |
| lorth Main  | reach 1   | 152000.  | 2307.00   | 28.25   | 38,34  | 31.07  | 38.42  | 0.000186   | 2.20   | 1050.85  | 126.12   | 2 0                                      |
| lorth Main  | reach 1   | 152000.  | 3399.00   | 28,25   | 40.81  | 31.68  | 40.90  | 0.000165   | 2.47   | 1375.07  | 138.88   |  |
| lorth Main  | reach 1   | 152000.  | 4719.00   | 28.25   | 41,47  | 32.74  | 41.63  | 0.000264   | 3.22   | 1486.31  | 139.74   |  |
| TOTAL REPORT  | reach 1   | 152000.  | 10089.00  | 28.25   |  |  | 43.28  |  | 3.84   |  | 7269.86  | 3  |
|   |   | 100  | I   |   |  |  |  |  |  |  |  |  |
|   | 1 3000  | 1  |   | 28.25   | 38.28  | 30.91  | 38.35  | 0.000150   | 2.14   | 1080.01  | 124.11   |  |
| ionth Main  | 1 (34,35)   | 151600   | 2307.00   |   |  |  |  |  | 2.44   |  |  |  |
| lorth Main<br>Iorth Main  | reach 1   | 151600<br>151600   | 2307.00   |   | 40.75  | 31.67  |  |  |  |  |  |  |
| ionth Main<br>Ionth Main<br>Ionth Main  | reach 1   | 151800   | 3399.00   | 28.25   |  |  | 41 53  |  | 3.10   | 1478.5R  |  | 3 (                                      |
| ionth Main<br>Ionth Main<br>Ionth Main<br>Ionth Main  | reach 1   | 151800<br>151800   | 3399.00<br>4719.00  | 28.25<br>28.25  | 41.37  | 32.49  |  | 0.000248   |  |  | 134.20   |  |
| Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main  | reach 1   | 151800   | 3399.00   | 28.25<br>28.25  | 41.37  | 32.49  |  | 0.000248   | 3.19<br>3.45   |  | 134.20   |  |
| Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main  | reach t<br>reach 1<br>reach 1<br>reach 1  | 151800<br>151800<br>151800   | 3399.00<br>4719.00<br>10089.00  | 28.25<br>28.25<br>28.25   | 41.37<br>43.03   | 32.49<br>35.18   | 43.14  | 0.000248   | 3.45   | 9075.62  | 134.20<br>7991.21  |  |
| iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main  | reach 1<br>reach 1<br>reach 1<br>reach 1  | 151800<br>151800<br>151800   | 3399.00<br>4719.00<br>10089.00<br>2307.00   | 28.25<br>28.25<br>28.25<br>28.25  | 41.37<br>43.03<br>38.27  | 32.49<br>35.18<br>30.91  | 43.14<br>38.34                                     | 0.000248<br>0.000267<br>0.000151   | 3.45<br>2.14   | 9075.62  | 134.20<br>7991.21<br>124.01  | 7  |
| iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 151800<br>151800<br>151800<br>151516<br>151516                               | 3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00  | 28.25<br>28.25<br>28.25<br>28.25<br>28.25   | 41.37<br>43.03<br>38.27<br>40.73   | 32.49<br>35.18<br>30.91<br>31.67                                     | 43.14<br>38.34<br>40.83                            | 0.000248<br>0.000267<br>0.000151<br>0.000153   | 2.14<br>2.44   | 9075.62<br>1078.41<br>1394.15  | 134.26<br>7991.21<br>124.01<br>132.11  | 7 0                                      |
| Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main                      | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                         | 151800<br>151800<br>151800<br>151800<br>151516<br>151516                     | 3399,00<br>4719,00<br>10089,00<br>2307,00<br>3399,00<br>4719,00                                   | 28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25   | 38.27<br>38.27<br>41.35<br>38.27<br>40.73                                    | 32.49<br>35.18<br>30.91<br>31.67<br>32.49                            | 43.14<br>38.34<br>40.83<br>41.50                   | 0.000248<br>0.000267<br>0.000151<br>0.000153<br>0.000249                                     | 3.45<br>2.14<br>2.44<br>3.20                         | 9075.62<br>1078.41<br>1394.15<br>1475.68   | 134.26<br>7991.21<br>124.01<br>132.11<br>134.11                                    | 7 (                                      |
| Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main                      | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 151800<br>151800<br>151800<br>151516<br>151516                               | 3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00  | 28.25<br>28.25<br>28.25<br>28.25<br>28.25   | 38.27<br>38.27<br>41.35<br>38.27<br>40.73                                    | 32.49<br>35.18<br>30.91<br>31.67<br>32.49                            | 43.14<br>38.34<br>40.83<br>41.50                   | 0.000248<br>0.000267<br>0.000151<br>0.000153<br>0.000249                                     | 3.45<br>2.14<br>2.44<br>3.20                         | 9075.62<br>1078.41<br>1394.15<br>1475.66   | 134.26<br>7991.21<br>124.01<br>132.11<br>134.11                                    | 7 (                                      |
| Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main<br>Iorth Main                      | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                 | 151800<br>151800<br>151600<br>151516<br>151516<br>151516<br>151518           | 3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00                                   | 28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25  | 38.27<br>38.27<br>40.73<br>41.35<br>43.00                                    | 32,49<br>35,18<br>30,91<br>31,67<br>32,49<br>35,18                   | 38.34<br>40.83<br>41.50<br>43.12                   | 0.000248<br>0.000267<br>0.000151<br>0.000153<br>0.000249<br>0.000276                         | 3.45<br>2.14<br>2.44<br>3.20<br>3.51                 | 9075.62<br>1078.41<br>1394.15<br>1475.66<br>8853.76                                  | 134,24<br>7991,21<br>124,01<br>132,11<br>134,11<br>7990,8                          | 77 (0                                    |
| orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main<br>orth Main                              | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 151800<br>151800<br>151800<br>151600<br>151516<br>151516<br>151516<br>151518 | 3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00                       | 28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25<br>26.25 | 41.97<br>43.03<br>38.27<br>40.73<br>41.35<br>43.00<br>2 38.03                | 32,49<br>35,18<br>30,91<br>31,67<br>32,49<br>35,18                   | 38.34<br>40.83<br>41.50<br>43.12                   | 0.000248<br>0.000267<br>0.000151<br>0.000153<br>0.000249<br>0.000276                         | 3.45<br>2.14<br>2.44<br>3.20<br>3.51<br>2.19         | 9075.62<br>1078.41<br>1394.15<br>1475.66<br>8853.76                                  | 134.24<br>7991.2<br>124.0<br>132.11<br>134.11<br>7990.8                            | 77 (0)                                   |
| orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main orth Main | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 151800<br>151800<br>151800<br>151800<br>151516<br>151516<br>151518<br>150000 | 3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00<br>2281.00<br>3386.00 | 28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>27.96<br>27.96  | 41.37<br>43.03<br>38.27<br>5 40.73<br>41.35<br>6 43.00<br>2 38.03<br>2 40.48 | 32.49<br>35.18<br>30.91<br>31.67<br>32.49<br>35.18<br>30.78<br>31.80 | 43.14<br>38.34<br>40.83<br>41.50<br>43.12<br>38.10 | 0.000248<br>0.000267<br>0.000151<br>0.000153<br>0.000249<br>0.000276                         | 3.45<br>2.14<br>2.44<br>3.20<br>3.51<br>2.19<br>2.46 | 9075.62<br>1078.41<br>1394.15<br>1475.66<br>8853.76<br>1042.32<br>1389.30            | 134.24<br>7991.2<br>124.01<br>132.11<br>134.11<br>7990.8                           | 77 ( )                                   |
| Iorth Main<br>Iorth Main<br>Iorth Main  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 151800<br>151800<br>151800<br>151600<br>151516<br>151516<br>151516<br>151518 | 3399.00<br>4719.00<br>10089.00<br>2307.00<br>3399.00<br>4719.00<br>10089.00                       | 28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>28.25<br>27.96<br>27.96  | 41.37<br>43.03<br>38.27<br>40.73<br>41.35<br>43.00<br>2 38.03<br>2 40.48     | 32.49<br>35.18<br>30.91<br>31.67<br>32.49<br>35.18<br>30.78          | 43.14<br>38.34<br>40.83<br>41.50<br>43.12<br>38.10 | 0.000248<br>0.000287<br>0.000151<br>0.000153<br>0.000249<br>0.000276<br>0.000187<br>7.000182 | 3.45<br>2.14<br>2.44<br>3.20<br>3.51<br>2.19<br>2.46 | 9075.62<br>1078.41<br>1394.15<br>1475.66<br>8853.76<br>1042.32<br>1389.30<br>1839.59 | 134.24<br>7991.2<br>124.0<br>132.11<br>134.11<br>7990.8<br>126.4<br>345.2<br>750.7 | 77 00 00 00 00 00 00 00 00 00 00 00 00 0 |

Plan: P.10 D.2 (Continued)
| Reach | River Sta | Q Total HEC-DAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi Rive (cfs) (ft) (fVs) (ft) (ff) (ft/ft) (aq ft) (ft) (ft) each 1 2281.00 North Main 48000 27.14 37.79 0.000144 37.72 30.06 2.08 1095.27 128.02 0.13 North Main reach 1 148000 3386 00 27.14 40.29 30.87 40.31 0.000086 1.57 5233.64 4342.24 0.10 North Main reach 1 14RDGO 4598 00 27 14 40 R4 31.67 40.67 0.000107 1.79 7083.73 6085.64 0.11 34.46 North Main reach 1 148000 9932:00 27.14 41.70 41.72 0.000118 1.98 15046.88 7841.29 0.12 147159 27.14 37.67 North Main 2281.00 1137.14 reach 1 37.61 0.000132 2.01 131.26 0.12 29.93 North Main 147159 3366.00 27.14 reach 1 40.23 7379.08 40.22 30,70 0.000096 1,18 7961.33 0.09 147159 4598.00 27.14 40.57 31.47 0.00009 10191.21 7991.18 0.09 1,14 North Main each 1 147159 9932.00 41.64 27.14 41.63 34.15 0.000080 1.21 18623,51 8000.00 0.09 North Main reach 1 147111 2281.00 27.14 37.60 29.93 37.66 0.000132 2.01 1136.29 131.23 0.12 North Main reach 1 147111 3366.00 27.14 40.22 30.71 40.23 0.000097 1.19 7336.47 7960.36 0.09 North Main 4598.00 reach 1 147111 27.14 40.57 31.48 40.58 0.000092 1,15 10154.70 7990.79 0.09 North Main reach 1 147111 9932.00 41.62 41.63 0.09 27.14 34.15 0.00008 1.21 18592.20 8000.00 reach 1 North Main 146000 2281.00 27.13 37.51 0.00015 1077.41 0.13 37.44 29.99 2.12 127.15 North Main reach 1 146000. 3366.00 27,13 40.04 30.77 40.09 0.000142 2.03 3253.79 3986.43 0.12 North Main reach 1 148000 4598.00 27.13 40 49 31.56 40.50 0.000054 1.28 11281 66 7814 65 0.08 North Main each 1 146000 9932.00 27.13 41,54 34.29 41.55 0.00008 1.43 19524.10 7831.82 0.08 North Main reach t 144000 2281.00 27.12 37.10 30.01 0.000173 2.24 1020.02 122.72 0.14 North Main 144000 39.74 3366.00 27.12 39.65 30.82 0.000222 2.45 1466.41 580.36 0.15 North Main reach 1 144000 4598.00 27.12 40.33 31.60 40.35 0.000103 1.73 7889 59 7790.61 0.11 North Main mach 1 144000 9932 00 27.12 41.38 34.36 41.39 0.000103 1.82 16072.50 7820.17 0.11 1017.42 North Main reach 1 143293 2281.00 27.12 36.97 30.01 37.05 0.000179 2.24 125.33 0.14 North Main 3366.00 27.12 39.47 30.80 39.57 1361,80 reach 1 143233 0.000230 2.47 175.32 0.16 4598.00 North Main reach 1 143233 27.12 40.27 31.60 40.28 0.00007 1.13 10307.89 7765.98 0.09 North Main 34.35 reach t 143233 9932.00 27.12 41.31 41.32 0.00008 1.16 18588.82 8000.00 0.09 27.12 North Main reach 1 143179 2281.00 36.96 30.01 37.04 0.000180 2.24 1016.17 125.28 0.14 North Main reach 1 143179 3366.00 27.12 39.46 30.80 39.55 0.000230 2.48 1359,58 174.90 0.16 4598.00 27.12 40.27 31.59 40.28 North Mair ech 1 143179 0.00007 1.14 10270.27 7763.70 0.09 North Main reach 1 143179 9932.00 27.12 41.31 34.35 41.32 0.00008 1.20 8000.00 0.09 ach 1 North Main 142000 2281.00 27 13 36.71 30.16 36 80 0.000223 2.42 943 33 122 4R 0.15 North Main reach 1 142000. 3366.00 27.13 39.15 30.98 39.26 0.000262 2.65 1268.08 161.90 0.17 North Main reach 1 142000 4598.00 27.13 40.07 31.82 40.13 0.000198 2.36 4703.67 4001.63 0.15 142000 9932.00 27.13 41.24 0.000048 21601.02 North Main reach 1 34.63 41.24 1.19 7847.22 0.07 North Main 141221 2281.00 26.68 36.55 29.69 0.000205 118.75 0.15 reach 1 2.38 141221 3366.00 26.68 38.92 30.52 39.01 0.000389 2.32 1449.71 2603.26 0.19 North Main 141221 4598.00 26.68 39.99 31.37 40.00 0.000115 1.38 7115.00 4132.34 0.10 each 1 North Main each 1 141221 9932.00 26.68 41.22 34.23 41.22 0.000026 0.74 26848.34 8000.00 0.05 141154 36.53 2281.00 0.15 North Main reach t 26.68 29.69 36.62 0.000206 2.39 955.23 118.69 38.96 1446.59 North Main 141154 3366.00 26.68 38.90 30.52 0.000404 2.33 2574.63 0.19 reach t 141154 4598.00 26.68 39.98 31.36 1.38 4131.40 0.10 141154 26832.43 0.05 North Main each 1 9932.0 26.6 41.22 34.23 41.22 0.00002 0.74 8000.00 2281.00 North Main anch t 140000 26.64 36.29 29.52 36.38 0.000210 2.41 944.67 116.71 0.15 38.63 2146.10 0.16 North Main reach t 140000 3366.00 26.64 38.54 30.34 0.000233 2.51 1851.00 4598.00 26.64 39.80 31.17 39.84 5675.49 3750.40 0.13 North Mair reach 1 140000 0.000151 1.97 140000 9932.00 26,64 41.18 34.01 41.19 0.00003 1.02 24164.03 7885,12 0.06 North Mair reach 1 North Main reach 1 138000 2281.00 25 62 35.93 28.53 36.01 0.000182 2.18 1044.67 123.81 0.13 North Main reach 1 139000 3366.00 25 62 38.08 29.35 39.18 0.000220 2 53 1329.94 171.47 0.15 4598.00 2218.58 North Main reach 1 138000 25.62 39.30 30.15 39.43 0.000286 2.87 2234.13 0.18 North Main reach 1 138000. 9932.00 25.62 41.08 32.96 41.10 0.000060 1.42 19470.83 7845.00 0.08 2317.00 25.62 35.62 28.34 2.17 1070.12 125.08 0.13 North Main reach 1 136000 35.69 0.000158 North Main 3394.00 25.62 37 69 29.09 37.79 0.000176 2.54 1337.11 132 88 0.14 138000 North Main each 1 138000 4615.00 25.62 38.75 29.85 38.90 0.000241 3.12 1480.44 136.89 0.17 North Main each 1 136000 9953.00 25.62 40.91 32.53 40.93 0.000111 1.88 14263.74 7773.66 0.11 2317.00 25.63 35.61 28.39 35.68 0.000159 2.17 1069.75 126.34 0.13 135932 North Main reach 1 North Main 25,63 37.68 37.78 0.000176 1339.02 0.14 135932 3394,00 29.15 2.53 133.91 reach t 135932 25.63 4815.00 38.74 29 93 38 89 0.000241 3,11 1483 04 137 79 0.17 North Main reach t North Main 135932 9953.00 25.63 40.91 32.61 40.93 0.000100 2.00 14264.74 7117.93 0.11 reach 1 0.13 0.000159 126.31 2317.00 35.60 35.68 2.17 1068.83 North Main reach 1 135888 25.63 28.39 135888 3394.00 25.63 37.67 29.15 37.77 0.000176 2.54 1337.94 133.88 0.14 North Main reach t 0.00024 1481.61 137.75 0.17 North Main 135888 4615.00 25.63 38.73 29.93 38.88 3.11 reach 1 40.93 0.000100 14225.65 7105.28 0.11 135888 9953.0 25,63 40.90 32.60 2.00 North Main reach 1 991.42 0.15 North Main each 1 134000 2317.00 25.63 35.25 28.74 35.34 0.000199 2.34 124.12 37.38 North Main reach 1 134000 3394.00 25,63 37.27 29.52 0.000240 2.68 1409.26 613.92 0.16 0.18 4615.00 38.23 30.26 38.35 0.000312 2.94 2427.21 1517.09 North Main reach t 134000 25,63 40.65 9807.53 0.16 9953.00 25.63 32.91 0.000224 134000 North Main reach 1 North Main reach 1 132000 2313.00 25.57 34 85 28.33 34.94 0.000202 2 31 1001.51 130.01 0.15 132000 3388 00 25 57 36.81 29 tn 36.93 0.000219 2 68 1265.53 139.38 0.16 North Main each 1

North Main

reach 1

132000.

454B.00

25.57

37.56

29.82

37.73

0.000313

3.32

1371.25

454.02

HEC\_DAS Filver Plan P 10.0 2 (Continued) RiverSta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Chni F.G. Slope Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (10) (ft) (N/II) (ft/s) (sq ff) North Main 132000 reach t 25.5 39.36 32.53 39 8 5.68 0.000931 2233 92 2237.51 0.33 North Main mach t 150750 2313.00 25 57 34.57 26.35 34.66 0.000236 934.90 122.58 0.16 North Mair reach 1 130750 3388.00 25.57 36.50 29.13 36 63 0.000258 2.87 1179.39 130.44 0.17 North Main reach t 130750 4548.00 25.57 37.12 29.87 37 29 0.000408 3 44 1659,14 732.48 0.21 North Mein 130750 9933.00 25.57 38.17 32.63 38.65 0.001085 5.99 2654.61 1819.14 0.35 North Main aarb 1 130806 2313.00 25.57 34.55 28.35 34.65 0.000238 2.48 933.27 122.59 0.16 North Main manh 1 130806 3388.00 36.61 25.57 36.49 29.13 0.000257 2.88 1177.51 130,38 0.17 North Main reach 1 130696 454B 00 25.57 37.10 29.87 37.28 0.000410 3.45 1648.87 718.67 0.21 North Mair reach 1 130696 9933 00 25 57 38.09 32.63 38 60 0.001141 6.11 2563.57 1757.13 0.36 North Main 129441 2313.00 24.36 34.30 27.38 34.38 0.000189 2.32 994.93 119 90 0.14 North Main 3388.00 24.36 36.21 28.18 36.33 0.030216 2.75 1230 48 126 65 0.16 Morth Mair reach 1 12944 4548.00 24.36 37.10 28.91 37.11 0.000036 1.17 11442.79 4859.87 0.06 24.36 North Main ach 1 129441 9933.00 38.20 31.72 38.21 0 000065 1.51 17237,48 5695.86 0.09 North Make reach 1 126185 2313 00 24.36 34.08 27.08 34 16 0.000170 2 22 1040.70 123.70 0.14 North Main 128185 reach 1 3388.00 24.36 35,96 27.82 36.06 C 000197 2.65 1278.79 129.97 0.15 North Main 4548.00 reach 1 128185 24.36 37.01 28.54 37.03 n.000090 1.55 6279.87 3702.95 0.10 Yorth Main 128185 9933.00 38,02 24.36 31.24 38.05 .00018 2.28 8829.91 3977.50 0.14 34.14 North Main reach 1 128137 2313.00 24.36 34 06 27 08 0.000170 2.23 1038.95 123.65 0.14 North Main reach t 128137 3386.00 24.38 35,94 27.82 36.05 0.000198 2.65 1278.65 129.92 0.15 North Mair 4548.00 128137 24.36 38.85 28.54 37.01 0.000382 3.23 1415.11 199 00 0.20 North Main ech 1 126137 9933.00 24.36 38.00 31.24 36.04 0.000191 2.29 8790.33 3975.88 0.14 North Main roach 1 128000 2313 00 24 36 34 04 27,16 34.12 0.000182 2.26 1021.91 125.72 0.14 North Main reach 1 128000 3388 00 24.36 35 91 27 94 38.02 0.000244 2.67 1271.09 152.40 0.16 North Main reach 1 128000 4548.00 24.36 36.80 28.68 36.96 0.000365 3.20 1484 34 384 78 0.20 North Mair ach t 128000 9933.00 24.36 37.97 31.43 38.01 0.000174 2.33 8945.55 3948 50 0.14 Morth Mak 126275 reach 1 2313.00 24.02 33.74 26.97 33.81 0.000170 2.17 1065.23 132.90 0.14 126275 North Main reach 1 3388.00 24.02 35.56 27.74 35.65 0.000180 2.50 1799.83 1236.16 0,14 North Malo reach 1 128275 4548 OC 24.02 36.37 28 48 28 48 0.000214 2.65 3508.97 3209.27 0.15 4793.96 North Main reach 1 126275 9933.00 24.02 37.50 31.09 37.61 0.000322 3.51 8047.61 0.19 North Main 126253 reach 1 2313.00 24.02 33.73 0.000170 2.17 26.96 33.60 1063 75 132.87 G 14 North Mair reach 1 126253 3388.00 24.02 35.58 27.73 35.65 0.000180 2.50 1798.58 1233.06 0.14 North Main reach 1 4548.0 24.02 36.37 28.46 36.46 0.000215 2.65 3492.70 3202.08 0.15 North Main anch 1 126259 9933.00 24.02 37.49 3.52 0.000324 8009.42 4783,68 0.19 North Main reach 1 126194 2313.00 24 02 33.70 27.12 33 79 0.000218 2 42 954 18 121.59 0.15 North Main 126194 reach 1 3388.00 24.02 35.57 27.93 35.62 0.000152 2 17 3480.96 2551.98 0.13 North Main reach 1 126194 4548.00 24.02 38.40 28,68 36.43 0.000109 1.72 7454.73 4890.51 0 11 126194 37.54 9933.00 24.02 31.53 37.56 0.000134 2.09 13652,36 6032.87 0.12 North Main earts 1 126142 2313.00 24 02 33 A 27 13 33 77 0.000220 2.43 951.92 121.51 0.15 North Main reach 1 126142 3388.00 24.02 35.56 27 93 35.62 0.000152 2.17 3487 46 2546 6 0.13 North Main reach 1 126142 4548.00 24.02 36.40 28.69 36.43 0.000109 1.72 7444 82 4888 31 0.11 North Main 126142 9933.00 37.54 reach 1 24.02 31.53 37.56 0.000134 2.09 13652 36 6032 87 0.12 North Main each 1 126000 2313.00 24.02 33.66 26.84 33.74 0.000180 2.24 1032.35 127.86 0.14 1.82 North Main reach f 126000 3388.00 24.02 35.55 27 60 35 59 0.000127 3919.38 0.12 North Main reach 1 120000 4548.00 24.02 36.40 28 34 36.41 0.000054 1 25 9778 94 5547.27 0.08 North Main reach 1 126000. 9933.00 24.02 37.54 31.04 37.55 0.00008 1.67 16242 63 7093.80 0.10 North Main reach 1 124276 2313.00 23.63 33.29 26.75 33.39 2.54 0.000236 114.22 912.19 0.16 Riveth Admir reach 1 124276 3388.00 35.13 27.57 23.63 35.27 0.000270 3.00 1298.28 1129.73 0.17 North Main reach 1 124276 4546.00 23.63 36 D4 28 35 38.21 0.000325 3.43 1890.82 4741.54 0.19 North Main reach 1 124276 9933.00 23.63 36.47 31.24 37.12 0.001247 6.85 2388.18 5675.44 0.38 North Main 124185 33.27 33.37 2313.00 23.63 26,71 reach 1 0.000230 113.65 2.52 918,31 0.16 North Main 124185 3368.00 27.51 35.24 0.000266 2.99 1132.66 1102.97 0.17 North Main reach 1 124185 4548.00 23 63 38.09 28,28 36.15 0.000198 2.43 5591.42 0.15 North Main reach 1 124185 9933.00 23.63 36.81 31,19 36.90 0.000372 3.41 8550.96 6614 D 0.20 North Main 124085 2313.00 33.25 26.74 23.63 33,35 0.000236 2.55 907 84 112.40 0.16 North Main reach 1 124085 23.63 35.07 27.54 0.000274 3388.00 35.21 3.03 1118.08 1770.30 0.17 North Main 36.08 reach 1 124085 4548.00 23.63 28.33 36.13 0.000182 2.35 5338.94 5468.38 0.14 North Main reach 1 124085 9933.00 23.63 36.78 31,19 36.67 0.000347 3.42 8826.90 6334.04 0.20 33.23 North Main reach 1 124000 2313.00 23.63 26.74 33.33 0.000233 2.50 925 64 117 68 0.16 North Main reach 1 124000. 3368.00 23.63 35.09 27.56 35.16 0.000211 2.53 2503.47 2132.34 0.15 North Main 4548.00 36.07 28.33 124000 23.63 36.11 0.000171 2.06 5483.20 4713,30 0.13 North Main 124000 36.76 36.84 reach 1 9933.00 23.63 31.20 0.00036 3,15 B614.46 6231,51 0.20 North Mair reach 1 122908 2313.00 23.63 32.99 26.64 33:08 0.000228 2.43 950.36 124.43 0.16 North Main reach 1 122908 3388.00 23.83 34.79 27 42 34 92 0.000258 2 87 1182.10 2108.17 0.17 North Main 28,17 reach: 1 122908 4548.00 23.63 35.65 35.84 0.000355 3.51 1297.46 2997.55 0.20 North Main reach 1 122908 9933.00 23.63 36.56 36.59 30.95 0.000136 2.26 14238.32 7038.17 0.12

North Main

reach 1

122857

2313.00

23.63

32.97

28.64

33.07

0.000229

2.44

948.87

124.37

Plan: P 100 2 (Continued)
Reach River Sta G Total HEC DAS Rive Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cle) (11) (h) North Main (ft) each i 122857 (ft) (ft/ft) (fl/a) (sq ft) 23.63 (ft) 34.78 27.42 North Main nach 1 34.90 0.00025 122857 2.87 4548.00 1180.29 23.63 2092.60 35.62 28.17 0.17 North Main 35.81 reach 1 0.000358 122857 3.52 9933.00 1293.61 2969.64 23.63 36.56 30.95 0.20 36.59 0.000137 14185.65 7030.15 North Main 0.13 each 1 122000 2313.00 23.45 32.79 North Male reach 1 26.44 32.86 0.000218 122000 2.41 3388.00 960.78 23.45 123.09 34.56 0.15 North Mair 27.21 34.69 reach t 0.000245 1365.16 122000 2.83 4548.00 23.45 35.57 811.22 0.16 27.92 North Main 35.60 0.000113 122000 9933.00 1.89 7028.61 5370.83 23.45 36.41 0 11 30.65 36.45 0.000197 2.45 11769 42 0.15 North Main each 1 120000 2313.00 23.41 32.33 26.14 North Main 32.42 reach 1 0.000236 120000. 2.46 940.48 3388 00 23.41 124 0 34.04 0.16 26.90 North Main 34.17 reach 1 0.000274 2.92 120000 1158.58 4548.00 131.34 23,41 0.17 35.01 27 65 35.20 North Main 0.000392 ach 1 120000 3.53 1288.99 9933.00 23,41 144.40 0.21 36.05 30.37 36.08 0.000170 2.18 11450.86 5695.62 0.14 North Main each 1 118000 2313.00 23.26 31.82 26.00 North Main 31.92 each 1 0.000265 118000 3388.00 2.58 904.04 122.54 23.26 33 44 0 17 26.75 reach 1 North Main 33.59 0.000310 118000 3.06 4548.00 1107.62 128.84 23.26 27.47 34.12 0.18 North Main 34.34 reach 1 0.000464 118000 3.80 9933.00 1196,47 135.83 23.26 35.41 30.18 0.23 35.53 0.000496 3.73 6839.85 4548.83 0.23 North Main ech 1 116000. 2327,00 23 27 31.25 North Main reach 1 25.90 31,36 0.00029 116000 2 62 887.92 3399.00 23.27 126.97 0.17 32.80 North Main 26.62 32.95 0.000329 reach 1 118000 3.06 1496.19 4547.00 2451.56 23.27 33.40 0.19 27.30 North Main each 1 33,51 0.000354 116000 9936.00 2.95 3718 48 4123.05 23.27 34.81 29.89 0.19 34.85 0.000238 2.55 10749.16 6182.51 0.16 North Main reach 1 114000 2327 00 21.89 30.77 North Main 24 65 30.85 0.000214 reach 1 114000. 2.36 990.86 3399.00 21.89 153.85 32.37 0.15 North Main 25 36 32.43 reach 1 0.000191 114000 2.21 4547.00 3684.46 21.89 4230.68 0.14 33.05 North Main 26.04 33.09 each 1 0.000130 114000 1.91 7081.79 9936.00 5610,81 21.89 34.55 0.12 28.61 34.57 0.000089 1,74 16171.49 6540,27 0.10 North Main mach t 113338 2327.00 21.88 30.61 24.72 North Main 30.70 reach 1 0.000241 2.44 113338 3399 00 953.88 129.86 21.88 0.16 North Mai 32.13 25.44 32.26 reach 1 0.000289 113338 2.94 1155.76 4547.00 21.88 2285.85 32.71 0.18 North Mair 26 13 32.92 reach 1 113338 0.000423 3.68 1235,66 9936.00 21.88 4884.40 34.51 0.22 28.76 34.52 0.000061 1.33 18993.5 7247.56 0.08 North Main reach 1 113284 2327.00 21.88 30.60 24.66 North Main 30.69 0.000227 reach 1 2.38 113284 3399.00 977.40 132.17 21.88 32.12 0.15 25.37 North Main reach 1 32.25 0.000274 2.87 113284 4547.00 21.88 1182.63 2951.45 32.70 26.06 0.17 North Main 32.90 0.000403 3.60 113284 9936.00 21.88 1263.26 5069.37 33.64 0.21 28.63 34.42 0.001431 7.11 1396.66 6487.97 0.40 North Main reach 1 112624 2327.00 22.02 30.39 North Main 24.95 30.51 0.000329 reach 1 112624 2.75 847.57 3399.00 122.58 22.02 31.86 0.18 North Mai 25.73 32.03 0.000391 reach 1 112624 3 29 1064.59 4547.00 449.63 22.02 32.48 0.21 26.47 North Main 32.62 reach 1 112624 3.33 3286.91 9936.00 4278.95 22.02 33.78 0.21 29.23 33.82 0.000308 2.58 10780.32 0.18 North Main ach 1 112620 Inline Wei North Main reach 1 112604 2327.00 20.05 30.38 22.94 30.46 North Main 0.000164 reach 1 112804 2 20 1056.62 3399.00 124.65 20.05 0.13 North Main 31.85 23.74 31.97 0.000217 each 1 112604 2.73 4547.00 1281.48 416,63 20.05 32.47 0.16 24.49 North Main 32.58 0.000255 each 1 112604 2.91 3516 34 9936.00 4269.82 20.05 33.77 27.33 0.17 33.82 0.000258 2.58 10971.38 0.17 North Main mach 1 112000 2327.00 20,06 30.28 22.91 30.36 North Main reach 1 112000 0.000166 2.21 1052.49 3399.00 124 65 20.06 0.13 31.72 North Mair 23.71 31.83 0.000241 reach 1 112000 2.71 1465.89 4547.00 20.06 32.35 1090.76 0.16 24.47 32.42 North Main 0.000228 reach 1 112000 2.46 4668,73 4503.98 9936,00 20.06 0.16 33.64 27.28 33.68 0.000199 2.33 12010.83 6377.40 0.15 North Main reach 1 110000 2639.00 19.82 29 85 22.92 North Main reach 1 29.96 0.000227 110000 3859.00 2.58 1024.75 122.12 19.82 31.23 23.78 0.16 North Main reach 1 31.32 0.000259 10000 2.66 2403.97 5336 00 1136,17 19.82 31.91 24.69 0.17 31.97 North Main reach 1 110000 0.000214 2.47 4342.72 10085,00 19.82 1701.91 0.15 33.31 27.12 33.34 0.000146 2.06 14514.07 7662.13 0.13 North Main reach 1 108000 2639.00 19.53 29.40 22.56 North Main 29.50 0.000226 reach 1 108000 2.56 1030.78 3859.00 123.58 19.53 30.94 23.41 0.16 North Main 30.98 0.000123 reach 1 108000 2.05 5336.00 5580 28 4910.98 19.53 31.72 24.31 0.12 31,74 North Main ach 1 0.000083 108000 1.71 9522.72 10085.00 5153 89 19.53 33.17 26.69 0.10 33.18 0.000067 1.44 17817.74 6260.86 0.09 North Main reach 1 107667 2639.00 19.53 29.32 North Main 29.43 0.000242 reach 1 107667 2.58 1023.04 3859.00 127.97 19.53 30.75 0.16 North Mair 30.91 0.000321 reach 1 107667 5336.00 3.18 1212.08 141.05 19.53 31.40 0 19 North Mair 31.66 0.00050 each 1 4.10 107667 1312 60 10085,00 172.50 19.53 32.39 0.24 26,69 33.05 0.001383 6.66 2481.52 5022.64 0.39 North Main reach 1 107600 2639 00 19.53 29.30 North Main 29.41 reach 1 107600 0.000244 2.59 1020.87 3859.00 127.87 19.53 30.73 0.16 North Mair 30.88 reach 1 0.000324 3.19 107600 1208.84 5336.00 19.53 140.20 0.19 31.37 31.63 North Main 0.000507 reach 1 107600 4.11 1306.41 170.16 10085.00 19.53 32.17 0.24 26.68 32.94 0.001537 7.06 1667.63 2371.93 0.41 North Mair reach 1 106000 2639.00 19.52 28 80 22.49 North Main reach 1 29.00 0.000262 2.68 106000 3859.00 984.25 122.94 19.52 0.17 30.09 23.32 30.27 North Main reach 1 0.000465 3.37 106000 1144.72 5336.00 156.60 19.52 30.72 0.22 24.23 30.81 North Main reach 1 0.000453 2.95 106000 4333.12 10085.00 5320 15 19.52 31.63 0.21 26.58 31.69 0.000354 2.82 11102.30 9032.39 0.19 North Main reach t 104000 2639.00 18.67 28.36 22.04 28 48 0.000265 North Main reach 1 104000 3859.00 2.69 981.55 18.67 29.81 0.17 22.88 29.83 0.000108 1.61 5656.63 2790.90 0.11

HEC BAS Pian P 10 D 2 (Continued) Min Ch El W.S. Elev River Sta Q Total Crit W.S. E.G. Elev E.G. Slope Vei Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (ft/ft) (fVs) (so ft) (ft) North Main sach f 104000 5336.00 18.67 30.39 23.76 30 40 0.000108 7904.74 3679.46 0.11 North Main reach 1 104000 10085.00 18.67 31.19 26.08 31.21 0.000186 2.03 11042.21 4178.10 0.13 North Mair reach 1 102396 2639.00 18.36 27.93 21.50 28.04 0.000277 2.75 960.54 120 82 0.17 North Main reach 1 102396 3859.00 18.36 29.35 22.37 29.52 0.000362 3.40 1136.23 1791.07 0.20 North Main 102398 reach 1 5336.00 18.36 30.08 23.29 30.16 0.000223 2.74 6916.02 10831.16 0.16 North Main reach 1 102396 10085.00 18.38 30.92 25.73 30.95 0.000166 2.30 16375.19 11400.00 0.14 North Main each 1 102314 2639.00 18.36 27.90 21.50 28 02 0.000279 2.76 957.70 120.72 0.17 North Main reach 1 102314 3859.00 18.36 29.31 22.37 29,49 0.000366 3.41 1132.28 1678,00 0.20 North Main reach 1 102314 5336 00 18.36 30.06 23.29 30.14 0.000233 2.80 6682.73 10479.45 North Mair reach 1 102314 10085.00 18.36 25.73 30.93 0.000173 2.34 16137 53 11400.00 0.14 North Main reach t 102000 2639.00 18.36 27.84 21.28 27.94 0.000223 2.52 1046,81 127.28 0.15 North Main 102000 3859.00 18.36 29.33 22 09 29.38 0.000176 4598.01 2.20 4528.96 0.14 North Mair early t 102000 5336.00 18.36 30,04 22.93 30.07 0.000136 10196.72 10766,3 0.12 North Main reach 1 102000 10085.00 18.36 30,86 25.18 30.88 0.000103 1.73 19074.87 10778.47 0.11 North Main reach 1 100000 2639.00 18.35 27.29 21.37 27.41 0.000309 2.82 936.36 123.65 0.18 North Main reach t 100000 3859.00 18.35 28,67 22.19 28.86 0.000399 3.47 1111.05 129.37 0.21 Vorth Main reach 1 100000. 5336.00 18.35 29.19 23.08 29.51 0.000761 4.49 1267.28 748.36 0.28 North Main 100000 10085.00 0.000515 18.35 30,36 25.43 30.47 3.69 9300.74 10725.03 0.23 North Main reach f ORNINA 2639.00 17.13 26.79 20.26 26.89 0.000221 2.48 1233.00 1037.06 0.15 North Main reach:1 98000 3859.00 17.13 28,20 21.07 28.25 0.000211 2.21 3442.91 1978.17 0.15 North Main reach 1 98000 5336.00 17.13 28 66 28.71 21.91 0.000208 2.26 5372.17 3276.40 0.15 98000. 10085.00 17.13 29.75 24.17 29.79 0.000229 2.54 10395.10 5204.86 0.16 North Main reach 1 97100 2639.00 16.79 26.58 20.16 26.68 0.000235 1064.21 164.77 0.18 North Main reach 1 97100 3859.00 16.79 27.93 2542.14 20.98 28.03 0.000262 2.72 2367.08 0.17 North Main reach 1 97100 5336.00 16.79 28.43 21.83 28.50 0.000258 2.60 5174 52 4319.58 0.17 North Main reach 1 97100 10085.00 16.79 29.53 24.10 29.57 0.000251 2.46 11510.99 7149.19 0.16 North Main 97052 reach 1 2639.00 16.79 26.57 20.16 26.67 0.000237 1062.57 2.48 164.54 0.16 North Main reach t 97052 3859.00 16.79 27.92 20.98 28.02 0.000285 2.74 2507.27 2343.01 0.17 North Main mark 1 97052 5336.00 15.79 28.42 21.83 28.49 0.000267 2.60 0.17 North Main ech 1 97052 10085.00 16.79 29.52 2.43 24.10 29.56 0.000259 11431.09 7120.75 0.16 North Main reach 1 98000 2639.00 16,79 26,31 19.88 26.41 0.000246 2.60 1015 60 127 18 0.16 North Main reach 1 98000 3859.00 18.79 27.65 20.70 27.72 0.000289 2.48 3303.80 3227.91 0.17 North Main reach 1 96000. 5336.00 16.79 28.34 21.56 0.000063 28.35 1.20 12282.26 7397.77 0.08 North Main reach 1 96000 10085.00 16.79 29.43 23.86 0.000059 21554.29 1.24 9635.97 0.08 North Mai reach 1 94000 2639.00 16.80 25.99 19.82 28.04 0.000136 1.91 1812.55 316.77 0.12 North Main reach 1 D4000. 3859.00 16.80 27.23 20.61 27.29 0.000160 2 23 2808 98 1913.24 0.13 North Main reach t 94000 5336.00 16.60 28.10 21.49 28.15 0.000172 2.25 5323.19 3856.07 0.14 North Main reach: 1 94000. 10085.00 16.80 23.79 29.27 0.000113 1.74 16657.14 9186.17 0.11 North Main reach 1 92434 2639,00 16.79 25.63 19 58 25.74 0.000267 2.66 993.44 128.00 0.17 North Main 92434 3859.00 16,79 26.73 20.37 26.91 0.000381 3.40 1145.48 304.72 0.20 North Main reach 1 92434 5336,00 16.79 27.47 21.21 27.72 0.000506 4 08 2054.66 2130.05 0.24 North Main reach 1 92434 16.79 28.73 23.45 28.93 0.0005494.52 6594.88 5121.16 0.25 North Main reach 1 92376 2639.00 18 70 25.62 19.58 25.73 0.00026 2.66 991.39 127.94 0.17 North Main reach t 92376 3859.00 16.79 26.71 20.37 26.89 0.000385 3.41 1139.09 245.67 0.20 North Main reach 1 92376 5336.00 16.79 27.44 21.21 27.69 0.000519 1977.98 2043.33 0.24 North Main each 1 92376 10085.00 16.79 28.67 23.45 28.89 0.000588 4.67 6287.07 4955.32 0.26 North Main reach 1 92000 2639.00 16.79 25.50 19.60 25.62 0.000292 2.76 955.71 123.81 0.18 North Main reach 1 92000 3859.00 16.79 26.54 20.40 26.74 0.000425 3.55 1100.16 253,91 0.21 North Main reach 1 21.26 27.47 92000 5336.00 16.79 27.19 0.000600 4.38 1751.48 1706.98 0.26 reach 1 92000 10085.00 16.79 28.29 23.53 28.60 0.000928 5.32 4878.80 3984.81 0.32 North Main reach t 91033 2639.00 16.48 25.18 19.68 25.31 0.000349 2.90 910.77 126 68 0.19 North Main reach 1 91033 3859.00 16.48 26.08 20.50 26.29 0.000505 3.69 1326.94 1731.94 0.23 North Main reach t 91033 5336.00 16.48 26.65 21.36 26.88 0.000597 4.15 2629.43 2821.68 0.25 North Main reach 1 91033 10085.00 16.48 27.50 23.64 0.000812 5.08 5665.58 4339.49 0.30 North Main reach 1 91030 Inline Weir North Main reach 1 91000 2639.00 14.79 25.17 17.94 25.27 0.000206 2.47 1066.54 128.05 0.15 North Main reach 1 91000 3859.00 14.79 26.07 18.81 26.23 0.000310 3.18 1700.41 2353.65 0.19 26.64 North Main reach 1 91000 5336.00 14.79 19.72 26.80 0.000363 3584.22 3.53 4273.29 0.20 North Main reach 1 91000 10085.00 14.79 27.49 22.17 27.64 0.000452 4.09 8402.13 7084.83 0.23 North Main reach 1 90000. 2639,00 14.79 25.02 17.69 25.09 0.000150 2.16 1883.29 1216.46 0.13 North Mair reach 1 90000 3859.00 14.79 25.93 18.51 25.99 0.000149 2.26 4511.48 3851.95 0.13 North Main mach 1 90000. 5336.00 14.79 28.50 19.38 26.55 0.000150 2.33 7012.51 4987.57 0,13 North Main reach 1 90000 10085.00 14.79 27.22 21,70 27.27 0.000264 2.70 11160.10 6482.38 0.17 North Main reach 1 88000 2639.00 14.78 24.75 17.74 24.80 0.000133 3067.06 3045.98 0.12 reach 1 88000 3859.00 14.78 25.73 18 58 25.75 0.000088 1.67 7152.17 5281.27 0.10 North Main 86000 5338.00 14.78 26.30 19.46 26.32 0.000086 1.58 10523.87 6589 64

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| th Main reach the Main reach Main reach Main reach Main reach the  | sch 1   | 67189 87189 87189 87189 87189 87084 87084 87084 97084 97084 98000 88000  | 3859.00<br>5338.00<br>10085.00<br>2639.00<br>3859.00<br>10085.00<br>2639.00<br>3859.00<br>5336.00<br>10085.00<br>2685.00<br>3889.00<br>5379.00<br>10151.00<br>2685.00<br>3889.00<br>5379.00<br>10151.00   | 14.78 14.78 14.78 14.78 14.78 14.78 14.78 14.78 14.78 14.31 14.31 14.31 14.31 12.94 12.94 12.94 12.94       | 25.43<br>25.82<br>26.67<br>24.52<br>25.39<br>25.76<br>26.65<br>24.35<br>25.28<br>25.67<br>26.45<br>23.99<br>25.05<br>25.41<br>26.11<br>23.64<br>24.81<br>25.06 | 18.69 19.58 21.96 17.84 18.69 19.58 21.96 17.36 18.19 19.09 21.42 16.51 17.32 18.20 20.52 16.688 17.80                                       | 25.61<br>26.13<br>26.70<br>24.83<br>25.57<br>26.08<br>24.41<br>25.31<br>25.70<br>26.49<br>24.08<br>25.08<br>25.44<br>26.14                                     | 0.000374 0.000826 0.000154 0.000239 0.000378 0.000638 0.000159 0.000159 0.000127 0.000127 0.000147 0.000173 0.000100 0.000116 0.000144  | 3.42<br>4.52<br>2.36<br>2.80<br>3.43<br>4.55<br>2.39<br>2.12<br>1.85<br>2.04<br>2.45<br>2.34<br>1.88<br>1.97<br>2.08 | 1129.62<br>1179.92<br>14404.91<br>1015.50<br>1125.32<br>1172.39<br>14216.88<br>2390.60<br>5501.23<br>7199.42<br>11760.82<br>1140.97<br>5488.25<br>8838.47<br>15508.45            | 5668.96<br>6374.85<br>7897.15<br>1635.08<br>5607.97<br>6269.76<br>7854.71<br>2185.34<br>3991.91<br>4842.60<br>6828.14<br>127.66<br>9091.23<br>9326.93<br>9606.61            | 0.2 0.1 0.1 0.1 0.2 0.2 0.2 0.3 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0   |
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| rith Main reach the Main reach Main reach Main reach Main reach the Main reach the Main reach the Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach the M | sch 1   | 87084  86000.  86000.  86000.  84000.  84000.  84000.  84000.  82000.  82000.  82000.  82000.  81854  81854  81854  81854  81854  81857  81817   | 2639.00 3859.00 5336.00 10085.00 2685.00 3889.00 5379.00 10151.00 2665.00 3889.00 5379.00 10151.00  | 14.31<br>14.31<br>14.31<br>14.31<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94                      | 24.35<br>25.28<br>25.67<br>26.45<br>23.99<br>25.05<br>25.41<br>26.11<br>23.64<br>24.81<br>25.06<br>25.75   | 17.38<br>18.19<br>19.09<br>21.42<br>16.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.08   | 24.41<br>25.31<br>25.70<br>26.49<br>24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85   | 0.000154<br>0.000127<br>0.000147<br>0.000201<br>0.000173<br>0.000100<br>0.000116<br>0.000144  | 2.12<br>1.85<br>2.04<br>2.45<br>2.34<br>1.88<br>1.97<br>2.06   | 2390.90<br>5501.23<br>7199.42<br>11780.82<br>1140.97<br>5488.25<br>8838.47<br>15508.45   | 2185.34<br>3891.91<br>4842.60<br>6826.14<br>127.66<br>9091.23<br>9326.93<br>9806.81   | 0.1<br>0.1<br>0.2<br>0.2<br>0.3<br>0.3<br>0.3<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4   |
| rth Main reachth M | sech 1  | 86000. 86000. 86000. 86000. 84000. 84000. 84000. 84000. 82000. 82000. 82000. 82000. 82000. 81854. 81854. 81854. 81854. 81857.  | 2639.00 3859.00 5336.00 10085.00 2685.00 3889.00 5379.00 10151.00 2665.00 3889.00 5379.00 10151.00  | 14.31<br>14.31<br>14.31<br>14.31<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94                      | 25.28<br>25.67<br>26.45<br>23.99<br>25.05<br>25.41<br>28.11<br>23.64<br>24.81<br>25.06<br>25.75  | 18.19<br>19.09<br>21.42<br>18.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.88  | 25.31<br>25.70<br>26.49<br>24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85  | 0.000127<br>0.000147<br>0.000201<br>0.000173<br>0.000100<br>0.000116<br>0.000144  | 1.85<br>2.04<br>2.45<br>2.34<br>1.88<br>1.97<br>2.06   | 5501.23<br>7199.42<br>11760.82<br>1140.97<br>5488.25<br>8836.47<br>15508.45  | 3891.91<br>4842.60<br>6826.14<br>127.66<br>9091.23<br>9326.93<br>9606.61  | 0;<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  |
| rth Main reach the Main reach Main reach Main reach the Main reach | ach 1   | 86000. 86000. 86000. 86000. 84000. 84000. 84000. 82000. 82000. 82000. 82000. 81854 81854 81854 81854 81857   | 3859.00<br>5338.00<br>10085.00<br>2685.00<br>3889.00<br>5379.00<br>2685.00<br>3879.00<br>10151.00<br>2865.00<br>3879.00<br>10151.00   | 14.31<br>14.31<br>14.31<br>13.56<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94                      | 25.28<br>25.67<br>26.45<br>23.99<br>25.05<br>25.41<br>28.11<br>23.64<br>24.81<br>25.06<br>25.75  | 18.19<br>19.09<br>21.42<br>18.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.88  | 25.31<br>25.70<br>26.49<br>24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85  | 0.000127<br>0.000147<br>0.000201<br>0.000173<br>0.000100<br>0.000116<br>0.000144  | 1.85<br>2.04<br>2.45<br>2.34<br>1.88<br>1.97<br>2.06   | 5501.23<br>7199.42<br>11760.82<br>1140.97<br>5488.25<br>8836.47<br>15508.45  | 3891.91<br>4842.60<br>6826.14<br>127.66<br>9091.23<br>9326.93<br>9606.61  | 0;<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  |
| rth Main reach the Main reach Main reach Main reach Main reach the Main reach the Main reach the Main reach the Main reach Main reach Main reach Main reach Main reach Main reach the Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach orth Main  | ach 1   | 86000. 86000. 86000. 86000. 84000. 84000. 84000. 82000. 82000. 82000. 82000. 81854 81854 81854 81854 81857   | 3859.00<br>5338.00<br>10085.00<br>2685.00<br>3889.00<br>5379.00<br>2685.00<br>3879.00<br>10151.00<br>2865.00<br>3879.00<br>10151.00   | 14.31<br>14.31<br>14.31<br>13.56<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94                      | 25.28<br>25.67<br>26.45<br>23.99<br>25.05<br>25.41<br>28.11<br>23.64<br>24.81<br>25.06<br>25.75  | 18.19<br>19.09<br>21.42<br>18.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.88  | 25.70<br>26.49<br>24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85   | 0.000147<br>0.000201<br>0.000173<br>0.000100<br>0.000116<br>0.000144  | 2.04<br>2.45<br>2.34<br>1.88<br>1.97<br>2.06   | 7199.42<br>11760.82<br>1140.97<br>5488.25<br>8836.47<br>15508.45   | 4842.60<br>6828.14<br>127.66<br>9091.23<br>9326.93<br>9606.61   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.  |
| rth Main reach orth Main reach o | ach 1   | 88000<br>86000<br>84000<br>84000<br>84000<br>84000<br>82000<br>82000<br>82000<br>82000<br>81854<br>81854<br>81854<br>81854<br>8187<br>8187   | 5396.00<br>10085.00<br>2685.00<br>3889.00<br>5379.00<br>10151.00<br>2685.00<br>3889.00<br>10151.00  | 14.31<br>14.31<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94<br>12.94                               | 25.67<br>26.45<br>23.99<br>25.05<br>25.41<br>26.11<br>23.64<br>24.81<br>25.00<br>25.75   | 19.09<br>21.42<br>18.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.88<br>17.80  | 25.70<br>26.49<br>24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85   | 0.000201<br>0.000173<br>0.000100<br>0.000116<br>0.000144  | 2.45<br>2.34<br>1.88<br>1.97<br>2.06   | 11760.82<br>1140.97<br>5488.25<br>8838.47<br>15508.45  | 127.66<br>9091.23<br>9326.93<br>9606.61   | 0.<br>0.<br>0.<br>0.<br>0.  |
| rth Main reach thin Main reach Main reach Main reach Main reach thin Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach Main reach thin Main reach Mai | sch 1   | 86000.  84000.  84000.  84000.  84000.  82000.  82000.  82000.  82000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.  83000.   | 2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00   | 14.31<br>13.56<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94<br>12.94                               | 26.45<br>23.99<br>25.05<br>25.41<br>26.11<br>23.84<br>24.81<br>25.00<br>25.75  | 21.42<br>18.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.88<br>17.80   | 26.49<br>24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85  | 0.000173<br>0.000100<br>0.000116<br>0.000144  | 2.34<br>1.88<br>1.97<br>2.06   | 1140.97<br>5488.25<br>8836.47<br>15508.45  | 127.66<br>9091.23<br>9326.93<br>9606.61   | 0.<br>0.<br>0.<br>0.  |
| th Main reach Main rea | sch 1   | 84000<br>84000<br>84000<br>84000<br>82000<br>82000<br>82000<br>82000<br>82000<br>82000<br>82000<br>82000<br>81854<br>81854<br>81854<br>81854<br>81854<br>81857<br>81857  | 2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00   | 13.56<br>13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94<br>12.94  | 23.99<br>25.05<br>25.41<br>28.11<br>23.64<br>24.81<br>25.06<br>25.75   | 18.51<br>17.32<br>18.20<br>20.52<br>16.02<br>16.88<br>17.80  | 24.08<br>25.08<br>25.44<br>26.14<br>23.72<br>24.85   | 0.000100<br>0.000116<br>0.000144<br>0.000180  | 1.88<br>1.97<br>2.06   | 5488.25<br>8838.47<br>15508.45<br>1113.60  | 9091,23<br>9326,93<br>9806,81   | 0.<br>0.<br>0.  |
| th Main reac   | ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1   | 84000<br>84000<br>84000<br>84000<br>82000<br>82000<br>82000<br>82000<br>82000<br>81854<br>81854<br>81854<br>81854<br>81857<br>81857  | 3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00  | 13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94<br>12.94   | 25.05<br>25.41<br>26.11<br>23.64<br>24.81<br>25.06<br>25.75  | 17.32<br>18.20<br>20.52<br>16.02<br>16.88<br>17.80   | 25.08<br>25.44<br>26.14<br>23.72<br>24.85  | 0.000100<br>0.000116<br>0.000144<br>0.000180  | 1.88<br>1.97<br>2.06   | 5488.25<br>8838.47<br>15508.45<br>1113.60  | 9091,23<br>9326,93<br>9806,81   | 0.<br>0.<br>0.  |
| rth Main reac  | ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1 ach 1   | 84000<br>84000<br>84000<br>84000<br>82000<br>82000<br>82000<br>82000<br>82000<br>81854<br>81854<br>81854<br>81854<br>81857<br>81857  | 3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00  | 13.56<br>13.56<br>13.56<br>12.94<br>12.94<br>12.94<br>12.94   | 25.05<br>25.41<br>26.11<br>23.64<br>24.81<br>25.06<br>25.75  | 17.32<br>18.20<br>20.52<br>16.02<br>16.88<br>17.80   | 25.08<br>25.44<br>26.14<br>23.72<br>24.85  | 0.000100<br>0.000116<br>0.000144<br>0.000180  | 1.88<br>1.97<br>2.06   | 8836.47<br>15508.45<br>1113.60   | 9326.93<br>9606.61<br>123.90  | 0.<br>0.<br>0.  |
| rifi Main reach Main r | ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i ach i   | 84000. 84000. 82000. 82000. 82000. 82000. 82000. 83000. 83000. 81854 81854 81854 81854 81857 81857   | 5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00   | 13.56<br>13.58<br>12.94<br>12.94<br>12.94<br>12.94  | 25.41<br>26.11<br>23.64<br>24.81<br>25.06<br>25.75   | 18.20<br>20.52<br>16.02<br>16.88<br>17.80  | 25.44<br>26.14<br>23.72<br>24.85   | 0.000116<br>0.000144<br>0.000180  | 1.97<br>2.06<br>2.39   | 15508.45   | 9806.81   | 0.<br>0.<br>0.  |
| rith Main reach Main r | ech 1  sch 1   | 84000. 82000. 82000. 82000. 82000. 82000. 81854 81854 81854 81854 81857 81817  | 10151.00<br>2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00  | 13.58<br>12.94<br>12.94<br>12.94<br>12.94<br>12.94  | 26.11<br>23.64<br>24.81<br>25.06<br>25.75  | 20.52<br>16.02<br>16.88<br>17.80   | 26.14<br>23.72<br>24.85  | 0.000144  | 2.06   | 15508.45   | 123.90  | 0.<br>0.  |
| th Main reachth Ma | sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1 sch 1   | 82000.<br>82000.<br>82000.<br>82000.<br>81854<br>81854<br>61854<br>81854<br>81857<br>81817   | 2665.00<br>3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00  | 12.94<br>12.94<br>12.94<br>12.94<br>12.94   | 23.64<br>24.81<br>25.06<br>25.75   | 16.02<br>16.88<br>17.80  | 23.72<br>24.85   | 0.000180  | 2.39   | 1113.60  | 123.90  | 0.<br>0.  |
| th Main reacht Mai | ach 1 sch 1   | 82000,<br>82000,<br>82000,<br>81854,<br>81854,<br>81854,<br>81854,<br>81854,<br>91817,<br>91817,<br>81817,   | 3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00   | 12.94<br>12.94<br>12.94<br>12.94  | 24.81<br>25.06<br>25.75  | 16.88<br>17.80   | 24.85  |   |  |  |   | 0.  |
| th Main reach Main rea | ach 1 sch 1   | 82000,<br>82000,<br>82000,<br>81854,<br>81854,<br>81854,<br>81854,<br>81854,<br>91817,<br>91817,<br>81817,   | 3889.00<br>5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00   | 12.94<br>12.94<br>12.94<br>12.94  | 24.81<br>25.06<br>25.75  | 16.88<br>17.80   | 24.85  |   |  |  |   | 0.  |
| th Main reacht Mai | sch 1 sch 1 sich 1  | 82000<br>82000<br>81854<br>81854<br>81854<br>81854<br>81854<br>8187<br>81817<br>81817  | 5379.00<br>10151.00<br>2665.00<br>3889.00<br>5379.00  | 12.94<br>12.94<br>12.94<br>12.94  | 25.06<br>25.75   | 17.80  |  |   | 2.02   | 5248.84  |   |   |
| th Main reac  | sech 1 sech 1 sech 1 sech 1 sech 1  | 81854<br>81854<br>81854<br>81854<br>81854<br>81857<br>81817  | 10151.00<br>2665.00<br>3889.00<br>5379.00   | 12.94<br>12.94<br>12.94   | 25.75  |  |  |   |  | 6770.35  | 10717.53  | , n   |
| th Main reach Main rea | each 1 each 1 each 1 each 1 each 1 each 1 each 1  | 81854<br>81854<br>81854<br>81854<br>81857<br>81817<br>81817<br>81817   | 2865.00<br>3889.00<br>5379.00   | 12.94<br>12.94  |  |  | 25.12  | 0.000228  | 2.52   |  |   | 0.  |
| th Main react th | each 1 each 1 each 1 each 1 each 1 each 1   | 81854<br>81854<br>81854<br>81817<br>81817<br>81817<br>81817  | 3889.00<br>5379.00  | 12.94   | L  | 20.20  | 25.78  | 0.000228  | 2.28   | 14209.02   | 10/98.60  | ·   |
| rih Main reac  | each 1 each 1 each 1 each 1 each 1 each 1   | 81854<br>81854<br>81854<br>81817<br>81817<br>81817<br>81817  | 3889.00<br>5379.00  | 12.94   |  |  |  |   | <u> </u>   |  | 140.55  |   |
| rth Main reac  | each 1 each 1 each 1 each 1 each 1 each 1   | 81854<br>61854<br>81817<br>81817<br>81817  | 5379.00   |   |  |  | 23.71  | 0.000157  |  | 1205.29  | -   | 0.  |
| th Main reacth Mai | each 1<br>each 1<br>each 1<br>each 1  | 81817<br>81817<br>81817<br>81817   |   |   |  |  | 24.81  | 0.000239  |  | 1353.06  |   | 0   |
| th Mein reactifh   Mein reactiffh  | each f<br>each f<br>each 1  | 81817<br>81817<br>81817  | 10151.00  | 12.94   | 25.02  |  | 25.09  |   |  | 7048.00  |   |   |
| rith Main reachth  | each 1<br>each 1  | 81817<br>81817<br>81817  |   | 12.94   | 25.72  | 19.90  | 25.76  | 0.000179  | 2.60   | 14948.69   | 11348.90  | 0.  |
| rth Main reac  | ech 1   | 81817<br>81817   |   |   |  |  |  |   | 1  |  | <del> </del>  |   |
| rth Main reac  | ech 1   | 81817  | 2665.00   | 12.94   | 23.62  | 15.92  | 23.70  | 0.000157  | 2.21   | 1204.46  |   | 0.  |
| rth Main reachth M | ech 1   | 81817  | 3889.00   | 12.94   | 24.67  | 16.74  | 24.80  | 0.000239  | 2.88   | 1351.74  |   |   |
| th Main reaching the Main reac |   |  | 5379.00   | 12.94   | 25.01  | 17.61  | 25.08  | 0.000192  | 2.62   | 6958.96  | 11286.90  |   |
| rth Main reachth M |   | 81817  | 10151.00  |   | 25.70  | 19.90  | 25.75  | 0.000183  | 2.64   | 14780.04   | 4 11346.11  | D.  |
| rith Main reach<br>rith Main reach   |   | 1  |   |   |  |  |  |   |  |  |   |   |
| rth Main reacht Ma | nachi 1   | 80000.   | 2665.00   | 12.93   | 3 23.28  | 15.98  | 23,38  | 0.000201  | 2.48   | 1074.6   | 5 123.27  | 0   |
| rth Main reachth M |   | 80000.   | 3889.00   |   |  |  | 24.35  | 0.000256  | 2.85   | 3080.4   | 5095.06   | 0   |
| rth Main reacht Ma |   | 80000  | 5379.00   |   |  |  | 24.58  | 0.000428  | 3.48   | 4226.4   | 1 6552.65   | 0   |
| orth Main read read read read read read read read  |   |  |   | -   |  |  |  |   |  | 10903.4  | 0 10718.91  | 0   |
| orth Main reasorth Main  | nach 1  | 80000  | 10151.00  | 12.8  | 25.11  | 20.14  | 20.20  | 0.00044   |  |  |   |   |
| orth Main reachth  |   | 2005, 15 (0)   |   | 1 - 40.00   | 20.0   | 1 16.07  | 22.92  | 0.000265  | 2.61   | 1180,5   | 6 762.42  | 0   |
| orth Main reacht M | each 1  | 78000.   | 2665.00   |   |  | 1  |  |   |  | 2830.7   |   |   |
| orth Main rea<br>orth Main rea<br>orth Main rea<br>orth Main rea   | each 1  | 78000.   | 3889.00   |   |  | -  |  |   |  | 7446.8   |   |   |
| orth Main rea<br>orth Main rea<br>orth Main rea  | each 1  | 78000.   | 5379.00   |   |  |  |  |   |  |  |   |   |
| rth Main rea   | each 1  | 78000.   | 10151.00  | 12.9  | 5 24.5   | 8 20.30  | 24.60  | 0.00026   | 2.50   | 12001.0  | 501112  | -   |
| orth Main rea  | <u> </u>  |  |   |   |  |  |  | 0.00025   | 9 2.67   | 1011.9   | 0 555.20  | 0   |
| orth Main rea  | each 1  | 76000  | 2665.00   |   |  |  |  |   |  |  |   | +   |
|  | each 1  | 78000.   | 3889.00   |   |  |  |  |   |  |  |   |   |
| orth Main rea  | each 1  | 76000.   | 5379.00   |   |  |  |  |   |  |  |   |   |
|  | each 1  | 76000.   | 10151.00  | 12.9  | 4 23.9   | 0 19.97  | 7 23.9   | 0.00039   | 3.03   | 10023.1  | 0070.5  | 1   |
| er is 11 in 11 an  |   | 4. 30.0  |   |   |  |  |  |   |  | 1011.0   | 120.7   | 2 (   |
| rth Main rea   | each 1  | 74000.   | 2665.00   |   |  | -  |  |   |  |  |   |   |
|  | each t  | 74000  | 3889.00   |   |  | -  |  |   |  |  |   |   |
|  | each 1  | 74000  | 5379.00   |   |  |  |  |   |  |  |   |   |
| orth Main rea  | each 1  | 74000.   | 10151.00  | 0 11.8  | 6 23.2   | 9 19.2   | 3 23.3   | 3 0.00025   | 5 2.66   | 13451.0  | 9607.1  | 7   |
|  | 1 6 1 Taxa  | Harata a N   | 1   |   |  |  |  |   |  |  | 1   |   |
| orth Main rea  | each 1  | 72000.   | 2665.00   | 0 10.5  | 8 21.3   | 6 13.8   | 3 21.4   |   |  |  |   |   |
|  | each 1  | 72000.   | 3889.0  |   | 8 22.0   | 7 14.6   | 9 22.1   |   |  |  |   |   |
|  | reach 1   | 72000  | 5379.0  | -   |  |  | 0 22.4   | 7 0.00021   |  |  |   |   |
|  | each 1  | 72000.   | 10151.0   |   |  |  | 5 23.0   | 6 0.00008   | 0 1.51   | 20393.5  | 10762.4   | 9 (   |
| orași retuită ji și de   |   |  |   |   |  |  |  |   |  |  | 1   |   |
| orth Main  | each 1  | 70000.   | 2665.0  | 0 10.4  | 8 20.9   | 13.5   | 8 21.0   | 4 0.00019   | 7 2.45   | 1158.2   |   |   |
|  | reach 1   | 70000.   | 3889.0  |   |  |  |  | 2 0.00028   | 3 2.76   | 3468.1   |   |   |
|  |   | 70000  | 5379.0  |   |  | -  |  |   | 8 3.12   | 4946.6   |   |   |
|  | reach 1   | 70000.   | 10151.0   |   |  |  |  |   | 1 2.73   | 11402.2  | 28 6862.7   | 8   |
| ли мал гев   | I IDBU  | 7 0000.  | 10.51.0   |   | 1  |  |  |   |  |  |   |   |
|  | ranch *   | 69760  | 2665.0  | 0 10.4  | 48 20.5  | 32 13.4  | 8 21.0   | 0.00017   | 0 2.25   | 1182.  | 75 3495.5   |   |
|  | reach 1   | 69760  | 3889.0  |   |  |  |  |   |  |  | 76 7200.8   | 3   |
|  | reach 1   |  | 5379.0  |   |  |  |  |   |  |  | 11 B407.8   | 5   |
|  | reach 1   | 69760  |   |   |  | -  |  |   |  |  |   | 5   |
| orth Main rea  | reach 1   | 69760  | 10151.0   | 10.4  |  | 17.4   | - 22.1   | 0.00000   |  |  |   |   |
|  |   | -  |   |   | 40 20  | 90 13.4  | 7 20.5   | 0.00017   | 72 2.2   | 6 1179.  | 70 3454.6   | 88  |
|  | reach 1   | 69693  | 2665.0  |   |  |  |  | -   |  |  |   |   |
| orth Main rea  | reach 1   | 69693  | 3859.0  |   |  |  |  |   |  |  |   |   |
| orth Main res  | reach 1   | 69693  | 5379.0  |   |  | _  |  |   |  |  |   |   |
| orth Main re   | reach 1   | 69693  | 10151.0   | 10.   | 48 22.   | 73 17.4  | 17 22.7  | 74 0.00006  | 1.7  | 18019.   | , 5 6959.5  |   |
| 14   | The second second   |  |   |   |  |  |  |   | 201  | 2 0045   | 14 7248.4   | 11  |
| orth Main re   |   | 68373  | 2917.0  |   |  |  |  |   |  |  |   |   |
|  | reach 1   | 68373  | 4268.0  | 00 10.  | 48 21.   |  |  |   |  |  |   |   |
|  |   | 88373  | 5813.0  | 00 10.  | 48 21.   |  |  |   |  |  |   |   |
|  | reach 1   | 68373  | 11410.0   |   | 48 22.   | 66 17.6  | 36 22.0  | 0.0000  | 34 1.0   | 3 30101.   | 39 10815.3  | 99  |
|  | reach 1   | 10007.0  |   |   |  |  |  |   | 82 1.5   | 9 6173.  | .05 6345.3  |   |

HEC\_DAS\_Plan-P\_10 D\_2 (Continued)
River Reach River Star Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chi (cfa) (h) (ft) (fVf) (fVs) (ft) (sq ft) (11) North Main reach 1 67000 4268.00 10.28 21.30 21.31 0.00006 1.33 0.08 North Main reach 1: 87000 5813.00 10.28 21.65 15.41 21.66 0.000068 1.27 14359.64 9430.38 0.08 North Mair reach 1 67000 11410.00 10.28 22.59 18.13 22.59 0.000088 23203.09 9458,64 0.08 1.32 North Main reach 1 68000 2917.00 10.28 13.73 0.000153 20.61 20.66 2.00 4176,59 5153.98 0.13 North Main reach 1 68000 4268.00 10.28 21.22 14.68 21,24 0.000096 1.53 9364,16 8050,56 0.10 North Main reach 1 66000 5813.00 10.28 21.57 15.62 21.58 12180.74 0.000098 8086.19 1.45 0.10 North Main reach 1 86000. 11410.00 10.28 22.51 18.40 22.52 0.000094 1.46 19798.95 8109.19 0.10 North Main 2917.00 reach 1 65430 10.28 20.40 13.69 20.53 0.000295 2.90 1007.37 5088.00 0.1B North Main 65430 reach 1 4268.00 10.28 21.17 14.64 21.19 0.000093 1.64 9900.98 9458.83 0.10 65430 5813.00 21.52 15.58 10.28 21.53 0.000093 1.54 13388.77 10453.84 0.10 North Mair reach 1 68430 11410.00 10.28 22.47 22.47 18.38 0.000075 1.47 24259.94 11800.00 0.09 North Main mach 1 85374 2917.00 10.28 20.38 13.69 20.51 0.00029 2.90 5055.03 0.18 1005.23 North Main reach 1 65374 4268.00 10.28 21.16 14.64 21.18 0.000093 1,66 9827.48 9435.61 0.10 North Mair reach 1 85374 5813.00 10.28 21.51 15.58 21.52 0.000093 1.57 13323.96 10438.47 0.10 65374 each t 11410.00 10.28 22.48 18.37 22.47 0.000075 1.51 24205.29 11800.00 0.09 North Main reach 1 64000 2917.00 10.18 19.96 13.35 20.08 0.000332 1070.27 156,65 0.18 2.73 North Main reach 1 64000, 4268.00 10.18 20.99 14.21 21.02 0.000139 6565.98 1.83 4997.62 0.12 21.42 North Main ch t 64000 5813 00 10.18 15.08 21.43 1.17 16356.01 10359.41 0.08 North Main reach 1 84000 11410.00 10.18 22.38 17.68 0.000053 22.38 11636.72 0.08 North Main 62000 2917.00 10.03 19.14 13.25 reach 1 19.28 0.000476 3.00 972.14 162.44 0.22 North Main 62000. 4268.00 reach 1 10.03 14.15 20.78 0.000103 20.78 1.57 7128.20 5036.93 0.10 North Main reach 1 62000 5813.00 10.03 21.26 15.04 21.28 0.000102 6477.68 1.62 10013.67 0.10 North Main each t 62000 11410.00 22.20 17.86 22.22 0.000130 1.95 7671.20 0.12 16872.28 North Main reach 1 60000 2917.00 9.59 18.23 12.80 18.39 0.000416 3.24 901.64 120.30 0.21 North Main 60000 9.59 reach 1 4268.00 20.30 13.69 20.42 0.000387 3.01 3148 10 4941.37 0.20 North Main 5813.00 reach 1 80000 9.59 14.57 20.91 20.97 0.000271 2.57 7270.11 8447.08 0.17 North Main 60000 11410.00 reach 1 9.59 21.88 17.18 21.91 0.000195 2.30 16330.58 10128.68 0.14 reach 1 North Mair 58000 2917.00 9.33 17.09 12.83 17.32 0.000701 0.27 3.65 116.01 North Main reach 1 58000 4268.00 9.33 19.14 13.72 19.42 0.000648 4.26 1001.85 123.64 0.26 North Main reach 1 58000 5813.00 9 33 20.60 14.60 20.62 0.000119 1 92 11888 65 10802 44 0.11 North Main reach 1 58000 11410.00 9.33 21,66 17.27 21.68 0.000080 1.46 23512.81 11213.37 0.09 North Main 57448 9.38 16.66 12.79 reach 1 2917.00 16.91 0.000825 3.99 730.71 120.62 0.29 North Mair reach 1 57448 4268.00 9.38 18.76 13.68 19.05 0.000706 4.29 994.47 130,40 0.27 North Main reach 1 57448 5813.00 9.38 20.32 20.48 0.00046 3.79 3815.76 4759.87 0.23 North Mair reach 1 57440 11410.00 9.38 21.51 17.16 21.58 0.000305 3.28 11950.00 6863.91 0.19 North Main reach 1 57404 2917.00 9.38 16.62 12.79 16.87 0.000842 4.02 725.75 120.42 0.29 North Main 57404 reach:1 4268.00 9.38 18.73 13.68 19.01 0.000716 4.31 989.98 130.24 0.28 North Main reach 1 57404 5813.00 9.38 20.28 14.58 20.47 0.000484 3.88 3640.48 4582.79 0.23 North Main reach 1 57404 11410.00 9.38 21.49 17.16 3.33 11767.28 8793.22 0.19 21.58 0.000314 reach 1 North Main 56867 2917.00 9.80 16.22 12.56 16.43 0.000739 3.65 799.43 139.64 0.27 North Main reach 1 56867 4268.00 9.80 18.43 13.33 18.65 0.000573 3.82 1117.97 149 94 0.25 North Main reach 1 56867 5813.00 9.80 20.04 14.10 20.22 0.00043 3.62 3070.15 2442.65 0.22 North Main reach 1 6867 11410.00 9.80 21.14 16.41 21.32 0.000607 4.40 5916.25 2950.45 0.26 North Main reach 1 Inline Wei 56865 7.31 North Main reach 1 56857 2917.00 16.22 10.17 16.33 0.000268 2.66 1094.79 141.93 0.17 North Main reach 1 56857 4268.00 7.31 18.42 10.97 18.56 0.000266 3.01 1418.19 151.73 0.17 North Main reach 1 56857 5813.00 7.31 20.04 11.77 20.17 0.000240 3.09 3395.95 2442.08 0.17 North Main reach 1 56857 11410.00 7.31 14.16 21.12 21.31 0.000400 4.17 6194.01 2919.93 0.22 North Main reach 1 56000 2917.00 6.74 16.02 9.60 16.11 0.000225 2.52 1156.96 141.98 0,16 0.000229 North Main reach 1 58000 4268.00 6.74 18.22 10.37 18.35 2.89 1502.35 242.30 0.16 North Main reach 1 58000. 5813.00 6.74 19.79 11.16 19.95 0.000257 3.27 2049.95 396.38 0.17 North Main reach t 58000. 11410.00 6.74 20.93 13.52 21.01 0.000242 3.13 8070.53 2723.64 0.17 reach 1 54000 2917.00 6.00 15.62 8.81 15.70 0.000185 2.34 1246,37 147.33 0.14 North Main 54000. 4268.00 6.00 17.78 9.57 17.89 169.93 0.16 reach 1 0.000220 2.71 1576.88 North Main mach 1 54000 5813.00 6.00 19.28 10.33 19 41 0.000285 3.16 1840.37 190.82 0.18 North Main each 1 54000 11410.00 6.00 20,58 12.64 20.62 0.000151 2.47 11892.01 4505.82 0.13 North Main reach 1 52275 2920.00 5.83 15.30 8.55 15.38 0.000190 2.34 1248.74 151.78 0.14 North Main 52275 4262.00 5.83 17.40 9.30 17.51 2.68 1588.36 175.68 0.16 reach 1 0.000221 18.74 0.19 reach 1 52275 5802.00 5.83 10.09 18.90 0.000316 210.60 52275 20.35 North Mein reach 1 10865.00 5.83 12.20 0.000138 2.17 13184,21 10308.39 0.13 North Main reach 1 51585 2920.00 5.69 15.11 8.68 15.23 0.000260 2.69 1086.56 135.28 0.17 North Main reach 1 51585 4262.00 5.69 17.19 9.51 17.34 0.000274 3.10 1376.86 143.59 0.18 51585 18.43 162.67 0.21 North Main 5802.00 5.69 10.37 18.65 0.000394 3.70 1566.48 reach 1 North Main reach 1 51585 10865.00 5.69 12.68 20.28 3.07 12105.33 8827.85 0.16 20.20 0.000220 North Main each 1 51519 2920 00 5 69 15 10 8.68 15 21 0.000282 2 89 1084 14 135.21 0.17 North Main reach 1 51519 4262.00 5.69 17.17 9.51 17.32 0.000276 3.10 1373.98 143.54 0.18 HEC DAS Plan: P 10 D 2 (Continued)
River Reach River Sta Q Total E.G. Slope E.G. Elev Vet Chnl Top Width Froude # Chi Min Ch El W.S. Elev Crit W.S. Flow Area (cts) (ft) (ft) (ft) (ft) (ft/ft) (sq ft) 18.41 10.37 18.62 162.67 North Main each t 51519 5802.00 5.69 0.000397 3.71 1561.99 0.21 12.68 0.000224 3.10 11959.23 8768.40 0.16 North Main reach 1 51519 10865.00 5.69 20.19 20.27 14.73 14.83 0.000235 2.52 1159.98 148.94 0.16 2920.00 5.58 8.42 North Main reach 1 50000 5.58 16 74 9.20 16.87 0.000313 2.85 1496.23 198.07 0.18 North Main reach 1 50000 4262.00 North Main 50000 5802.00 5 58 18 18 9.99 18.23 0.000151 2.18 4724.94 1438 84 0.13 each 1 50000 10865.00 5.58 20.08 12.17 20.09 0.000061 1.54 18262.31 5871.55 0.08 164.27 14.29 7.71 14.38 0.000214 2.35 1241.63 0.15 North Mair reach 1 48000 2920.00 4.89 4262.00 4.89 16.18 8.46 16.29 0.000264 2.68 1591.35 202.84 0.17 North Main reach 1 48000 5802.00 4,89 17.88 9.23 17.93 2.19 4044.99 923.03 0.13 North Main reach 1 48000 10885.00 19.92 11.31 19.95 0.000085 1.88 17879.34 8668.07 0.10 North Main reach 1 48000 North Main 2920.00 4 94 14.08 8.02 14.18 0.000299 2.76 1056.39 139.53 0.18 reach 1 47232 North Main reach t 47232 4262.00 4.94 15.89 8.86 16.06 0.000329 3.22 1321.76 150.11 0.19 17.52 9.69 17.73 0.000404 3.67 1580.42 171.84 0.21 North Mair reacts 1 47232 5802.00 4.94 11.99 19.86 0.00015 12789.48 6035.27 0.13 4.94 2.39 North Main reach 1 47232 10865.00 19.82 2920.00 4.90 13.73 7.80 13.83 0.00026 2.62 1173.11 176.26 0.17 46000 North Main reach 1 4.90 15.55 8 59 15.67 0.000273 2.95 1789.96 614.38 0.17 North Main 46000. 4262.00 reach 1 North Main 46000 5802.00 4.90 17.22 9.41 17.33 0.000225 2.91 3038,19 813.45 0,16 46000 10865.00 4.90 19.71 11.65 19.73 0.000076 1.76 17754.74 7617.24 0.09 7.35 13.30 0.00026 2.62 1114.70 147.45 0.17 2920.00 4.68 13.19 North Main reach 1 44000 4.68 14.95 8.10 15.10 0.00029 3.09 1380.75 154.28 0.1B 44000 4262.00 North Main reach 1 8.87 16.74 0.00038 3.53 1641.47 181 24 0.21 5802.00 North Main 44000 reach 1 4.68 10.98 19.52 0.00013 2.31 12226.40 5617.67 0.13 44000 10865.00 19.48 North Main reach 1 1117.18 151.95 0.17 0.000274 2.61 North Main reach 1 43141 2920.00 4.68 12.96 7,31 13.07 14.84 0.000303 3.07 1387.51 159.03 0.18 8.04 North Main reach 1 43141 4282.00 4.68 14.70 16.24 8.79 16.43 0.000341 3.54 1673.15 328.56 0.20 4.68 5802.00 North Main reach t 43141 12746.08 6274.97 0.13 10865.00 4.68 19.42 19.45 0.000139 2.25 North Main reach 1 43141 42941 2920.00 424 12.93 7.10 13.02 0.000243 2.44 1197.92 166.30 0.16 North Main reach 1 42941 4262.00 4.24 14.65 7.83 14.78 0.000266 2.86 1492.63 174.52 0.17 North Main reach 1 1795.53 322.40 0.19 16.36 3.28 North Main reach 1 42941 5802.00 4.24 16.19 8.56 0.000296 19.42 2.45 9900.64 6235.90 0.16 0.000259 North Main reach 1 42941 10865.00 4.24 19.37 10.58 Inline Weir 42938 North Main reach 1 North Main 2920.00 3.60 12.92 6.12 12 99 0.000150 2.08 1405.07 172 56 0.13 42932 4262.00 3.60 14.65 6.82 14.74 0.000177 2.49 1708.74 179.23 0.14 North Main reach 1 42932 North Mair 42932 5802.00 3.60 16.18 7.53 16.32 0.000208 2.91 2017.85 310.56 0.16 reach 1 9813.15 6184.33 2.50 0.16 North Mair each 1 42932 10865.00 3.60 19.36 9.49 19.42 0.000226 12.93 1.58 1842.67 217.70 0.10 12.89 0.00008 3.60 North Main reach 1 42366 2920.00 0.000099 1.92 2220.91 223.67 0.11 42366 4262.00 3.60 14.60 14.66 North Main reach 1 North Mair 16.14 6.74 16 21 0.000118 2.26 2567.19 227.44 0.12 42366 5802.00 3.60 reach 1 10865.00 19.28 8.36 19.36 0.000108 2.47 10147.01 5579.76 0.12 North Mair 42366 3.60 each 1 1840.50 217.66 0.10 0.00008 12.92 North Main ach 1 42313 2920.00 3.60 12.88 5.60 6.16 14.65 0.00009 1.92 2218.26 223.64 0.11 14.59 3.60 North Main reach t 42313 4262.00 2564.02 227.40 0.12 16.12 0.000117 2.26 5802.00 3.60 North Main reach 1 42313 8.36 19.35 0.000109 2.48 10112.03 5567.41 0.12 10865.00 3.60 19.28 North Main reach 1 42313 42000 2920 00 3.60 12.85 5.51 12.89 0.000075 1.52 1919.74 223.46 0.09 North Main reach 1 229.48 0.000090 1.85 0.10 North Main reach 1 42000 4262.00 3.60 14.56 6.06 14.61 2306.38 16.16 0.00010 2.18 0.11 North Mair reach f 42000 5802.00 3.60 16.09 6.62 0.13 19.31 0.000125 2.68 8979.21 6439.48 19.22 8.16 North Main reach 1 42000 10865.00 3.60 12.70 5.17 12.74 0.000072 1.50 1952 17 226.02 0.09 2920.00 3.15 North Main reach 1 40000 4262.00 3.15 14.38 5.72 14.43 0.000087 1.83 2334.97 231.48 0.10 North Main reach 1 40000 0.000105 2685.71 236,03 each 1 40000 5802.00 3 15 15.88 6 29 15.95 2.16 0.11 North Main 4429.69 0.15 3.13 2728.49 North Main 19.01 0.000170 each 1 40000 10865.00 3.15 18.86 7.87 12.59 0.000073 1.50 1942 68 225.60 0.09 3.14 12.55 5.08 2920.00 North Main reach 1 38000 14.19 5.64 14.24 0.000090 1 B4 2317 46 232.22 0.10 4262.00 3.14 North Main 38000 reach 1 3.14 15.66 6.20 15.74 0.000108 2.18 2663.29 237.32 0.11 North Main reach 1 38000 5802.00 3346,38 0.16 10865.0 3.14 18.49 7 77 18.65 0.000188 3.25 246.32 North Main reach i 0.10 12.43 0.000082 1.58 1844.9 217.19 12,39 5.13 North Main reach 1 36000 2920.00 3.15 1.94 2196.32 222.82 0.11 13.98 14.04 0.000102 North Mair reach 1 38000 4262.00 3.15 0.000124 2.30 251B.14 227.92 0.12 3.15 15.41 6.26 15.50 North Mair reach 1 36000 5802.00 18.24 36000 10865.00 3.15 7.85 0.000223 3.47 3132.23 237.35 0.17 North Main reach 1 1774.75 220.28 0.10 North Main reach 1 34000 2920.00 3.16 12.21 5.23 12.25 0.000095 1.65 2.01 2122.78 227.31 0.12 0.000116 North Mair reach 1 34000 4262 00 3 16 13.76 5.80 13.83 0.000140 2.38 2440.0 231.92 0.13 15.23 North Mair reach 1 34000 5802.00 3.16 15.14 6.39 0.18 17.76 0.000257 3.61 3009.48 240.17 North Mair reach 1 34000 10865.00 3.16 17.56 8.02 12.06 5.30 12.11 0.000101 1 69 1728.51 216.60 0.11 32548 2920.00 3.16 North Main reach 1 North Main reach 1 32548 4282.00 3.16 13.58 5.89 13.65 0.000124 2.07 2061.84 221.62 0.12 0.000151 2362.39 226.07 0.13 North Main 5802.00 3.16 14.93 6.48 15.02 2.46

| HEC-DAS F                               | June - 17 July 1 | しょう ししつしょ | ND601          |                     |              | A 7- 164    | 0 1 5 4     | (Cloud       | E.G. Slope 📗 | Vel Chni    | Flow Area   | Top Width    |               | # CH                                   |
|---|------------------|-----------|----------------|---------------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|---------------|--|
|   | Reach            | River Sta | Q Total        | Min Ch El           | W.S. Elev    |             |             |              | (ft/ft)      | (fVs)       | (6q ft)     | (ft)         |               |  |
| River                                   | (Jewa)           |           | (cfe)          | (ft)                | (ff)         | (ft)        |             | 17.36        | 0.000290     | 3.78        | 2870.89     | 233.4        | 10            | 0.1                                    |
| North Main                              | reach 1          | 32548     | 10865.00       | 3.16                | 17.          | 14          | 8.10        | 17.50        | - 5.5525-    |             |             |              |               |  |
| LADLES MARIE                            | TOBOT .          |           |                |                     | <u> </u>     |             | 5.30        | 12.10        | 0.000101     | 1.69        | 1727.54     |              |               | 0.                                     |
| North Main                              | reach 1          | 32504     | 2920.00        | 3.16                | 12.          |             | 5.89        | 13.64        | 0.000124     | 2.07        | 2080.61     |              |               | 0.                                     |
| North Main                              | reach 1          | 32504     | 4282.00        | 3.16                |              |             | 6.48        | 15.01        | 0.000151     | 2.46        | 2360.86     |              |               | ;                                      |
| North Main                              | reach 1          | 32504     | 5802.00        | 3.16                |              |             | 8.10        | 17.35        | 0.000291     | 3.79        | 2867.58     | 233.         | 36            |  |
|   | reach 1          | 32504     | 10865.00       | 3.16                | 1            |             |             |              |              |             |             |              | 27            |  |
|   |                  |           |                | 2.10                | 12           | .01         | 5.19        | 12.05        | 0.000092     | 1.63        | 1794.4      |              |               |  |
| North Main                              | reach 1          | 32000     | 2920.00        |                     | <del></del>  | 52          | 5.74        | 13.58        | 0.000115     | 2.00        | 2132.5      |              |               |  |
| North Main                              | reach:1          | 32000.    | 4262.00        | <del></del>         | +            | .85         | 8.30        | 14.94        | 0.000140     | 2.38        | 2437.0      | +            |               |  |
| North Main                              | reach 1          | 32000     | 5802.00        |                     |              | 1.98        | 7.86        | 17.19        | 0.000305     | 3,68        | 2955.9      | 260          | .97           |  |
| North Main                              | reach t          | 32000     | 10865.00       | 3.10                |              |             |             |              |              |             |             | B 222        | 70            |  |
| T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                  |           |                | 2.90                | 1            | 1.84        | 4.88        | 11.87        | 0.000085     | 1.58        |             |              | 7.33          |  |
| North Main                              | reach 1          | 30000.    | 2920.0         |                     |              | 3.30        | 5.43        | 13.36        | 0.000108     | 1.96        | -           |              | 1.30          |  |
| North Main                              | reach 1          | 30000.    | 4262.0         |                     |              | 1.58        | 5.98        | 14.66        | 0.000135     | 2.35        |             | <u>~</u> ——— |               |  |
| North Main                              | reach 1          | 30000.    | 5802.0         | <del></del>         |              | 8.44        | 7.53        | 16.62        | 0.000259     | 3.56        | 4432.2      | 2041         | -             |  |
| North Main                              | reacht 1         | 30000.    | 10865.0        | 2.3                 |              |             |             |              |              | <u> </u>    |             | 211          | 8.40          |  |
|   |                  |           |                | 2.9                 | 1            | 1.79        | 5.02        | 11.83        | 0.000108     |             | +           |              | 1.80          |  |
| North Main                              | reach 1          | 29585     | 3104.0         |                     |              | 3.24        | 5.53        | 13.31        | 0.000124     |             | +           |              | 6.47          |  |
| North Main                              | reach 1          | 29585     | 4305.0         |                     |              | 4.51        | 6.10        | 14.60        | 0.000153     |             |             |              | $\overline{}$ |  |
| North Main                              | reach 1          | 29586     | 5837.0         |                     |              | 6.27        | 7.64        | 16.50        | 0.000321     | 3.89        | 2786.       | 39 467       | 4.61          |  |
| North Main                              | reach 1          | 29585     | 10765.0        | 2.9                 | <del>~</del> | <del></del> |             |              |              | <b>↓</b>    | <del></del> |              | - 27          |  |
| ****                                    |                  |           | <u> </u>       |                     | -            | 11.78       | 5.02        | 11.83        | 0.00010      |             |             |              | 16.37         |  |
| North Main                              | reach 1          | 29523     | 3104.          |                     |              | 13.24       | 5.53        | 13.30        | 0.00012      |             |             |              | 21.77         |  |
| North Main                              | reach 1          | 29523     | 4305.          |                     |              | 14.50       | 6.10        | 14.59        | 0.00015      |             | _           | ···          | 26.43         |  |
| North Main                              | reach 1          | 29523     | 5837           |                     |              | 16.24       | 7.65        | 16.48        | 0.00032      | 3 3.9       | 0 2761      | .51 460      | 69.97         |  |
| North Main                              | reach 1          | 29523     | 10765.         | 00 2.               | 90           | 10.24       |             |              |              |             |             |              |               |  |
| LAPO DA TANDAL                          | a version of     | 11 11 11  |                |                     |              | 11 81       | 5.03        | 11.66        | 0.00010      |             |             |              | 23.05         |  |
| North Main                              | reach 1          | 28000.    | 3104.          |                     |              | 11.61       | 5.54        | 13.11        |              |             |             | ·            | 27.62         |  |
| North Main                              | reach 1          | 28000.    | 4305           |                     |              | 13.05       | 6.10        | 14.38        |              |             |             |              | 31.49         |  |
| North Main                              | reach 1          | 28000.    | 5837           |                     |              | 14.26       | 7.63        | 16.08        |              | 6 2         | 86 809      | 3.38 36      | 48.04         |  |
| North Main                              | reach 1          | 28000.    | 10765          | .00 2               | .90          | 15.99       | 7.00        |              |              |             |             |              |               |  |
| (AOI III INDAIL                         |                  |           | T              |                     |              |             | 5.04        | 11.42        | 0.0001       | 25 1.       | 83 169      |              | 19.83         |  |
| North Main                              | reach 1          | 28000     | 3104           | 1441                | .90          | 11.37       | 5.55        | 12.84        |              | 42 2.       | 15 200      |              | 225.23        |  |
| North Main                              | reach 1          | 26000.    | 4305           |                     | .90          | 12.77       | 6.12        | 14.0         |              | 70 2        | 48 277      |              | 689.08        |  |
|   | reach 1          | 26000.    | 5837           | <del>,</del>        | .90          | 13.95       |             | 15.6         |              |             | 34 608      | 3.904        | 594.08        |  |
| North Main                              | reach 1          | 26000     | 10765          | 5.00 2              | 90           | 15.48       | 7.68        |              |              |             |             |              |               |  |
| North Main                              | 1044             |           |                |                     |              |             | 400         | 11.1         | 6 0,0001     | 27 1        | 83 169      |              | 222.65        |  |
| N. of Blain                             | reach 1          | 24000.    | 3104           |                     | 2.90         | 11.11       | 4.93        | 12.5         | <del></del>  | _           | .09 247     | 11017        | 207.81        |  |
| North Main                              | reach 1          | 24000     | 430            |                     | 2.90         | 12.48       | 5.41        | 13.7         | <del></del>  |             | .18 426     | 30.29        | 818.29        |  |
| North Main                              |                  | 24000.    | 583            | 7.00                | 2.90         | 13.65       | 5.96        |              |              |             |             | 93.86        | 3096.82       |  |
| North Main                              | reach 1          | 24000.    | 1076           |                     | 2.90         | 15.42       | 7.46        | 15.4         | 0.000        | ~           | -           |              |               |  |
| North Main                              | reach 1          | 24000     |                |                     |              |             |             |              | 0.000        | 197         | .87 16      | 58.59        | 222.69        |  |
|   |                  | 22000.    | 310            | 4.00                | 2.90         | 10.84       | 4.92        | 10.9         |              |             |             |              | 239.08        |  |
| North Main                              | reach 1          | 22000.    | 430            | 5.00                | 2.90         | 12.17       | 5.39        | 12.2         |              |             |             | 43.17        | 322.78        |  |
| North Main                              | reach 1          | 22000.    |                |                     | 2.90         | 13.27       | 5.93        | 13.3         |              |             |             | 90.10        | 1402.11       |  |
| North Main                              | reach 1          | 22000.    | 1076           | 35.00               | 2.90         | 15.03       | 7.42        | 15.          | 25 0.000     |             |             |              |               |  |
| North Main                              | reach 1          | - 22,500. |                |                     |              |             |             |              | 82 0.000     | 144         | 1.93 16     | 10.45        | 215.16        |  |
|   |                  | 20000.    | 311            | 04.00               | 2.23         | 10.56       | 4.53        |              |              |             |             | 89.37        | 220.05        |  |
| North Main                              | reach 1          | 20000     | 43             | 05.00               | 2.23         | 11.84       | 5.03        |              |              |             |             | 111.72       | 223.87        |  |
| North Main                              | reach 1          | 20000.    | 58             | 37.00               | 2.23         | 12.84       | 5.59        | +            |              |             |             | 395.15       | 228.65        |  |
| North Main                              | reach 1          | 20000.    |                | 65.00               | 2.23         | 14.09       | 7.13        | 14           | 0.00         | <del></del> |             |              |               |  |
| North Main                              | reach 1          | 20000     |                |                     |              |             |             | <del> </del> | 60.00        | 0157        | 1.99 1      | 561.50       | 212.54        |  |
|   |                  | 19889     | 31             | 04.00               | 2.23         | 10.54       | 4,62        |              |              |             |             | 836.69       | 217.90        |  |
| North Main                              |                  | 19889     |                | 05.00               | 2.23         | 11.82       | 5.14        |              |              | 0235        |             | 055.48       | 221.57        |  |
| North Main                              |                  | 19889     |                | 37.00               | 2.23         | 12.82       | 5.72        |              |              | 0547        |             | 354.88       | 428.29        |  |
| North Main                              |                  | 19889     |                | 65.00               | 2.23         | 14.02       | 7.30        | <u> </u>     | 0.00         | +           |             |              |               |  |
| North Main                              | reach 1          | 1,000     |                |                     |              |             |             | +            | 0.00         | 0157        | 1.99 1      | 559.65       | 212.50        |  |
| -                                       |                  | 19835     | 3              | 104.00              | 2.23         | 10.53       | 4.63        | <del>~</del> |              | 0183        |             | 834.47       | 217.86        |  |
| North Main                              |                  | 19835     | 4              | 305.00              | 2.23         | 11.81       | 5.14        |              | .,,,,        | 0237        |             | 052.49       | 221.52        |  |
| North Main                              |                  | 19835     | 5              | 837.00              | 2.23         | 12.80       | 5.7:        |              |              | 0552        |             | 2341.30      | 418.38        |  |
| North Main                              |                  | 19835     | 10             | 765.00              | 2.23         | 13.98       | 7.3         |              | 7,00         |             |             |              |               |  |
| North Mair                              | r residir i      |           |                |                     |              |             | <del></del> | <del> </del> | 0.00         | 38100       | 2.03        | 1527.88      | 211.95        |  |
| 20 20 20 2                              | n reach 1        | 18000.    | 3              | 104.00              | 2.22         | 10.23       | 4.5         |              |              | 00197       |             | 1790.59      | 216.68        |  |
| North Mail                              |                  | 18000     | 1 4            | 305.00              | 2.22         | 11.46       | 5.0         |              | ****         | 00259       |             | 2278.06      | 1944.81       |  |
| North Mak                               |                  | 18000     |                | 837.00              | 2.22         | 12.34       | 5.6         |              |              | 00594       |             | 4440.53      | 5103.75       |  |
| North Mai                               |                  | 18000     | 10             | 765.00              | 2.22         | 12.96       | 7.1         | !"           | 0.23         |             | - $+$ $-$   |              |               |  |
| North Mai                               | n reach 1        | 18000.    | <del></del> -  |                     |              |             |             |              | 0.04         | 00182       | 2.09        | 1483.04      | 208.47        |  |
|   |                  | 16000.    |                | 3104.00             | 2.22         | 9.67        | 4.3         | <u> </u>     |              | 00182       |             | 1728.18      | 212.92        | 1                                      |
| North Mai                               |                  | 16000.    |                | 4305.00             | 2.22         | 11.03       |             |              |              | 000082      |             | 11935.73     | 6914.24       |  |
| North Mai                               |                  | 18000     |                | 5837.00             | 2.22         | 12.20       |             |              |              | 000115      |             | 5447.00      | 6931.67       | L_                                     |
| North Ma                                |                  | 16000     |                | 0765.00             | 2.22         | 12.71       | 6.          | .94          | 12.73 0.0    |             |             |              |               | <u> </u>                               |
| North Ma                                | in reach 1       | 10000     |                |                     |              |             |             |              |              | 000181      | 2.07        | 1496.51      | 212.55        | 1                                      |
|   |                  |           |                | 3104.00             | 2.03         | 9.51        |             | .07          |              | 000220      | 2.49        | 1729.70      | 215.77        | ــــــــــــــــــــــــــــــــــــــ |
| North Ma                                |                  | 14000     |                | 4305.00             | 2.03         | 10.60       |             | -            |              |             | 2.91        | 2003.73      | 224.81        |  |
| North Me                                |                  | 14000     | <del>`</del> - | 5837.00             | 2.03         | 11.85       |             |              | *****        | 000263      |             | 14864.69     | 6924.69       |  |
| North Ma                                |                  | 14000     |                | 0765.00             | 2.03         | 12.46       | 6           | .64          | 12.49 0.     | 000125      | 1.56        |              |               | $\Gamma$                               |
| North Ma                                | ain reach 1      | 14000     | <del></del> -  |                     |              |             |             |              |              | 222212      | 2.20        | 1408.88      | 208.61        | 1                                      |
|   |                  |           |                | 3104.00             | 1.79         | 9,10        | 3           | 3.96         |              | 000218      | 2.66        | 1617.68      | 212.03        | _                                      |
|   | ain reach 1      | 12000     |                | 4305.00             | 1.79         | 10.10       |             | 1.48         |              | .000268     | 3.13        | 1864.49      | 218.01        | _                                      |
| North Ma                                |                  |           |                | -000.00             |              |             |             |              | 11.40 0      | .000316     | J. 13       |              |               | _                                      |
| North Ma                                | ein reach 1      | 12000     |                | 5927 (0)            | 1.79         | 11.25       |             | 5.03         |              |             | 0.00        | 23858 43     | 13721.1       |  |
|   |                  | 12000     | )              | 5837.00<br>10765.00 | 1.79         | 11.25       |             | 6.58         |              | 000028      | 0.90        | 33858.03     | 13721.13      | +-                                     |

| River       | Plan P 10<br>Reach | River Sta | Q Total  | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev     | E.G. Slope | Vel Chnl | Flow Area | Top Width | Froude # Chl |
|-------------|--------------------|-----------|----------|-----------|-----------|-----------|---------------|------------|----------|-----------|-----------|--------------|
| 99-2 AKR 18 | 51 5 4 54 A 18 0   |           | (cfs)    | (ft)      | (ft)      | (ft)      | ( <b>f</b> t) | (ft/ft)    | (fi/a)   | (sq ft)   | (ft)      |              |
| North Main  | reach 1            | 10000     | 4357.00  | 1.80      | 9.46      | 4.45      | 9.59          | 0.000352   | 2.90     | 1503.88   | 213.74    | 0.19         |
| North Main  | reach 1            | 10000.    | 5848.00  | 1.80      | 10.46     | 5.00      | 10.64         | 0.000472   | 3.39     | 1725,58   | 241,00    | 0.22         |
| North Main  | reach 1            | 10000.    | 10776.00 | 1.80      | 11,75     | 6.54      | 12.18         | 0.000999   | 5.24     | 2056.49   | 262.03    | 0.33         |
| North Main  | reach 1            | 8000.     | 3292.00  | 1.73      | 7.80      | 3.99      | 7.93          | 0.000470   | 2.89     | 1139,09   | 202,36    | 0.21         |
| North Main  | reach 1            | 8000.     | 4457.00  | 1.73      | 8.50      | 4.48      | 8.69          | 0.000593   | 3.48     | 1281.11   | 204.75    | 0.25         |
| North Main  | reach 1            | 8000      | 5868.00  | 1.73      | 9.20      | 5.01      | 9.48          | 0.000734   | 4.12     | 1425.21   | 207.20    | 0.28         |
| North Main  | reach 1            | 8000.     | 10746.00 | 1.73      | 11.00     | 11.00     | 11.07         | 0.000298   | 3.00     | 10500.95  | 6877.30   | 0.18         |
| North Main  | reach 1            | 6000.     | 3292.00  | 1,77      | 6.86      | 3.68      | 6.97          | 0.000486   | 2,66     | 1307,36   | 296.77    | 0.21         |
| North Main  | reach 1            | 6000.     | 4457.00  | 1.77      | 7.23      | 4.11      | 7.40          |            | 3,34     | 1416.89   | 301.04    | 0.26         |
| North Main  | reach 1            | 8000.     | 5868.00  | 1.77      | 7.43      | 4.58      | 7.69          | 0.001072   | 4.23     | 1475.75   | 303.30    | 0.32         |
| North Main  | reach 1            | 8000,     | 10746.00 | 1.77      | 7.67      | 5.89      |               | 0.003108   | 7.39     | 1548.94   | 306.11    | 0.55         |
|             | 9 123 4 4 4        |           |          |           |           |           |               |            |          |           |           |              |
| North Main  | reach 1            | 4058      | 3292.00  | 1.84      | 5.80      | 3.41      | 5.90          | 0.000821   | 2.53     | 1303.59   | 352.71    | 0.23         |
| North Main  | reach 1            | 4058      | 4457.00  | 1.84      | 6.15      | 3.74      | 6.22          | 0.000511   | 2.42     | 4852.86   | 16473.96  | 0.21         |
| North Main  | reach 1            | 4058      | 5868.00  | 1.84      | 6.37      | 4.10      | 6.41          | 0.000408   | 2.24     | 8558.91   | 16860.40  | 0.19         |
| North Main  | reach 1            | 4056      | 10748.00 | 1.84      | 6.85      | 5.15      | 6.87          | 0.000303   | 2.06     | 16972.36  | 17801.39  | 0.17         |
|             |                    |           | 2000 00  | 1.84      | 5.79      | 3.41      | 5,89          | 0.000629   | 2.53     | 1298.63   | 352.64    | 0,23         |
| North Main  | reach 1            | 4024      | 3292.00  |           | 6.13      | 3.74      | 6.21          |            | 2.47     | 4656,88   | 16453.51  | 0.22         |
| North Main  | reach 1            | 4024      | 4457.00  | 1.84      | 6.36      | 4.10      |               |            | 2.27     | 8399,91   | 16844.12  | 0,19         |
| North Main  | reach 1            | 4024      | 5868.00  | 1.84      | 6.85      | 5.15      | <del></del>   |            | 2.08     |           | 17801.39  | 0.17         |
| North Main  | reach 1            | 4024      | 10746.00 | 1.84      | 0.63      | 5.15      | 0.57          | 0.000303   | 2.00     | 10372.00  | 17601.39  | 0.17         |
| North Main  | reach 1            | 2000.     | 3575.00  | 1.72      | 4.16      | 2.81      | 4.25          | 0.001056   | 2.41     | 1484.15   | 642.56    | 0.28         |
| North Main  | reach 1            | 2000      | 4920.00  | 1.72      | 4.43      | 3.05      | 4,56          | 0.001398   | 2.97     | 1654.04   | 644.18    | 0.33         |
| North Main  | reach 1            | 2000.     | 6522.00  | 1.72      | 4.68      | 3.32      | 4.88          | 0.001803   | 3.59     | 1816.57   | 645.72    | 0.38         |
| North Main  | reach 1            | 2000.     | 10850.00 | 1.72      | 5.13      | 3.91      | 5.54          | 0.003049   | 5,14     | 2109.80   | 648.49    | 0.50         |
|             |                    |           |          |           |           |           |               |            |          |           |           |              |
| North Main  | reach 1            | 0.        | 3575.00  |           | 3.59      |           |               |            | 0.77     | 6745.72   | 7371.77   | 0.10         |
| North Main  | reach t            | 0.        | 4920.00  |           | 3.85      |           |               |            | 0.84     |           | 7646.04   | 0.10         |
| North Main  | reach 1            | 0.        | 6522.00  | 1.41      | 4.10      |           |               |            | 0.90     |           | 10307.77  | 0.11         |
| North Main  | reach 1            | 0.        | 10850.00 | 1.41      | 4.62      | 2.63      | 4.63          | 0.000155   | 1.03     | 16375.00  | 10712.36  | 0.11         |

|                            | Reach  | River Sta      | Q Total<br>(cfs) | Min Ch El     | W.S. Elev      | Crit W.S.   | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area  | Top Width | Froude # Chi |
|----------------------------|--|----------------|------------------|---------------|----------------|-------------|-----------|------------|----------|------------|-----------|--------------|
| La Sal Vieja               | Fleach 1   | 15060          | 843.00           | (ft)<br>24.30 | (H)            | (ft)        | (ft)      | (f/h)      | (ft/s)   | (aq ft)    | (ft)      |              |
| La Sal Vieja               | Reach 1  | 15080          | 1423.00          | 24.30         | 31.46          | 26.60       | 31.53     | 0.000360   | 2.17     | 388.67     | 68.62     | 0.           |
| La Sal Vieja               | Reach 1  | 15060          | 1909.00          | 24.30         | 34.02          | 27.50       | 34.12     | 0.000333   | 2.46     |            | 78.89     | D.           |
| La Sal Vieja               | Reach t  | 15080          | 1172.00          | 24.30         | 35.82<br>39.31 | 28.15       | 35.93     | 0.000317   | 2.63     |            | 86.07     | 0.           |
| Marin No.                  |  |                | 1172.00          | 24.30         | 39.31          | 27.13       | 39.33     | 0.000043   | 1.12     | 1050.78    | 100.03    | 0.0          |
| La Sal Vieja               | Reach 1  | 15050          | 843.00           | 24.30         | 31.45          | 20.00       | 21.52     | 0.000004   |          |            | ·         |              |
| La Sal Vieja               | Reach 1  | 15050          | 1423.00          | 24.30         | 34.02          | 26.60       | 31.52     | 0.000361   | 2.17     | 388,30     | 68.60     | 0.1          |
| a Sal Vieja                | Reach 1  | 15060          | 1909.00          | 24.30         | 35.81          | 27.50       | 34.11     | 0.000334   | 2.46     | 577.50     | 78.87     | 0.1          |
| a Sal Vieja                | Reach 1  | 15050          | 1172.00          |               |                | 28.15       | 35.92     | 0.000317   | 2.63     | 725.68     | 86.05     | 0.1          |
|                            |  | 100,00         | 1172.00          | 24.30         | 39.31          | 27.13       | 39.33     | 0.000043   | 1.12     | 1050.74    | 100.03    | 0.0          |
| La Sal Vieja               | Reach 1  | 15010          | 843.00           | 24.00         |                |             |           |            |          |            |           |              |
| La Sal Vieja               | Reach 1  | 15010          |                  | 24.30         | 31.45          | 26.60       | 31.52     | 0.000362   | 2.17     | 387.93     | 68.58     | 0.1          |
| La Sal Vieja               | Reach 1  |                | 1423.00          | 24.30         | 34.01          | 27.50       | 34.11     | 0.000334   | 2.47     | 577.14     | 78.85     | 0.           |
| La Sal Vieja               | Reach 1  | 15010          | 1909.00          | 24.30         | 35.81          | 28.15       | 35.92     | 0.000317   | 2.63     | 725.33     | 86.04     | 0.1          |
| Ja Sai vieja               | Litedrate 1  | 15010          | 1172.00          | 24.30         | 39.31          | 27.13       | 39.33     | 0.000043   | 1.12     | 1050.69    | 100.03    | 0.0          |
| a Sal Vieja                | Reach 1  |                |                  |               |                |             |           |            |          |            |           |              |
| La Sal Vieja               |  | 15000          | 843.00           | 24.30         | 31.44          |             | 31.51     | 0.000363   | 2.18     | 387.56     | 68,56     | 0.1          |
| e Sal Vieja                | Fleach 1   | 15000          | 1423.00          | 24.30         | 34.01          |             | 34.10     | 0.000335   | 2.47     | 576.79     | 78.83     | 0.1          |
|                            | Reach 1  | 15000          | 1909.00          | 24.30         | 35.81          |             | 35.91     | 0.000318   | 2.63     | 724.97     | 86.02     | 0.1          |
| a Sal Vieja                | Reach 1  | 15000          | 1172.00          | 24.30         | 39.31          |             | 39.33     | 0.000043   | 1.12     | 1050.65    | 100,03    | 0.0          |
|                            |  |                |                  |               |                |             |           |            |          |            |           |              |
| a Sal Vieja                | Reach 1  | 12500          | 843.00           | 23.30         | 30.55          |             | 30.62     | 0.000343   | 2.13     | 395.28     | 69,01     | 0.1          |
| a Sal Vieja                | Reach 1  | 12500          | 1423.00          | 23.30         | 33,20          |             | 33.29     | 0.000311   | 2.40     | 591.81     | 79.59     | 0.1          |
| a Sai Vieja                | Reach 1  | 12500          | 1909.00          | 23.30         | 35.04          |             | 35.14     | 0.000295   | 2.56     | 745.11     | 86.95     | 0.1          |
| .a Sal Vieja               | Reach 1  | 12500          | 1172.00          | 23.30         | 39.22          |             | 39.24     | 0.000034   | 1.02     | 1143.58    | 103.68    | 0.1          |
| 4,720,50,360               |  | 0.00           |                  |               |                |             |           |            |          | ,,,,,,,,,, | 100.08    | 0.0          |
| a Sal Vieja                | Reach 1  | 9650           | 843.00           | 22.16         | 29.63          |             | 29.70     | 0.000308   | 2.05     | 410.45     | 69.89     |              |
| a Sal Vieja                | Reach 1  | 9650           | 1423.00          | 22,16         | 32.36          |             | 32.45     | 0.000278   | 2.05     | 616,49     |           | 0.1          |
| a Sal Vieja                | Reach 1  | 9650           | 1909.00          | 22,16         | 34.25          |             | 34.35     | 0.000278   |          |            | 80.82     | 0.1          |
| a Sal Vieja                | Reach 1  | 9650           | 1172.00          | 22.16         | 39.14          |             | 39.16     | 0.000263   | 2.46     | 776.09     | 88.37     | 0.1          |
| 12.13 4.1.5.               |  | 182 2 3 3 2 1  |                  |               | 35.14          |             | 38, 10    | 0.000028   | 0.93     | 1256.41    | 107.95    | 0.0          |
| a Sal Vieja                | Reach 1  | 7500           | 843.00           | 21.30         | 29.01          |             | 20.03     |            |          |            |           |              |
| a Sal Vieja                | Reach 1  | 7500           | 1423.00          | 21.30         | 31.80          |             | 29.07     | 0.000275   | 1.97     | 427.22     | 70.84     | 0,1          |
| a Sal Vieja                | Reach 1  | 7500           | 1909.00          | 21.30         | 31.80          |             | 31.88     | 0.000249   | 2.22     | 640.82     | 82.02     | 0.1          |
| a Sal Vieja                | Reach 1  | 7500           | 1172.00          |               |                |             | 33.81     | 0.000237   | 2.37     | 805.23     | 89.68     | 0.1          |
|                            |  | 7,000          | 1172.00          | 21.30         | 39.09          |             | 39.10     | 0.000022   | 0.87     | 1344.64    | 111.16    | 0.0          |
| a Sel Viela                | Reach 1  | 2200           |                  |               |                |             |           |            |          |            |           |              |
| a Sal Vieja                | The state of the s | 4100           | 843.00           | 19.94         | 28.19          |             | 28.25     | 0.000214   | 1.81     | 466.48     | 73.02     | 0.1          |
| a Sal Vieja<br>a Sal Vieja | Reach 1  | 4100           | 1423.00          | 19,94         | 31.05          |             | 31.12     | 0.000202   | 2.06     | 691.39     | 84.45     | 0,1          |
|                            | Reach 1  | 4100           | 1909.00          | 19,94         | 33.00          |             | 33.07     | 0.000196   | 2.21     | 863.10     | 92.22     | D, 1:        |
| a Sal Vieja                | Resch 1  | 4100           | 1172,00          | 19.94         | 39.03          |             | 39.04     | 0.000016   | 0.79     | 1492.23    | 116.35    | 0.0          |
|                            |  | 3.3.8          |                  |               |                |             |           |            |          |            |           |              |
| a Sal Vieja                | Reach 1  | 1000           | 843.00           | 18.70         | 27.63          | 21.00       | 27.67     | 0.000160   | 1.63     | 516.79     | 75.73     | 0,1          |
| a Sal Vieja                | Reach f  | 1000           | 1423.00          | 18.70         | 30.50          | 21.91       | 30.56     | 0.000160   | 1.90     | 750.79     | 87.21     | 0.1          |
| a Sal Vieja                | Fleach 1   | 1000           | 1909.00          | 18.70         | 32.46          | 22.55       | 32.52     | 0.000160   | 2.06     | 928.62     | 95.02     | 0.12         |
| a Sal Vieja                | Reach 1  | 1000           | 1172,00          | 18.70         | 39.00          | 21.54       | 39.00     | 0.000007   | 0.58     | 4567.38    | 1082.00   | 0.03         |
|                            |  | 34 17 (13, MH) |                  |               |                |             |           |            |          |            | 1002.00   |              |
| ymondville                 | Reach 8  | 296300         | 395.00           | 70.00         | 78.74          |             | 78.79     | 0.000275   | 1.68     | 234.91     | 48.72     | 0.13         |
| ymondville                 | Reach 8  | 298300         | 887.00           | 70.00         | 81.40          |             | 81.41     | 0.000016   | 0.47     | 4788.69    | 3000.00   |              |
| ymondville                 | Reach 8  | 296300         | 1645.00          | 70.00         | 84.16          |             | 84.16     | 0.000002   | 0.22     | 13057.09   |           | 0.0          |
| rymondville                | Reach 8  | 296300         | 4983.00          | 70.00         | 87.11          |             | 87.12     | 0.000004   | 0.35     |            | 3000.00   | 0.0          |
|                            | A. S. A. W. S.   |                |                  |               |                |             |           | 0.000004   | 0.35     | 21917,61   | 3000.00   | 0.02         |
| ymondvilie                 | Reach B  | 295300         | 395.00           | 69.73         | 78.47          |             | 78.51     | 0.000276   | 4.00     |            |           |              |
| ymondville                 | Reach 8  | 295300         | 887.00           | 69.73         | 81.39          | <del></del> | 81.39     |            | 1.68     | 234.64     | 48.70     | 0.14         |
| ymondville                 | Reach B  | 295300         | 1845.00          | 69.73         | 84.15          |             | 84.15     | 0.000013   | 0.43     | 5133,63    | 3000.00   | 0.03         |
| ymandville                 | Reach 8  | 295300         | 4983.00          | 69.73         | 87.10          |             |           |            | 0.22     | 13418,92   | 3000.00   | 0.01         |
|                            | Tarata de As   | 98 V. 8 88 F   | 4000.00          | 05.13         | 97.10          |             | 87.11     | 0.000004   | 0.35     | 22275.92   | 3000.00   | 0.02         |
| ymondville                 | Fleach 8   | 293500         | 395,00           | 69.23         | 77.98          | 70 70       | 70.00     | 0.000      |          |            |           |              |
| ymandville                 | Reach 8  | 283500         | 887.00           |               |                | 72.70       | 78.03     | 0.000274   | 1.68     | 235.25     | 48.76     | 0.13         |
| ymondville                 | Reach 8  | 293500         | 1645.00          | 69.23         | 81.25          | 74.33       | 81.32     | 0.000291   | 2.10     | 421,60     | 65.13     | 0.15         |
| ymondville                 | Reach 8  | 293500         |                  | 69.23         | 84.13          | 75.99       | 84.14     | 0.000072   | 1.19     | 3255,44    | 3000.00   | 0.09         |
| ,                          | , measure U  | MENUAL STATES  | 4983.00          | 69.23         | 87.08          | 80,24       | 87.08     | 0.000025   | 0.81     | 12111.96   | 3000.00   | 0.05         |
| ymondville                 | Reach 8  | 201.000        |                  |               |                |             |           |            |          |            |           |              |
|                            |  | 291800         | 395.00           | 68.76         | 77.52          | 72.23       | 77.56     | 0.000273   | 1.68     | 235,50     | 48.79     | 0.13         |
| /mondville                 | Reach 8  | 291800         | 887.00           | 68.76         | 80.76          | 73.86       | 80.82     | 0.000295   | 2.11     | 419.73     | 64.98     | 0.19         |
| ymondville                 | Reach 8  | 29180G         | 1645.00          | 68.76         | 83.80          | 75.52       | 83.91     | 0.000328   | 2.57     | 641.04     | 80.22     | 0.16         |
| ymondville                 | Reach 8  | 291800         | 4983.00          | 68.78         | 87.04          | 79.77       | 87.05     | 0.000021   | 0.72     | 12263.54   | 3000.00   | 0.05         |
|                            |  |                |                  |               |                |             |           |            |          |            |           |              |
| mondville                  |  | 289400         | 395.00           | 68.10         | 76.87          | 71.57       | 76.91     | 0.000272   | 1.67     | 235.97     | 48.83     | 0.13         |
| mondville                  | Reach 8  | 289400         | 887.00           | 68.10         | 80.03          | 73.20       | 80.10     | 0.000303   | 2.13     | 415.58     | 64.66     | 0.15         |
| ymondville                 |  | 289400         | 1645.00          | 68.10         | 82.99          | 74.86       | 83.10     | 0.000345   | 2.62     | 628.93     | 79.46     | 0.16         |
| mondville                  | Reach 8  | 289400         | 4983.00          | 68.10         | 86.92          | 79.11       | 86.95     | 0.000121   | 1.81     | 5726.69    | 3000.00   |              |
|                            |  | (44)           |                  |               |                |             |           |            | 1.01     | 3720.03    | 3000,00   | 0.11         |
| mondville                  | Reach 8  | 287000         | 395.00           | 67,44         | 76.22          | 70.91       | 76.26     | 0.000270   | 107      | 200 15     |           |              |
| mondville                  |  | 287000         | 887.00           | 67.44         | 79.29          | 72.54       | 79.36     | 0.000270   | 1.67     | 236.45     | 48.88     | 0.13         |
| mondville                  |  | 287000         | 1645.00          | 67.44         | 82.13          | 74.20       | 82.24     |            | 2.16     | 410.38     | 64.26     | 0.15         |
| mondville                  |  | 287000         | 4983.00          | 67.44         | 86.37          | 78.45       |           | 0.000369   | 2.68     | 612.93     | 78.45     | 0.17         |
|                            |  |                | -200.00          | 07.44         | 00.07          | 10.45       | 86.45     | 0.000424   | 2.21     | 2251.69    | 451.26    | 0.17         |
| mondville                  | Reach 8  | 205100         | 205.00           |               | 75 51          |             |           |            |          |            |           |              |
| mondville                  |  | 285100         | 395.00           | 66.91         | 75.71          | 70.38       | 75.75     | 0.000267   | 1.66     | 237.37     | 48.97     | 0.10         |
|                            |  | 285100         | 887.00           | 66.91         | 78.68          | 72.01       | 78.76     | 0.000323   | 2.19     | 405.43     | 63.87     | 0.15         |
| mondville                  |  | 285100         | 1645.00          | 66.91         | 81.40          | 73.67       | 81.51     | 0.000396   | 2.76     | 597.02     | 77.42     | 0.17         |
| mondville                  | Reach 8  | 285100         | 4983.00          | 66.91         | 85.41          | 77.92       | 85.50     | 0.000599   | 2.36     | 2111.44    | 497.48    | 0.20         |
|                            |  |                |                  |               |                |             |           |            |          |            |           |              |
| rmondville                 |  | 289500         | 395.00           | 66.47         | 75.27          | 69.94       | 75.32     | 0.000266   | 1.66     | 237.75     | 49.01     | 0.13         |
| mondville                  |  | 263500         | 887.00           | 66.47         | 78.16          | 71.57       | 78.23     | 0.000336   | 2.22     | 399.76     | 83.42     | 0.16         |
| mondville                  | Reach 8  | 283500         | 1645.00          | 66.47         | 80.73          | 73.24       | 80.85     | 0.000429   | 2.84     | 579.60     |           | 9.10         |

HEC DAS Plan D 25% 3 (Continued)
Reach River Ste Q Total E.G. Slope Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Chnt Flow Area Top Width Froude # Chi (cla) (ft). (ft) (ft) (ft) (fVft) (ft/s) (# pa) (ft): 66.47 84.67 77.48 84.77 0.000381 3.01 1944.93 raymondville Reach 8 283500 4983.00 2779.57 0.20 395.00 66.00 74.82 74.87 1.65 238.75 49.12 гаутпологойній Reach 8 281800 0.000263 0.13 887.00 66.00 77.57 77.65 0.000353 2.26 392.31 62 83 0.16 raymondville 281800 1845 00 66.00 80.31 80.35 0.000197 1.90 2201.48 3000 00 0.16 Reach 8 281800 raymondville Reach 8 281800 4983.00 66.00 84.68 84.68 0.000012 0.59 15286.11 3000.00 0.04 74.24 1.73 414.00 65.42 68.98 74.29 0.000289 238,75 49.12 0.14 raymondville Reach 8 279700 75.89 70.30 75.95 2.08 386,08 62.34 0.15 Reach 8 804.00 65.42 0.000303 raymondville 279700 711.70 1329.28 raymondville 1447.00 79.75 71.80 79.84 0.000312 2.43 0.15 279700 0.000064 1.35 5838.65 2145.89 0.08 naymondville Reach 8 279700 4526.00 65.42 84.61 75.98 84.63 ech P 275500 414 00 64 28 73.00 67.82 73.05 0.000303 1.76 234.63 48.70 0.14 raymondville 376.34 Reach 8 275500 804.00 64.26 75.57 89,14 75.84 0.000324 2.14 61.55 0.15 0.000353 2.55 566.48 1447.00 64.26 78.35 70.64 75.43 raymondville Reach 8 275500 78.45 0.16 64.26 74.82 83.97 1039,68 102.09 0.24 4526.00 83.68 0.000684 4.35 275500 raymondville Reach 8 273500 414.00 63.71 72.38 67.26 72.43 0.000315 1.79 231.27 48 35 0.14 raymondville Reach 8 804.00 63.71 74.90 68.59 74.98 0.000341 2.1B 369.10 60.96 0.16 raymondville 273500 raymondville Reach 8 1447.00 63.71 77.61 70.09 77.72 0.000377 2.62 552.62 74.50 0.17 raymondville Reach 8 273500 4528.00 63.71 82.02 74.27 82.39 0.000921 4.87 929.50 96.54 0.28 414.00 63.38 72.00 72.05 0.000325 1.61 228.64 48.08 0.15 Reach 8 272300 raymondville 363,65 60.51 804.00 63.38 74.48 74.56 0.000355 2.21 0.16 raymondville Reach 8 272300 raymondville 1447.00 63.38 77.14 77.25 0.000396 2.67 542.44 73.82 0.17 Fleach 8 272900 4526.00 63.36 80.64 81,10 0.001242 5.45 831.14 91.30 0.32 272300 71.37 1.86 337.75 71.32 68.40 0.000349 222.63 0.15 raymondville Reach B 270300 414.00 62.83 62.83 73.73 67.71 73.82 0.000388 2.29 351.80 881.13 0.17 804.00 raymondville Reach 8 270300 76.44 1447.00 62.83 76.33 69.21 0.000422 543.54 1605,14 0.24 raymondville Reach 8 270300 2.50 73.39 79.98 0.000268 3632,09 2970.43 0.16 raymondville 4526.00 79.92 Reach 8 270300 raymondville 46.40 0.16 Panah A 268100 414.00 62.22 70.50 65.78 70.56 0.000393 1.95 212.79 raymondville 57.94 Reach 8 268100 804.00 62.22 72.81 67.10 72.90 0.000448 2.41 333.19 0.18 68.60 75.41 491.43 70.28 75.28 0.000515 2.94 0.20 1447.00 62.22 raymondville Reach 8 268100 78.03 72.78 78.67 704.05 84.05 0.39 0.001933 raymondville Reach 8 268100 4526.00 62.22 266400 61.75 65.31 69.84 0.000458 2.08 201.00 45 11 0.17 raymondville Reach 6 414.00 69.77 0.000535 raymondville 804.00 61.75 71.96 66 63 72.07 2.58 311.87 1195.24 0.19 Reach 8 raymondville 266400 1447.00 61.75 74.36 68,13 74.49 0.000569 2.92 495.27 1583.90 0.27 Reach 8 Reach 8 6400 4526.00 61.75 77.49 72.33 77.54 0.000267 2.34 3895.24 3000.00 0.18 54.68 2.43 170.49 0.21 68.44 68.53 0.000711 revmondville Reach 8 264100 414.00 61.12 51.25 70.37 56.00 70.52 0.000888 3.09 260.14 0.24 raymondville 264100 804.00 61.12 Reach 8 264100 72.57 67.50 0.000988 3.76 384 98 62 25 0.27 raymondvill 1447.00 61.12 72.79 raymondville 4526.00 71.68 77.01 0.000219 2.09 4275.67 3000,00 0.15 Reach 8 264100 61.12 76.98 24.38 ach 8 282450 414.00 60.66 64.54 64.22 65.36 0.013368 7.27 56.96 0.84 65.54 67.47 126.71 35.95 0.60 0.005924 6.34 raymondville Reach 8 262450 804.00 60.66 66.85 68.85 67.05 69.60 6.93 208.83 0.57 262450 1447.00 60.66 0.005053 raymondville Reach 8 262450 60.66 75.22 71.22 78.05 0.002838 7.32 661.96 1539.93 0.57 raymondville 4526.00 Reach 8 63,25 raymondville Reach 8 260550 529.00 56.97 63,35 63.40 0.000366 1.88 281.31 0.18 Reach 8 280550 986.00 58.97 65 85 65.73 0.000365 2.22 443.17 77.09 0.16 68.55 2.55 601.32 Reach 8 200650 1536.00 56.97 67.56 67.66 0.000387 0.17 raymondville 74.11 0.000483 1283.74 126.61 0.20 raymondvilla Reach 8 260550 4675.00 56.97 73.90 3.64 56.49 62.88 62.93 0.000363 1 88 281 98 63.31 0.16 Reach 8 250250 529.00 raymondville raymondville Reach 8 986.00 56,49 65.18 65.26 0.000363 2.22 444.02 77.16 0.16 259250 raymondville Reach 8 1536.00 56.49 67.06 87.16 0.000390 2.56 599.30 88,41 0.17 125.74 Reach B 250250 4675.00 56.49 73.28 73.49 0.000482 3.69 1265.48 0.21 raymondville 63.29 0.16 62.48 0.000364 1.88 281.70 529.00 56.04 62.42 raymondville Reach 8 258000 443.66 77.13 0.16 Reach 8 258000 986.00 56.04 84.73 64.80 0.000384 2.22 raymondville 0.000397 raymondville Reach 6 258000 1536.00 58.04 66.57 66 67 2.58 595.48 88.15 0.17 raymondville Reach 8 4675.00 56.04 72.66 72.88 0.000505 3.76 1243.68 124,70 0.21 61.67 1.87 282.27 63.34 0.16 raymondville Reach 8 255800 529.00 55.23 61.62 0.000362 77.18 0.16 64.00 2.22 444.28 55.23 63.93 0.000363 raymondville Reach 8 255800 986.00 2.61 588 36 87 67 0.18 255800 1536.00 55.23 65.87 65.78 0.000410 raymondville Reach 8 0.00055 3.91 1197.11 122.44 0.22 raymondville Reach 6 255800 4675.00 55.23 71.47 71.71 raymondville Reach 8 252200 529.00 53.92 60.33 60.39 0.000357 1.86 283.75 63.48 0.18 444.81 D.16 77.22 raymondville Reach 8 252200 988 00 53 92 62.62 62.70 0.000362 2.22 566.48 0.19 64.23 0.000455 2.71 Reach 8 252200 1536.00 53.92 64.11 115.89 0.25 raymondville 69.07 69.37 0.000762 4.38 1067.14 Reach 8 252200 4675.00 53.92 529.00 53.24 59.68 59 73 0.000352 1.85 285.29 63.62 0.15 250350 raymondville Reach 8 Reach 8 250360 986.00 53.24 61.96 62.03 0.000360 2.21 445.76 77.29 0.16 raymondville 0.19 raymondville 1536.00 53.24 63,23 63.35 0.000496 2.80 548,77 84.91 949.24 109.61 0.29 raymondville Reach 8 250350 4675.00 53.24 67.34 67.72 0.001044 4.92 285.32 63 83 0.15 52.72 59.16 54.90 59.21 0.000352 1.85

248900

529.00

raymondville

Reach 8

| River                        | Plan: D 25%<br>Reach                    | River Sta        | Q Total           | Min Ch El      | W.S. Eley  | Crit W.S.  | E.G. Elev      | E.G. Slope                                       | Vel Chril    | Flow Area         | Top Width  | Froude # Chi |
|------------------------------|---|------------------|-------------------|----------------|--|--|----------------|--|--------------|-------------------|--|--------------|
|                              |   |                  | (cfs)             | (ft)           | (ft)   | (ft)   | (ft)           | (8/8)  | (fVs)        | (ft pe)           | (ft)   |              |
| raymondville                 | Reach 8                                 | 248900           | 986.00            | 52.72          | 61.44  | 55.89  | 61.51          | 0.000360   | 2.21         | 445.83            | 77.30  | 0,16         |
| raymondville                 | Reach 6                                 | 248900           | 1536.00           | 52.72          | 62.48  | 56.84  | 62.59          |  | 2.91         | 528.02            | 83.44  | 0.20         |
| raymondville                 | Reach B                                 | 248900           | 4675,00           | 52.72          | 65.22  | 80,30  | 65.78          | 0.001764   | 5.98         | 781.39            | 100.01   | 0.38         |
| raymondville                 | Reach 8                                 | 245400           | 529.00            | 51,44          | E7 00  |  | 58.01          | 0.000335   | 1 20         | 290,47            | 84.11  | 0.45         |
| raymondville                 | Reach 8                                 | 245400<br>245400 | 986.00            | 51.44          | 57.96<br>60.26                                   |  | 60.32          | 0.000335   | 1.82<br>2.10 | 622.56            | . 64.11<br>781.50                                  | 0.15<br>0.15 |
| raymondville                 | Fleach 8                                | 245400           | 1536.00           | 51.44          | 61.47  | -  | 61.51          | 0.000189   | 1.73         | 1873.04           | 1275.29  | 0.13         |
| raymondville                 | Reach 8                                 | 245400           | 4675.00           | 51,44          | 65,14  |  | 65,14          |  | 1.01         | 8654.86           | 3000.00  | 0.07         |
|                              |   |                  |                   |                |  |  |                |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 242800           | 529.00            | 50.49          | 57.12  |  | 57.17          | 0.000313   | 1.78         | 297.56            | 64.77  | 0.15         |
| raymondville                 | Reach 8                                 | 242800           | 986.00            | 50.49          | 59.42  |  | 59.49          |  | 2.13         | 462.11            | 78.55  | 0.16         |
| raymondville                 | Reach 8                                 | 242800           | 1536.00           | 50.49          | 60.87  |  | 60.93          |  | 2.09         |                   | 1302.29  | 0.14         |
| raymondville                 | Reach 8                                 | 242800           | 4675.00           | 50.49          | 65.04  |  | 65.04          | 0.00036  | 0.94         | 9819.88           | 3000.00  | 0.06         |
| - 71                         |   |                  |                   | 49.54          |  |  | 58.19          |  |              | 004.50            |  |              |
| raymondville<br>raymondville | Reach 8<br>Reach 8                      | 240200<br>240200 | 624.00<br>1188.00 | 49.54          | 56.12<br>58.31                                   |  | 58.42          |  | 2.12<br>2.64 | 294.56<br>449.82  | 64.50<br>77.61                                     | 0.17<br>0.19 |
| raymondville                 | Reach 8                                 | 240200           | 1705.00           | 49.54          | 59.81  |  | 59.95          |  | 2.97         | 573.25            | 88.63  | 0.19         |
| raymondville                 | Reach 8                                 | 240200           | 4264.00           | 49.54          | 64.53  |  | 64.78          | 0.000684   | 4.07         | 1048.48           | 114.92   | 0.24         |
|                              | 100000000000000000000000000000000000000 |                  |                   |                |  |  |                |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 235900           | 624.00            | 47.97          | 52.68  |  | 52.86          | 0.001643   | 3.38         | 184.52            | 53.29  | 0.32         |
| raymondville                 | Reach 8                                 | 235900           | 1186.00           | 47.97          | 54.64  |  | 54.88          | 0.001536   | 3.95         | 300.28            | 65.03  | 0.32         |
| raymondville                 | Reach 8                                 | 235900           | 1705.00           | 47.97          | 55.95  |  | 56.24          |  | 4.37         | 390.21            | 72.86  | 0.33         |
| raymondville                 | Reach 8                                 | 235900           | 4264.00           | 47.97          | 59.42  |  | 60.03          | 0.002142   | 6.28         | 679.41            | 93.70  | 0.41         |
| 2 24                         | la                                      | ingares.         |                   | 47.0           |  | <u> </u>   |                | 0.0004.5   | 1.5-         |                   | F=1.5-   |              |
| raymondville<br>raymondville | Fleach 6<br>Fleach 8                    | 233900<br>233900 | 624.00<br>1186.00 | 47.24<br>47.24 | 52.12<br>54.59                                   |  | 52.13<br>54.59 | 0.000142<br>0.000037                             | 1.02<br>0.72 | 999.46<br>2730.47 | <del></del>  | 0.10         |
| raymondville                 | Reach 8                                 | 233900           | 1705.00           | 47.24          | 54.59<br>55.96                                   |  | 55.97          | 0.000037   | 0.72         |                   |  | 0.05         |
| raymondville                 | Reach 8                                 | 233900           | 4264.00           | 47.24          | 59.71  | <b></b>  | 59.71          | 0.000021   | 0.82         | 10426.48          |  | 0.04         |
|                              |   | 10000            |                   |                |  |  |                |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 231612           | 624.00            | 40.87          | 51.67  |  | 51.72          | 0.000229   | 1,83         | 341.44            | 53.22  | 0.13         |
| raymondville                 | Fleach 8                                | 231612           | 1186.00           | 40.87          | 54.38  |  | 54.43          |  | 1.97         | 973.47            | +  | 0.12         |
| raymondville                 | Fleach 8                                | 231612           | 1705.00           | 40.87          | 55.81  |  | 55.84          |  | 1.74         | 1880.04           | 706.35   | 0.10         |
| raymondville                 | Reach 8                                 | 231612           | 4264.00           | 40.87          | 59.61  | ļ  | 59.63          | 0.000069   | 1,64         | 5430.24           | 1401.31  | 0.08         |
|                              |   | own-do-s         | 201.00            | 40.00          |  |  | 50.82          | 0.000004   | 4.00         | 340.93            | 50.00  | 0.40         |
| raymondville<br>raymondville | Reach 8<br>Reach 8                      | 227684           | 624.00<br>1186.00 | 40.09<br>40.09 | 50.77<br>53.40                                   |  | 53.49          |  | 1.83         |                   | 53.29<br>63.81                                     | 0.13<br>0.15 |
| raymondville                 | Reach 8                                 | 227684           | 1705.00           | 40.09          | 54.99  |  | 55.10          |  | 2.68         | ·                 | 362.71   | 0.16         |
| raymondville                 | Reach 8                                 | 227684           | 4264.00           | 40.09          | 59.16  |  | 59.22          |  | 2.51         | 3191.61           | 797.37   | 0.12         |
|                              |   |                  |                   |                |  |  |                |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 225004           | 624.00            | 39.55          | 50.12  |  | 50.17          | 0.000253   | 1.90         | 329.05            | 52.27  | 0.13         |
| raymondville                 | Reach 8                                 | 225004           | 1186.00           | 39.55          | 52.50  |  | 52.60          | 0.000363   | 2.55         |                   | 61.79  | 0.16         |
| raymondville                 | Reach 8                                 | 225004           | 1705.00           | 39,55          | 53.88  |  | 54.03          |  | 3.08         |                   | +  | 0.19         |
| raymondville                 | Reach 8                                 | 225004           | 4264.00           | 39.55          | 58.31  |  | 58.49          | 0.000454   | 3.78         | 2070.66           | 947.10   | 0.20         |
|                              | <u> </u>                                | 0.000            |                   | 20.00          | 10.01  |  | 40.00          | 0.000070   | 1.40         | 1444.03           | 700.00   |              |
| raymondville                 | Reach 8                                 | 222418<br>222418 | 624.00<br>1186.00 | 39.03<br>39.03 | 49.81<br>52.43                                   |  | 49.83<br>52.44 |  | 1.16<br>0.71 |                   | 760.02   | 0.08         |
| raymondville<br>raymondville | Reach 8<br>Reach 8                      | 222418           | 1705.00           | 39.03          | 53.88  |  | 53.88          |  | 0.68         |                   | <del></del>  | 0.04         |
| raymondville                 | Reach 8                                 | 222418           | 4264.00           | 39.03          | 5B.35  | +  | 58.35          |  | 0.71         |                   |  | 0.03         |
|                              |   |                  |                   |                |  |  |                |  |              |                   |  |              |
| raymondvilla                 | Reach 8                                 | 220780           | 624.00            | 38.71          | 49.57  |  | 49.62          | 0.000224   | 1.81         | ·                 | 53.43  | 0.13         |
| raymondville                 | Reach 8                                 | 220780           | 1186.00           | 38.71          | 52.26  |  | 52.35          | <del>                                     </del> | 2.36         |                   |  |              |
| raymondville                 | Reach 8                                 | 220780           | 1705.00           | 38.71          | 53.67  |  | 53.80          | <del></del>                                      | 2.85         |                   |  |              |
| raymondville                 | Reach 8                                 | 220780           | 4264.00           | 38.71          | 57.94  | <del></del>                                      | 58,27          | 0.000733   | 4.58         | 931.80            | 86.91  | 0.25         |
| raymondville                 | Reach B                                 | 217688           | 624.00            | 38.09          | 48.87  |  | 48.92          | 0.000231   | 1.83         | 340.70            | 53.17  | 0.13         |
| raymondville                 | Reach 8                                 | 217688           | 1186.00           | 38.09          | 51.29  |  | 51.39          | · · · · · · · · · · · · · · · · · · ·            | 2.46         |                   | <del>  • • • • • • • • • • • • • • • • • • •</del> |              |
| raymondville                 | Fleach 8                                | 217688           | 1705,00           | 38.09          | 52.32  |  | 52.47          | ·  | 3.11         |                   |  |              |
| raymondville                 | Reach 8                                 | 217688           | 4264.00           | 38.09          |  |  | 56.02          |  | 4.44         |                   |  |              |
|                              |   |                  | [                 |                |  |  |                |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 215481           | 624.00            | 37.65          | 48.35  |  | 48.40          |  |              | <del></del>       |  |              |
| raymondville                 | Reach 8                                 | 215481           | 1186.00           | 37.65          | 50.58  | +  | 50.67          | +  | 2.42         |                   |  |              |
| raymondville                 | Reach 8                                 | 215481           | 1705.00           | 37.65<br>37.65 | 51.58  | <del>                                     </del> | 51.66<br>55.49 |  | 2,45         |                   |  |              |
| raymondvilla                 | Reach 8                                 | 215481           | 4264.00           | 37.65          | 55.48  | <del>'</del>                                     | 55.45          | 0.000098   | 1.8/         | 4907.28           | 1313.96  | 0.05         |
| raymondville                 | Reach B                                 | 213503           | 624.00            | 37.25          | 47.86  | 1  | 47.93          | 0.000232   | 1.83         | 340.25            | 5 53.28  | 0.13         |
| raymondville                 | Reach 8                                 | 213503           | 1186.00           | 37.25          |  | +  | 50.07          |  | 2.24         | +                 |  |              |
| raymondville                 | Reach 8                                 | 213503           | 1705.00           | 37.25          | <del>                                     </del> |  | 51.17          |  | 2.10         | <del>+</del>      |  |              |
| raymondville                 | Reach 8                                 | 213503           | 4264.00           | 37.25          |  |  | 55.31          | 0.000084   | 1.73         | 5296.39           | 1768.01  | 0.09         |
| Line Designation             |   |                  |                   |                |  |  |                | 1  | ļ            | ļ <u> </u>        | <u> </u>   |              |
| raymondville                 | Reach 8                                 | 211888           | 624.00            | 36.93          |  |  | 47.56          |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 211886           | 1186.00           | 36,93          | <del></del>                                      |  | 49.79          | <del></del>                                      | 1.43         |                   |  |              |
| raymondville                 | Reach 8                                 | 211886           | 1705.00           | 36.93          |  |  | 51,00          |  |              |                   | <del></del>  |              |
| raymondville                 | Reach 8                                 | 211886           | 4264.00           | 36.93          | 55.26  |  | 55.26          | 0.000012   | 0.6          | 13620.15          | 3094.3   | J.0.         |
| raymondville                 | Fleach 8                                | 210380           | 624.00            | 36.63          | 47.12  | ,  | 47.11          | 0.000257   | 1.9          | 327.1             | 52.16  | 0.13         |
| raymondville                 | Reach 8                                 | 210380           | 1186.00           | 36.63          |  | +  | 49.49          |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 210380           | 1705.00           | 36.63          |  | +  | 50.80          |  | 3.16         |                   |  |              |
| raymondville                 | Reach 8                                 | 210380           | 4264.00           | 36.63          |  |  | 55.16          |  |              |                   |  |              |
|                              |   | 1                |                   |                |  | 1  |                |  |              |                   |  | I            |
| raymondville                 | Reach 8                                 | 210328           | 624.00            |                |  |  | 47.10          |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 210328           | 1186.00           |                |  | /  | 49.4           |  |              |                   |  |              |
| raymondville                 | Reach 8                                 | 210328           | 1705.00           | 36,62          | <del></del>                                      |  | 50.7           |  |              |                   |  |              |
|                              | Reach 8                                 | 210328           | 4264.00           | 36.62          | 54.71  | 1  | 55.1           | 2 0.000969                                       | 5.01         | 841.3             | 97.50  | 0.2          |

River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Stope Q Total Vel Chnl Flow Area Top Width Froude # Chl (cfs) (h)(ft) (ft) (ft) (ft/ft) (ft/s) (sq ft) (ft) : raymondville Reach 8 208058 624.00 46.50 35.16 46.56 0.000268 1.94 322.08 51.83 0.14 raymondville Reach 8 208056 1186.00 36.16 48.40 48.52 0.000453 2.77 428.08 59.45 0.18 raymondville Reach 6 208056 1705.00 36.16 49.22 0.000898 49.42 3.57 478.08 62.73 0.23 Reach 8 208068 4264.00 36.16 50.95 51.75 0.002458 7.20 592.19 69.62 0.44 raymondville Reach 8 624.00 35.72 45.86 45.93 0.000299 2.02 316.68 159.86 0.14 rymondville Reach 8 205823 1186.00 35.72 47.77 47 82 0.000221 1.99 1127 47 924.37 0.13 raymondville Fleach A 205823 1705.00 35.72 48.74 48.76 0.000144 1.74 2479.34 1638.42 0.11 raymondville 4264.00 Fleach 8 205823 35.72 51.11 51.12 0.000059 1.32 9136.87 3684.79 0.07 Reach 6 raymond 203593 624.00 35.27 45 14 45.21 0.000344 2,13 293.62 49,49 0.15 raymondville Reach & 203593 1186.00 35.27 46.90 47.05 0.000593 3.07 386.61 56.52 0.21 raymondville Reach 8 1705.00 35.27 47.87 4R 10 0.000852 3.85 443.28 60.38 0.25 aymondville Reach 8 203593 4264.00 35.27 50.77 50.64 0.000372 3.05 4295.58 3514.28 0.17 Flearh 8 202062 624.00 35.14 44.92 44.99 0.000358 288.99 2.18 49.11 0.16 raymondville Reach 8 202962 1186 00 35.14 46.65 0.000662 3.20 371.19 55.40 0.22 raymondvill Reach 8 202982 1705.00 35.14 47.24 47.50 0.001023 4.12 413.88 58.40 0.27 raymondvil Reach 8 202962 4264.00 35.14 50.30 50.49 0.000821 2739.16 3059.87 0.26 Reach 8 raymondville 624.00 34.67 43.96 44.05 0.000450 2.35 265.57 47 17 0.17 raymondville 200800 Reach 8 1186.00 34.67 45.99 46.01 0.000131 1.56 1822.99 1180.07 0.10 raymondville Reach 8 200600 1705.00 34.67 46.94 46.95 0.000084 1.34 3020.81 1336.52 0.08 raymondville Reach 8 200600 4284.00 34 67 50.12 0.000049 1.26 8531.50 3170.81 0.06 raymondville Reach 8 200550 624.00 34.66 43.94 44.03 0.000452 2.35 265,15 47.13 0.17 raymondville Reach 8 1186.00 200550 34.66 45.98 46.00 0.000133 1.56 1813.12 1178.29 0.10 Reach 8 1705.00 200550 34.68 46.93 46.95 0.000084 1.35 3015.28 1335.92 0.08 rzymondville Reach 8 200550 4264.00 50.12 50.13 0.000049 1.26 8524.18 3167.16 0.08 198245 raymondville Reach 8 624.00 34.20 42 64 42.76 0.000687 2.75 226.77 43.75 0.21 198245 Reach 8 raymondvilk 1186.00 34.20 45.39 45.48 0.000431 2.72 807.24 761.00 raymondvilla Reach 8 196245 1705.00 34.20 48.63 46.67 0.000187 1.99 2074.72 1209.29 0.12 Reach 8 198245 4264.00 34.20 50.01 50.01 0.000050 1.28 9471.88 3800.11 0.07 raymondville Reach B 100303 624.00 31.67 41.83 0.000302 2.03 307.92 50.63 0.14 raymondvilk Reach 8 196303 1186.00 31.87 44.61 44.72 0.000364 2.55 464.54 61.78 0.16 raymondville Reach 8 100303 1705.00 31.67 48.05 46.16 0.000377 2.76 906.11 542.87 0.17 raymondvilk Reach 8 198303 4264.00 31.67 49.83 49 AA 0.000143 2.00 4743.02 1692.80 0.11 raymondville Reach 6 624.00 31.17 41.32 41.39 0.000303 2.03 307.67 50.61 0.14 raymondville Reach 8 1186.00 43.99 31.17 44.10 0.000380 2.60 458.95 61.28 0.17 raymondville Reach 8 194638 1705.00 31,17 45.49 45.57 0.000314 2.52 1157.79 688,46 0.15 raymondyllie Reach 8 4264.00 31.17 49.70 49.71 0.000058 3165.57 1.33 7781.75 0.07 raymondville Reach 8 193324 624.00 30.77 40.93 34 58 40.98 0.000303 2.03 307.81 50.62 0.14 raymondvilla Reach 8 193324 1186.00 30.77 43.48 36.11 43.59 0.000396 2.63 450.14 60.64 0.17 raymondville Reach 6 193324 1705.00 30.77 44.89 37.22 45.05 0.000502 3.16 540.27 66.50 0.20 Reach 8 193324 4264.00 30.77 49.09 40.86 49.48 0.000923 4.99 854.72 83.29 0.27 raymondvilk Reach 8 192642 624 00 30.57 40.72 34.38 40.78 0.000304 2.03 307.46 50.59 0.15 raymondville Reach 8 192642 1186.00 30 57 43 20 35.91 43.31 0.000407 2.66 445.53 60.53 0.17 raymondvitte Reach 8 192642 1705.00 30.57 44.54 37.02 44.70 0.000529 3.22 529.79 65.87 0.20 raymondville Reach 8 192642 4284.00 30.57 48.37 40.66 48.80 0.001058 5.25 812.01 81.22 0.29 Reson 8 191137 624.00 30.12 40.26 40.32 0.000305 2.03 307.06 50.56 0.15 raymondville Reach 8 191137 1188.00 30.12 42.56 0.000436 59.77 2.73 434.12 0.18 raymondville Reach 8 191137 1705.00 30 12 43 66 43.84 0.000610 3.39 502.29 64.17 0.21 raymondville Reach 8 191137 4264.00 30.12 46.17 46.79 0.001729 6.31 675.49 74.19 0.37 raymondville Reach 8 188680 624.00 29.38 39.51 39.57 0.000306 2.04 309.17 110.58 0.15 188880 raymondville Reach 8 1186.00 29.38 42.04 42.06 0.000152 1.65 1374.68 668.04 0.11 Reach 6 188680 1705.00 29.38 43.28 43.29 0.000101 1.47 933.00 2373.72 0.09 raymondville Reach 8 188680 4264.00 29.38 46.08 0.000077 1.55 1372.47 5603.28 0.08 Reach 8 187150 28.92 raymondville 624.00 39.04 39.11 0.000307 2 04 306 15 50.50 0.15 raymondvilla Reach 6 187150 1186.00 .41.59 28.92 41.70 0.000401 2.65 447.86 60.70 0.17 raymondville 187150 1705.00 28.92 42.82 42.98 0.000541 3.25 525.28 65.60 0.20 Reach 8 187150 4284.00 28.92 45.77 0.001002 1352.53 5.05 639.94 0.28 raymondville Reach 8 187100 624.00 28.91 39.02 39.09 0.000308 305.84 50.47 0.15 2.04 raymondville Reach 8 187100 1186.00 28 91 41 57 41.68 0.000403 447.22 2.65 60.85 0.17 raymondville Reach 8 187100 1705.00 28.91 42.79 42.95 0.000544 3.25 524.11 65.53 0.20 Reach 8 raymondville 187100 4264.00 28.91 45.37 45.72 0.001045 5.14 1312.91 631.80 0.29 Reach 8 184550 624.00 28.14 38.24 0.000311 304.89 0.15 38.30 2.05 50.39 184550 1186.00 28.14 41.21 raymondvili Reach 8 41.23 0.000091 1.35 2111.90 1339.29 0.08 raymondville Reach 8 184550 1705.00 28.14 42 66 42.67 0.000037 0.96 4630.62 2072.46 0.05 raymondville Reach 8 184550 4264.00 28.14 45.44 45.45 0.000022 0.89 11735.02 3153.06 0.04

raymondville

Reach 8

Reach 8

164500

184500

624.00

1186.00

28.13

28.13

38.22

41.20

0.000311

0.000091

2.05

1.35

304.59

2105.51

38.29

41.22

50.37

1338.25

0.15

HEC DAS Plan: P 25% 3 (Continued) Flow Area River Reach River Sta O Total Min Ch EL W.S. Elev Ort W.S. E.G. Elev E.G. Slope Vet Chrit Top Width Froude # Chil (cfa) (lt) (ft) (ft) (ft) (ft/ft) (IVe) (sq ft) (ft) Fleach B 184500 raymondville 1705.00 42 66 42.67 0.000037 0.96 2072 00 0.05 164500 raymondville Teach 8 4264.00 28.13 45.44 45.44 0.000022 0.89 11731.97 3152.52 0.04 raymondville 183033 624.00 27.66 37.73 31.48 37.80 0.000314 2,06 303.61 50.29 0.15 raymondville Reach 8 489099 1186.00 27.66 40.89 33.00 40.98 0.00029 2.39 578.31 241.15 0.15 raymondville Reach 8: 183033 1705.00 27 66 42 47 34.11 42.54 0.000229 2,37 1155.41 470.51 0.14 raymondyille Reach 8 183033 4264 00 27.66 45 2B 37.75 45.36 0.000250 2.94 3027.95 917.79 0.15 624.00 37.16 raymondville Reach 8 181219 27.11 37.22 0.000317 2.06 302.48 50.20 0.15 raymondville Reach 8 181219 1186.00 27.11 40.32 40.42 0.000323 2.45 511.84 181.13 0.16 raymondville 1705.00 181219 27.1 42.01 42.09 0.000269 2.50 1048.67 502.45 0.15 raymondville Reach 8 181219 4264.00 27.11 44 90 0.000193 2.54 3961.59 1455.73 0.13 179129 624.00 raymondville Reach 8 26.49 36 49 36.55 0.000325 2.08 200 87 40 00 0.15 raymondville Reach B 179129 1186.00 26.49 39.63 39.73 0.000338 2.48 494 11 209 76 0.16 179129 1705.00 26.49 raymondville Fleach 8 41.77 41.79 0.000081 1.42 3115 13 1916 29 n na 179129 4264.00 26.49 44.82 44.83 0.00002 0.93 10841.92 2789.86 0.05 mymondville Beach B 178000 624 00 26.15 36 12 29 97 36 19 0.000329 2.09 298.40 49,87 0.15 raymondville Reach 8 178000 1186.00 26.15 39 25 31 49 39.34 0.000345 2.50 473 94 62.20 0.16 1705.00 raymondy Reach 8 78000 26.15 41.52 32.60 41.62 0.000281 2 61 818 77 887 24 0.15 raymondville Reach 8 178000 4264.00 26.15 44.65 36,24 44.75 0.000288 3.20 2892.14 3148,32 0.16 raymondville Reach A 177727 624 00 26.07 36.03 29.89 36.10 0.000330 2.09 297,91 49.84 0.15 raymondville Reach 8 177727 1188.00 26 07 39.15 31.41 39 25 0.000346 2.51 473.06 62.33 0.16 raymondville Reach 8 177727 1705.00 26.07 41.44 32.52 41.55 0.000286 2.63 797.65 814.12 0.15 raymondville 4264.00 Reach 8 177727 26.07 44.56 36.16 44.67 0.000297 3,24 2802.11 3073.94 0.16 raymondville 175705 624.00 Reach 8 25.46 35.35 29.28 0,000341 2.12 294,44 49.55 0.15 175705 1188.00 25.46 38.44 30.80 38.54 0.000360 Reach R 2,54 466.47 61.90 0.16 raymondville Reach R 176706 1705.00 25.46 40 92 31 91 40.93 0.000321 2.67 727.17 293.77 0.16 raymondville Reach 8 175705 4264.00 25.46 43.97 35.55 44.07 0.000293 3.11 2730.23 939.53 0.16 175125 624.00 25.28 Reach B 35.15 29.10 35.22 0.000344 raymondvilla 2.13 293.49 49.4B 0.15 raymondville 1186.00 0.000364 Reach B 175125 25.28 38.22 30.63 38.33 2.55 464.57 61.78 0.16 raymondville 175125 0.000330 Reach R 1705.00 25.28 40.63 31.73 40.74 2.70 687.56 249.80 0.16 Reach 8 175125 4264.00 25.28 43,78 43 89 0.000325 35.36 3.25 2563.25 910.52 0.17 173785 raymondville Reach 8 624.00 24.88 34.67 34.74 0.000356 2.15 289 67 49 17 0.16 1188.00 raymondville Reach 8 173765 24.88 37.72 37.82 0.000378 2.59 458 05 61.38 0.17 raymondville 1705.00 24.88 Reach 8 173765 40,17 40.29 0.000344 2.75 631.92 146.69 0.16 raymondville Reach 6 73765 4264,00 24.8 43.15 43.34 0.000483 1943.16 785.16 3.95 0.20 raymondville Boach R 171741 824 OC 24 27 33 93 34.00 0.000379 2.20 283.06 48.63 0.16 raymondville Reach 8 171741 1186.00 24.27 36.93 37.03 0.000403 2.65 446 RG BO 62 0.17 raymondville Reach 8 171741 1705,00 24.27 39.45 39.57 0.000358 2.78 612.98 70.74 0.17 raymondville Reach 8 171741 4264.00 42.59 24,27 42.51 0.000273 2.91 3453.37 1616.00 0.15 raymondville 171691 624.00 24,25 33.91 33,98 0.000379 2.20 283.01 48.61 0.16 raymondville Reach 8 171691 1186.00 24,25 36.90 37.01 0.000404 2.66 446.68 60.60 0.17 raymondville Reach B 171691 1705.00 24 25 39 44 39 58 0.000358 2.78 612.95 70.73 0.17 raymondville Reach 8 171691 4264.00 24,25 42.49 42.57 0.000278 2.93 3422.53 1614.05 0.15 raymondville Reach 8 169710 624.00 23,66 33.11 33.20 0.000416 2.28 273.31 47.82 0.17 raymondville 169710 1186.00 23,66 36.06 36.18 0.000443 2.75 431.39 59.59 0.18 Reach 8 18971D 1705.00 23.66 36.71 38.83 0.000374 603.29 70.19 2.83 0.17 raymondville Reach 6 169710 4264.00 23.66 41.98 42.04 0.000249 3634.48 1632.68 0.14 2.75 168304 1342.00 23.63 32.65 0.000376 Reach 8 32.55 2.51 533.73 77.68 raymondville 0.17 raymondville Reach 8 2463.00 23.63 35.38 35.54 0.00045 3.20 769.60 89.00 0.19 raymondville Reach 8 168304 3863.00 23.63 37.93 38.16 0.000525 3.83 1009.B 99.22 0.21 0.000288 Reach 8 168304 8322.00 23.63 41.56 41.66 8113.32 5926.09 nondville 0.16 187456 1342.00 23.54 0.000419 raymondville Reach B 32.20 32.31 2.61 514 08 76 66 0.18 187456 2463.00 23.54 34.96 0.000509 raymondville 35.13 Reach 8 3.33 740.50 87.69 0.20 167456 3863,00 23.54 37.44 37.69 0.00058 raymondville Reach 8 970.46 97.62 3.98 0.22 raymondville 167456 8322.00 23.54 0.000244 3.03 8650.16 5730.63 0.15 raymondville Reach 8 188128 1342.00 23 41 31.57 31.69 0.000522 2 82 475 BS 74.63 0.20 raymondville Reach 8 166128 2463.00 23,41 34.18 34.38 0.000629 3.60 684.58 85.09 0.22 3863.00 36.53 36.82 166128 23,41 0.000733 895.13 raymondville Reach 8 4.32 94.47 0.25 8322.00 41.05 186128 23.41 40.94 7744.37 raymondville Reach 8 0.000329 3.4€ 6000.00 0.17 raymondvilla Reach 6 166076 1342 00 23 40 31 54 31.68 0.000526 2 83 474.42 74 56 0.20 raymondville Fleach 6 166076 2463.00 23.40 34.15 34.35 0.000634 3.61 682.62 85.00 0.22 reymondville Reach 8 166078 3863.00 23.40 36.49 36.78 0.000739 4.33 892.39 94.36 0.25 8322.00 0.000340 raymondville Reach 8 166078 23.40 40.92 41.03 3.51 7610.77 6000.00 0.18 raymondville 164919 576.00 22.94 31.32 0.000087 1.17 492.20 0.08 reach 2 75,51 raymondville 164919 1178.00 22.94 33.87 33.92 0.000136 85.73 0.10 each 2 raymondville reach 2 164919 1993.00 22.94 36.16 36 23 0.000189 2.20 904 51 94 87 0.13 raymondville reach 2 164919 7931.00 22.94 40.46 40.58 0.000448 3.55 4596.53 3393.09 0.20 HEC-PAS Pian P 25% 3 (Continued)

| River                                   | Reach.                 | River Sta                 | Q Total | Min Ch El | W.S. Elev | Crit W.S.     | E.G. Elev | E.G. Slope | 1/-1 Ob-1          |           |           |              |
|---|------------------------|---------------------------|---------|-----------|-----------|---------------|-----------|------------|--------------------|-----------|-----------|--------------|
| 1,000                                   | Reford to              | a                         | (cfs)   | (tt)      | (ft)      | (ft)          | (ft)      | (fVft)     | Vel Chnl<br>(ft/s) | Flow Area | Top Width | Froude # Chi |
| raymondville                            | reach 2                | 164491.*                  | 576.00  | 22.89     | 31.27     | (iq           | 31.30     | 0.000087   |                    | (sq ft)   | (ft)      | 1.2 5, 92 5  |
| taymondvilla                            | reach 2                | 164431.*                  | 1178.00 | 22.89     | 33.80     |               |           | 0.000137   | 1.17               | 492.72    | 75.53     | 0.08         |
| raymondville                            | reach 2                | 164431.                   | 1993.00 | 22.89     | 36.06     |               | 33.85     |            | 1.69               | 696.51    | 85.64     | 0.10         |
| raymondville                            | reach 2                | 164431.*                  | 7931.00 | 22.89     |           |               | 36.13     | 0.000199   | 2.20               | 904.90    | 99.15     | 0.13         |
| TEYTHOTOTRO                             | TORATE                 | 104437.                   | 7931.00 | 22.69     | 40.25     |               | 40.37     | 0.000428   | 3.48               | 4979.04   | 3761.27   | 0,19         |
|   |                        |                           |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 163943.*                  | 576.00  | 22.85     | 31.23     |               | 31.25     | 0.000087   | 1.17               | 492.69    | 75.55     | 0.08         |
| raymondville                            | reach 2                | 163943.*                  | 1178.00 | 22.85     | 33.74     |               | 33.78     | 0.000138   | 1.70               | 694.36    | 85.57     | 0.10         |
| raymondville                            | reach 2                | 163943.*                  | 1993.00 | 22.85     | 35.96     |               | 36.04     | 0.000199   | 2.22               | 895.88    | 96.47     | 0.13         |
| raymondville ···                        | reach 2                | 163943.*                  | 7931.00 | 22.85     | 40.09     |               | 40.17     | 0.000328   | 2.99               | 5933.23   | 4257.39   | 0.17         |
| The good sand                           | Kaladery I - r in      | - 29 - 20 -               |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 163456                    | 576.00  | 22.80     | 31.19     | 24.54         | 31.21     | 0.000087   | 1.17               | 493.21    | 75.57     | 0.06         |
| raymondviile                            | reach 2                | 163456                    | 1178.00 | 22.80     | 33.67     | 25.56         | 33.71     | 0.000139   | 1.70               | 692.73    | 85.48     | 0.11         |
| raymondville                            | reach 2                | 183456                    | 1993.00 | 22.80     | 35.88     | 26.65         | 35.94     | 0.000198   | 2.24               | 889.98    | 778.21    | 0.13         |
| raymondville                            | reach 2                | 163456                    | 7931.00 | 22.80     | 40.00     | 31.69         | 40.04     |            | 2.34               | 8178.94   | 5350.07   |              |
| 3579 (637) 3.192                        |                        | STED Javies And           |         |           |           |               | 40.04     | 0.000217   | 2.34               | 81/0.84   | 5350,07   | 0.14         |
| raymondville                            | reach 2                | 161467                    | 576.00  | 22.59     | 31.02     |               | 21.04     | 0.000000   | 4.40               |           |           |              |
| raymondville                            | reach 2                | 161457                    | 1178.00 | 22.59     | 33.38     |               | 31.04     | 0.000085   | 1.18               | 496.33    | 75.73     | 0.08         |
| raymondville                            | reach 2                | 181457                    | 1993.00 |           |           |               | 33.43     | 0.000143   | 1.72               | 686.13    | 85.17     | 0.11         |
|   |                        |                           |         | 22.59     | 35.50     |               | 35.56     | 0.000179   | 2.12               | 1232.51   | 881.00    | 0.12         |
| raymondville                            | reach 2                | 161457                    | 7931.00 | 22.59     | 39.91     |               | 39.92     | 0.000026   | 0.98               | 13840.24  | 5254.47   | 0.05         |
|   |                        | 3.00                      |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 159438                    | 576.00  | 22.38     | 30.85     |               | 30.87     | 0.000084   | 1.15               | 499.49    | 75.89     | 0.08         |
| raymondville                            | reach 2                | 159438                    | 1178.00 | 22.38     | 33.08     |               | 33.13     | 0.000147   | 1.74               | 678.72    | 84.82     | 0.11         |
| raymondville                            | reach 2                | 159438                    | 1993.00 | 22.38     | 35.07     |               | 35.18     | 0.000221   | 2.33               | 855.31    | 92.77     | 0.14         |
| raymondville                            | reach 2                | 159438                    | 7931.00 | 22.38     | 39.76     |               | 39.80     | 0.000174   | 2.50               | 8537.12   | 5974.11   | 0.13         |
| 10 10 10 10 10 10 10                    | 19 35 July 18 1        | is dark it                |         |           |           |               |           |            |                    |           |           | 3.10         |
| raymondville                            | reach 2                | 157410                    | 576.00  | 22.18     | 30.69     |               | 30.71     | 0.000083   | 1,15               | 501.89    | 76.02     | 0.08         |
| raymondville                            | reach 2                | 157410                    | 1178.00 | 22.18     | 32.78     |               | 32.83     | 0.000153   | 1.76               | 689.81    | 84.39     | 0.00         |
| raymondville                            | reach 2                | 157410                    | 1993.00 | 22.18     | 34.60     |               | 34.69     | 0.000240   | 2.40               | 830.17    | 91.68     |              |
| raymondville                            | reach 2                | 157410                    | 7931.00 | 22.18     | 38.43     |               | 39.01     | 0.001231   | 8.27               |           |           | 0.14         |
|   |                        |                           |         | 2.70      | 30,43     |               | 39.01     | 0.001231   | 6.27               | 1766.95   | 2220.08   | 0.33         |
| raymondville                            | reach 2                | 157293,*                  | 578.00  | 22.17     | 30.68     |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 157293.*                  | 1178.00 |           |           |               | 30.70     | 0.000083   | 1.15               | 501.92    | 76.02     | 0.08         |
| raymondville                            | reach 2                | 1                         |         | 22.17     | 32.76     |               | 32.81     | 0.000153   | 1.76               | 669.10    | 84.36     | 0.11         |
|   |                        | 157293.*                  | 1993.00 | 22.17     | 34.57     |               | 34.66     | 0.000242   | 2.41               | 828.24    | 91.60     | 0.14         |
| raymondville                            | reach 2                | 157293.*                  | 7931.00 | 22.17     | 38.32     |               | 38.85     | 0.001271   | 6.07               | 2061.48   | 2556.26   | 0.33         |
| 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Base Salara 1 1 1 1 1  | and the tags of the first |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 157178.*                  | 578.00  | 22.18     | 30.67     |               | 30.69     | 0.000083   | 1.15               | 501.97    | 76.03     | 0.08         |
| raymondville                            | reach 2                | 157176."                  | 1178.00 | 22.16     | 32.74     |               | 32.79     | 0.000154   | 1.76               | 668.41    | 84.33     | 0.11         |
| raymondville                            | reach 2                | 157176.*                  | 1993.00 | 22.18     | 34.54     |               | 34.63     | 0.000243   | 2.41               | 826.35    | 91.52     | 0.14         |
| raymondville                            | reach 2                | 157176.*                  | 7931.00 | 22.16     | 38.26     |               | 38.68     | 0.001168   | 5.59               | 2623.42   | 3539.01   | 0.32         |
| 126 T \$5 T 1 34 T 186                  | March 1985             | 1 - 14 - 14               |         |           |           |               |           | -          |                    |           |           |              |
| raymondville                            | reach 2                | 157059.*                  | 576.00  | 22.14     | 30.66     |               | 30.68     | 0.000082   | 1.15               | 502.72    | 78.06     | 0.08         |
| raymondville                            | reach 2                | 157059.*                  | 1178.00 | 22.14     | 32.72     |               | 32.77     | 0.000154   | 1.76               | 668.47    | 84.33     |              |
| raymondville                            | reach 2                | 157059.                   | 1993.00 | 22.14     | 34.51     |               | 34.60     | 0.000252   | 2.41               | 826.41    | 94.21     | 0.11         |
| raymondville                            | reach 2                | 157059.*                  | 7931.00 | 22.14     | 38.21     |               | 38.52     | 0.000232   | 5.05               |           |           | 0.14         |
| a G. V. Tark                            | Total Military Control | 100238800                 | 1001.00 |           | 30.21     |               | 36.32     | 0.000308   | 5.05               | 3658.23   | 5983.19   | 0.28         |
| raymondville                            | reach 2                | 156942.*                  | 578.00  | 22.13     | 30.65     |               | 20.03     | 0.000000   |                    |           |           |              |
| raymondville                            | reach 2                | 156942.*                  | 1178.00 | 22.13     | 32.70     |               | 30.67     | 0.000082   | 1.15               | 502.77    | 76.07     | 0.08         |
| гаутолскию                              | reach 2                | 156942.*                  | 1993.00 |           |           |               | 32.75     | 0.000157   | 1.76               | 688.60    | 85.70     | 0.11         |
| raymondville                            | reach 2                | 156942.*                  |         | 22.13     | 34.48     |               | 34.57     | 0.000252   | 2.41               | 828.57    | 94.94     | 0.14         |
| (ayılınınınını                          | IDEA! 2                | 150842.                   | 7931.00 | 22.13     | 38.29     | $\overline{}$ | 38.38     | 0.000341   | 3.27               | 6507.83   | 6000.00   | 0.17         |
| 2010/2011/09 69                         | 1                      |                           |         |           |           |               |           |            |                    |           |           |              |
| raymondvilla                            | reach 2                | 156825                    | 576.00  | 22.12     | 30.64     |               | 30.66     | 0.000082   | 1.15               | 502.80    | 76.07     | 0.08         |
| raymondville                            | reach 2                | 156825                    | 1178.00 | 22.12     | 32.69     |               | 32.73     | 0.000155   | 1.77               | 667.08    | 84.27     | 0.11         |
| raymondville                            | reach 2                | 156825                    | 1993.00 | 22.12     | 34.44     |               | 34.54     | 0.000248   | 2.43               | 821.44    | 91.30     | 0.14         |
| raymondville                            | reach 2                | 156825                    | 7931.00 | 22.12     | 38.29     |               | 38.33     | 0.000167   | 2.38               | 8829.61   | 6000.00   | 0.12         |
| 1 - 2 - 5 - 1 - 1 - 1 - 1 - 1           | g Myler Miller Ty      | - 1748 PR                 |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 155106                    | 578.00  | 21.94     | 30.49     |               | 30.51     | 0.000081   | 1.14               | 505.33    | 76.20     | 0.06         |
| raymondville                            | reach 2                | 155106                    | 1178.00 | 21.94     | 32.41     |               | 32.46     | 0.000160   | 1.79               | 659.39    |           |              |
| raymondville                            | reach 2                | 155106                    | 1993.00 | 21.94     | 33.99     |               | 34.09     | 0.000269   | 2.50               | 796.95    |           | 0.15         |
| raymondville                            | reach 2                | 155106                    | 7931.00 | 21.94     | 37.70     |               | 37.85     | 0.000510   | 4.04               | 4762.48   |           |              |
| 1000                                    |                        | 7 7 547 0                 | -       |           |           |               | 27.30     |            | 7.54               | OE.40     | -2.54.38  | 0.21         |
| raymondville                            | reach 2                | 153062                    | 578.00  | 21.73     | 30.33     |               | 30.35     | 0.000079   | 1.13               | 508.87    | 78.39     |              |
| raymondville                            | reach 2                | 153062                    | 1178.00 | 21.73     | 32.08     |               | 32.13     | 0.000079   | 1.82               |           |           |              |
| raymondville                            | reach 2                | 153062                    | 1993.00 | 21.73     | 33.40     |               |           | 0.000167   |                    | 648.87    | 83,40     |              |
| raymondville                            | reach 2                | 153062                    | 7931.00 |           |           |               | 33.51     |            |                    | 762.54    | 88.68     |              |
| 10 JULIUNIVERS                          | DOM:                   | 133002                    | 7931.00 | 21.73     | 37.14     |               | 37.19     | 0.000208   | 2.84               | 5948.19   | 2350.51   | 0.14         |
|   |                        | 151005                    |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 151635                    | 578.00  | 21.59     | 30.21     |               | 30.23     | 0.000079   | 1,13               | 510.45    |           | 0.08         |
| raymondville                            | reach 2                | 151635                    | 1178.00 | 21.59     | 31.83     |               | 31.89     | 0.000174   | 1.84               | 640.17    | 82.98     | 0.12         |
| raymondville                            | reach 2                | 151635                    | 1993.00 | 21.59     | 32.93     |               | 33.05     | 0.000339   | 2.72               | 733.71    | 87.37     | 0.17         |
| raymondville                            | reach 2                | 151635                    | 7931.00 | 21,59     | 36.60     |               | 36.75     | 0.000498   | 3.99               | 3833.95   | 1820.58   | 0.21         |
| 1 38 3 5 5 50                           |                        |                           |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 150792                    | 876.00  | 21.50     | 30.07     |               | 30.12     | 0.000188   | 1.73               | 508.98    | 76.29     | 0.12         |
| raymondville                            | reach 2                | 150792                    | 1632.00 | 21.50     | 31.55     |               | 31.66     | 0.000357   | 2.61               | 624.37    |           | 0.12         |
| raymondville                            | reach 2                | 150792                    | 2637.00 | 21.50     | 32.40     | 1             | 32.62     | 0.000690   | 3.79               | 695.22    | 85.59     |              |
| raymondville                            | reach 2                | 150792                    | 8759.00 | 21.50     | 36.05     |               | 36.24     | 0.000705   | 4.60               | 4392.63   |           |              |
| 100                                     | 13.55-7                |                           | 2,55.55 | 21.00     | 50.55     | <del></del>   | 55.24     | 0.000703   | 4.00               | +392.03   | 3202.83   | 0.28         |
| raymondville                            | reach 2                | 149670                    | 732.00  | 21.30     | 29.90     |               | 00.00     | 0.00015    |                    |           |           | <u> </u>     |
|   |                        |                           |         |           |           |               | 29.93     | 0.000128   | 1.44               | 509.09    | 76.40     |              |
| raymondville                            | reach 2                | 149670                    | 1235.00 | 21.30     | 31.25     |               | 31.32     | 0.000212   | 2.00               | 616.29    |           |              |
| raymondville                            | reach 2                | 149670                    | 1728.00 | 21.30     | 31.90     |               | 32.00     |            | 2.58               | 669.79    |           |              |
| raymondville                            | reach 2                | 149870                    | 5455,00 | 21.30     | 34.61     |               | 35.17     | 0.001381   | 5.97               | 913.45    | 95.25     | 0.34         |
|   |                        |                           |         |           |           |               |           |            |                    |           |           |              |
| raymondville                            | reach 2                | 149820                    | 732.00  | 21.29     | 29.59     |               | 29.93     | 0.000128   | 1.44               | 509.37    | 76.41     | 0.10         |
| raymondville                            | reach 2                | 149620                    | 1235.00 | 21.29     | 31.24     |               | 31.31     | 0.000212   | 2.00               | 616.24    |           |              |
|   | reach 2                | 149620                    | 1728.00 | 21.29     | 31.88     |               | 31.99     |            |                    | 669.23    |           | 3.10         |

HFC DAS Plan: P.25% 3 (Caption of Plant Reach River Six O Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (#) **(ft)** (ft) (ft/ft) (ft) (ft/a) (sq ft) (ft) raymondville reach 2 149620 5455.00 21.29 34.54 35.10 0.001408 6.0 907.21 0.34 raymondville 147620 732.00 eich 2 21.09 29.63 29.68 0.000132 1.45 504.30 76.15 0.10 raymondville reach 2 147620 1235.00 21.09 31.09 31.10 0.000056 1.03 3388.26 2953.83 0.07 raymondville 147620 1728.00 21.09 31.80 31.81 0.000034 0.83 5523.88 3027.15 0.05 raymondville 147820 5455.0K 21.09 34.84 34.84 0.000013 0.64 19213.30 5407.24 0.03 raymondville mach 2 145820 732 00 20 88 29.38 29.39 0.000135 75.91 499.91 0.10 raymondville reach 2 145820 1235.00 20.88 30.97 30.98 0.000062 1.09 3081.65 2664.39 0.07 raymondville 145620 reach 2 1728.00 20.88 31.73 31 74 0.000036 0.86 5359.35 3038.03 0.05 raymondville 145620 reach 2 5455.00 20.88 34.81 34.82 0.000013 0.65 19388 88 6000,00 0.03 raymondville 142669 732.00 20.57 28.95 0.000141 28.99 1.49 492.63 75.53 0.10 raymondville 142689 1235.00 reach 2 20.57 30.64 30.70 0.000204 1.97 625.60 82.27 0.13 142669 raymondville reach 2 1728 00 20.57 31.43 31.52 2.50 691.66 85.42 0.15 raymondviše 34.66 reach 2 142669 5455.00 20.57 34.16 0.001220 5.70 1166.07 1152.99 0.32 142619 732.00 20.57 28.95 raymondville reach 2 28 98 0.000141 1 49 492 D9 75.50 0.10 raymondville reach 2 1235.00 20.57 142619 30.63 30.69 0.000204 1.98 624.74 B2 23 0.13 raymondvilla reach 2 142619 1728.00 20.57 31.41 31.51 0.000302 2.50 690.35 85.36 0.16 reach 2 142619 5455.00 20.57 34.08 0.001275 5.79 1072.16 1063.72 0.33 raymondville reach 2 140677 732.00 20.38 28.66 28 69 0.000147 1.51 484.76 75.11 0.10 140677 raymondville reach 2 1235.00 20.38 30.25 30.30 0.000195 1.91 1039.64 1814.08 0.12 140677 20.38 raymondy reach 2 1728.00 31.16 31.18 0.000111 1.51 2732.28 1905.08 0.09 raymondville 140677 reach 2 5455.00 20.38 34.22 34.23 0.000048 1.13 11391.77 4198.52 0.06 each 2 138858 732.00 20.17 28.35 28,39 0.000153 1.53 74.74 477.70 0.11 raymondville reach 2 1235.00 20.17 29.60 29.86 0.000241 2.09 589.60 80.50 0.14 raymondville reach 2 138658 1728.00 20.17 30.90 30.93 0.000141 1.70 2442.73 2090.34 0.11 138658 raymondville reach 2 5455.00 20.17 34.16 34.17 0.000022 0.85 16019.86 5297,18 0.04 raymondville each 2 38000 732.00 20.10 28.25 28.29 0.000156 1.54 74.61 475.32 0.11 raymondville each 2 138000 1235.00 20,10 29.63 29.70 0.000249 2.12 582,14 80.13 0.14 raymondville mach 2 138000 1728 00 20.10 30.68 30.79 0.000331 2.59 668.37 84.33 0.16 raymondville each 2 138000 5455.00 20.10 33.76 34.06 0.000860 4,81 2662.38 4563.22 0.27 137950 732.00 20.10 28.24 raymondville reach 2 28.28 0.000156 1.54 474 73 74 5R 0.11 reach 2 raymondville 137950 1235.00 20.10 29.62 29.69 0.000251 2.13 581.11 80.08 0.14 raymondville reach 2 137950 1728,00 20.10 30.66 0.000333 30.77 2.59 666.91 84.26 0.16 raymondville reach 2 137950 5455.00 20.10 33.64 34.01 0.001014 5.18 2157.78 3839.61 0.29 raymondville ach 2 136663 732.00 20.09 28 03 28.07 0.000171 1.59 459.67 73.77 0.11 reach 2 136663 1235.00 20.09 29 27 29.34 0.000287 2.23 553.93 78.71 0.15 raymondville reach 2 136663 1728.00 20.09 30.29 30.37 0.000284 2.37 1644.69 3575.77 0.15 raymondville each 2 136683 5455.00 20.09 33.83 33.83 0.000018 0.76 17852.39 5346.01 0.04 raymondville each 2 732.00 19.96 27,72 743.76 27.75 0.000150 1.47 653.58 0.11 134669 1235.00 raymondville reach 2 19.96 29,16 29.16 0.00003 0.65 4238.37 3659.92 0.05 raymondville reach 2 134889 1728.00 19.96 30.28 30.28 0.000013 0.55 9923.81 5912.32 0.03 raymondville reach 2 134669 5455.00 19.96 33.82 33.62 0.000004 0.36 31155.26 6000.00 0.02 raymondville reach 2 132609 732.00 19 75 27.63 27.63 0.000026 0.67 2638.25 1507.72 0.04 raymondville reach 2 132809 1235,00 19 75 29.12 29.12 0.000010 0.49 7121.31 4519.21 0.03 raymondville reach 2 132609 1728.00 30.26 30.26 0.000006 0.40 12871.35 5850.54 0.02 132609 5455.00 raymondville each 2 19.75 33.81 33.81 0.000003 0.33 34119.00 6000.00 0.02 raymondville reach 2 129500 732.00 19.43 27.53 27.54 0.000044 0.68 1834 53 1129.05 0.06 raymondville reach 2 129500 1235.00 19.43 29.08 29.08 0.000023 0.72 4533.44 3532.09 0.04 1728.00 raymondvále reach 2 129500 19.43 30.25 30.25 0.000010 0.52 9402.47 4499.80 0.03 raymondville 5455.00 19.43 reach 2 129500 33.80 33.80 0.000005 0.44 27475.19 5377.86 0.02 reach 2 129450 732.00 19.43 27.53 27.54 0.00004 0.88 1831.97 raymondville 1128.29 0.08 raymondville reach 2 129450 1235.00 19.43 29.08 29.08 0.000023 0.72 4529.38 3528.79 0.04 raymondville reach 2 129450 1728.00 19.43 30.25 30.25 0.000010 0.52 9400.22 4499.55 0.03 raymondville reach 2 129450 5455.00 19.43 33.79 33.79 0.000005 0.44 27426.28 5377.19 0.02 reach 2 raymondville 127700 732.00 19.25 27.44 27.45 0.000067 1.10 1238.43 693.11 0.07 1235.00 29.02 29.03 raymondville reach 2 127700 19.25 0.000042 1.00 2706.02 1119.82 0.06 reach 2 raymondville 127700 1728.00 19.25 30.21 30.22 0.000035 0.99 4347.73 1914.74 0.06 raymondville reach 2 127700 5455.00 19.25 33,78 33.78 0.000012 0.70 19450.44 4674.69 0.03 raymondville reach 2 126465 732.00 19.12 27.32 27.34 0.000104 1.08 876.14 384.10 0.09 126465 28.97 raymondville reach 2 1235.00 19.12 28.95 0.000075 1.11 1761.53 683.35 0.08 reach 2 raymondville 126465 1728.00 19.12 30.15 30.16 0.000060 1.12 4162.83 4279.65 0.07 raymondville reach 2 126465 5455.00 33.77 33.77 24292.38 6000,00 0.03 raymondville neach 2 124374 732.00 18.91 27.18 27.19 0.000049 0.94 1847 16 1582 02 0.06 raymondville reach 2 124374 1235.00 18.91 28.90 28.91 0.000015 0.60 5556,46 2713.19 0.04 raymondville reach 2 124374 1728.00 18.91 30.13 30.13 0.000008 0.48 10115.33 4182.22 0.03 124374 5455.00 0.000005 raymondville reach 2 18.91 33.76 33.76 0.46 26773.20 5566.75 0.02

raymondville

reach 2

124318

732.00

18,90

27.18

27.19

0.000053

0.81

1845.48

1581.65

| River                        | Reach                     | River Sta        | Q Total            | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev      | E.G. Slope  | Vel Chnl    | Flow Area   | Top Width | Froude   |
|------------------------------|---------------------------|------------------|--------------------|-----------|-----------|-----------|----------------|-------------|-------------|-------------|-----------|--|
|                              | <u> 17 . 25 </u>          | # 15 A A A       | (cfs)              | (h)       | (ft)      | (ft)      | (ft)           | (fl/ft)     | (ft/s)      | (#q ft)     | (ft)      | 2 22 40  |
| raymondville                 | reach 2                   | 124318           | 1235.00            | 18.90     | 28.90     |           | 28.90          | 0.000015    | 0.53        | 5541.92     | 2711.57   | <u> </u>   |
| rzymondvilie                 | reach 2                   | 124318           | 1728.00            | 18.90     | 30.12     |           | 30.12          | 0.000008    | 0.42        | 10100.50    | 4181.66   |  |
| raymondville                 | reach 2                   | 124318           | 5455.00            | 18.90     | 33.76     |           | 33.76          | 0.000005    | 0.42        | 26766.45    | 5565.88   |  |
| raymondville                 | reach 2                   | 122094           | 732.00             | 18.67     | 27.12     |           | 27.10          | 0.000028    | 0.66        | 2491.83     | 1474.36   | <del>-</del>                                     |
| raymondville                 | reach 2                   | 122094           | 1235.00            | 18.67     | 28.88     |           | 27.12<br>28.88 | 0.000028    | 0.49        | 5329.66     | 1752.43   |  |
| raymondville                 | reach 2                   | 122094           | 1728.00            | 18.87     | 30.11     |           | 30.11          | 0.0000011   | 0.49        | 7999.25     | 3622.19   |  |
| raymondville                 | reach 2                   | 122094           | 5455.00            | 18.67     | 33.76     |           | 33.76          | 0.000008    | 0.51        | 24361.71    | 5179.84   |  |
| i liggirik negjele           | Carabaganti ya samoo      | 7000             | 5455,50            | 10.07     |           |           | 33.70          | 0.00000     | 0.31        | 24001.71    | 3170.04   |  |
| raymondville                 | reach 2                   | 121688.*         | 732.00             | 18.63     | 27.08     |           | 27.11          | 0.000128    | 1.41        | 602.22      | 233.60    | -  |
| raymondville                 | reach 2                   | 121688.*         | 1235.00            | 18.63     | 28.86     |           | 28.87          | 0.000059    | 1.09        | 2543.33     | 1497.36   |  |
| raymondville                 | reach 2                   | 121688.*         | 1728.00            | 18.63     | 30.10     |           | 30.10          | 0.000027    | 0.82        | 5894.40     | 3231.37   |  |
| raymondville                 | reach 2                   | 121688.1         | 5455.00            | 18.63     | 33.76     |           | 33.76          | 0.000010    | 0.64        | 20863.36    | 062.34    |  |
| VD-0.60                      | 17 E.J. 40 E.J.           |                  | 5.00.00            | 10.00     |           |           | - 55.75        |             |             |             |           |  |
| raymondville                 | reach 2                   | 121283.*         | 732.00             | 18.59     | 27.04     |           | 27.08          | 0.000123    | 1.39        | 636.68      | 253.83    | 1  |
| raymondville                 | reach 2                   | 121283.*         | 1235.00            | 18.59     | 28.81     | -         | 28.84          | 0.000129    | 1.60        | 1510.98     | 1494.75   | <del></del>                                      |
| raymondville                 | reach 2                   | 121263.*         | 1728.00            | 18.59     | 30.09     |           | 30.10          | 0.000048    | 1.05        | 4299.75     | 2822.53   |  |
| raymondville                 | reach 2                   | 121283.1         | 5455.00            | 18.59     | 33.76     |           | 33.76          | 0.000016    | 0.77        | 18570.72    |           |  |
| 1,386 22                     |                           | Aleksan keri     |                    |           |           |           |                | -           |             |             |           |  |
| raymondville                 | reach 2                   | 120877.*         | 732.00             | 18.55     | 27.00     |           | 27.02          | 0.000115    | 1.35        | 705.00      | 302.24    |  |
| raymondville                 | reach 2                   | 120877.*         | 1235.00            | 18.55     | 26.79     |           | 28.81          | 0.000065    | 1.15        | 2442.58     | 1538.24   | -  |
| raymondville                 | reach 2                   | 120877."         | 1728.00            | 18.55     | 30.09     |           | 30.09          | 0.000029    | 0.82        | 4986.64     | 2088.07   |  |
| raymondville                 | reach 2                   | 120877.*         | 5455.00            | 18.55     | 33.75     |           | 33.76          | 0.000015    | 0.72        | 17301.64    | 4856.59   |  |
| t statut august t            |                           |                  |                    |           |           |           |                |             |             |             |           |  |
| rzymondville                 | reach 2                   | 120472.*         | 732.00             | 18.51     | 26.98     |           | 26.99          | 0.000102    | 1.27        | 966.44      | 891.98    |  |
| raymondville                 | reach 2                   | 120472.*         | 1235.00            | 18.51     | 28.79     |           | 28.80          | 0.000037    | 0.86        | 3543.30     | 2020.61   |  |
| raymondville                 | reach 2                   | 120472.*         | 1728.00            | 18.51     | 30.08     |           | 30.09          | 0.000017    | 0.63        | 6268.29     |           | <del></del>                                      |
| mymondville                  | reach 2                   | 120472.*         | 5455.00            | 18.51     | 33.75     |           | 33.76          | 0.000011    | 0.60        | 17209.96    | 3492.55   |  |
|                              |                           |                  |                    |           |           |           |                |             |             |             |           |  |
| raymondville                 | reach 2                   | 120067           | 732.00             | 18.47     | 26.95     | 20.51     | 26.96          | 0.000057    | 0.95        | 1590.27     | 1080.48   | +  |
| raymondville                 | reach 2                   | 120087           | 1235.00            | 18.47     | 28.79     | 21.32     | 28.79          | 0.000018    | 0.60        | 4749.08     |           | -  |
| raymondville                 | reach 2                   | 120067           | 1728.00            | 18.47     | 30.08     | 21.99     | 30.08          | 0.000011    | 0.50        | 8192.86     |           | +  |
| raymondville                 | reach 2                   | 120067           | 5455.00            | 18.47     | 33.75     | 26.59     | 33.75          | 0.000007    | 0.49        | 19377.23    | 3051.56   | <u> </u>   |
| 1,386,511,173                |                           | MARCH SE         |                    |           |           |           |                |             |             |             |           | ļ  |
| raymondville                 | reach 2                   | 119652.*         | 732.00             | 18.43     | 26.94     | 20.47     | 26.95          | 0.000059    | 0.97        | 1541.47     | 1078.75   | _  |
| raymondville                 | reach 2                   | 119652.*         | 1235.00            | 18.43     | 28.78     | 21.28     | 28.79          | 0.000020    | 0.63        | 4611.10     |           |  |
| raymondville                 | reach 2                   | 119652.*         | 1728.00            | 18.43     | 30.08     | 21.95     | 30.08          | 0.000012    | 0.53        | 7956.86     |           |  |
| raymondville                 | reach 2                   | 119652."         | 5455.00            | 18,43     | 33.75     | 26.70     | 33.75          | 0.000007    | 0.51        | 19172.59    | 3222.98   |  |
| 70,805,400                   |                           | 1 #27.           |                    |           |           |           |                |             |             |             |           |  |
| raymondville                 | reach 2                   | 119237           | 732.00             | 18.38     | 26.92     | 20.42     | 26.93          | 0.000061    | 0.99        | 1499.66     |           |  |
| raymondville                 | reach 2                   | 119237.*         | 1235.00            | 18.38     | 28.78     | 21.23     | 28.78          | 0.000021    | 0.66        | 4470.40     |           |  |
| raymondville                 | reach 2                   | 119237.*         | 1728.00            | 18.38     | 30.08     | 21.90     | 30.08          | 0.000013    | 0.58        |             |           |  |
| raymondville                 | reach 2                   | 119237.*         | 5455.00            | 18.38     | 33.75     | 26.68     | 33.75          | 0.000007    | 0.53        | 20286.72    | 4509.88   | 1  |
|                              | 26 La 190 god's 'n in 190 | 440000           | 700.00             |           |           | 20.00     | 20.00          | 0.000004    | 1.01        | 1462.55     | 1014.79   |  |
| raymondville                 | reach 2                   | 118822.*         | 732.00<br>1235.00  | 18,34     | 28.78     | 20.38     | 28.92<br>28.78 | 0.000081    | 0.70        |             |           | _  |
| raymondville<br>raymondville | reach 2                   | 118822.*         | 1728.00            | 18.34     | 30.08     | 21.19     | 30.08          | 0.000022    | 0.60        |             | 3312.06   |  |
|                              | reach 2                   | 118822.*         | 5455.00            | 18.34     | 33.75     | 26.62     | 33.75          |             | 0.53        |             |           |  |
| raymondville                 | TORUM Z                   | 1100221          | 3433.00            | 10.34     | 33.75     | 20.02     | 33.73          | 0.00007     | 0.33        | 22313.34    | 3/20.4    | 1  |
| raymondville                 | reach 2                   | 118407           | 732.00             | 18.30     | 26.89     | 20.34     | 26.90          | 0.000051    | 0.96        | 1570.94     | 1004.94   | <del>                                     </del> |
| raymondville                 | reach 2                   | 118407           | 1235.00            | 18,30     | 28.77     | 21.15     | 28.77          | 0.000018    | 0.66        | 4864.24     |           |  |
| raymondville                 | reach 2                   | 118407           | 1728.00            | 18.30     | 30.07     | 21.82     | 30.08          | 0.000012    | 0.58        |             |           | +  |
| raymondville                 | reach 2                   | 118407           | 5455.00            | 18.30     | 33.75     | 26.62     | 33.75          |             | 0.49        |             |           | +  |
| - Justina                    |                           | 1 3 200          |                    |           |           | 20.02     | 33.73          |             | 3.40        |             |           | 1  |
| raymondville                 | reach 2                   | 118184.*         | 732.00             | 18.28     | 26.88     |           | 26.89          | 0.000051    | 0.94        | 1551.07     | 984.91    | 1  |
| raymondville                 | reach 2                   | 118184.*         | 1235.00            | 18.28     | 28.77     |           | 28.77          |             | 0.65        |             |           |  |
| raymondville                 | reach 2                   | 118184.*         | 1728.00            | 18.28     | 30.07     |           | 30.07          | 0.000009    | 0.52        |             | 3260.64   | _  |
| raymondville                 | reach 2                   | 118184.*         | 5455.00            | 18.28     | 33.75     |           | 33.75          |             | 0.50        |             |           |  |
| 1, 1, 2                      | TEAL TYPE                 |                  |                    |           |           |           |                |             |             |             |           |  |
| raymondville                 | reach 2                   | 117962.*         | 732.00             | 18.25     | 26.87     |           | 26.87          | 0.000053    | 0.94        | 1529.29     | 991.43    | 3  |
| raymondville                 | reach 2                   | 117982.*         | 1235.00            | 18.25     | 28.76     |           | 28.77          |             |             |             |           |  |
| raymondviile                 | reach 2                   | 117982.*         | 1728.00            | 18.25     | 30.07     |           | 30.07          |             |             | 8602.76     | 3253,0    | В  |
| raymondville                 | reach 2                   | 117982.*         | 5455.00            | 18.25     | 33.74     |           | 33.75          | 0.000006    | 0.50        | 24057.89    | 4799.00   | 3  |
| 11 11 11 11                  |                           |                  |                    |           |           |           |                |             |             |             |           |  |
| raymondville                 | reach 2                   | 117739.*         | 732.00             | 18.23     | 26.85     |           | 26.86          |             |             |             |           | +  |
| raymondville                 | reach 2                   | 117739.*         | 1235.00            | 18.23     | 28.76     |           | 28.76          |             |             |             |           |  |
| raymondville                 | reach 2                   | 117799.*         | 1728.00            | 18.23     | 30.07     |           | 30.07          |             |             |             |           |  |
| raymondville                 | reach 2                   | 117739.*         | 5455.00            | 18.23     | 33.74     |           | 33.74          | 0.000008    | 0.49        | 23700.80    | 4465.3    | 8  |
| gradajin i v                 |                           |                  |                    |           |           |           |                |             |             |             |           | -  |
| raymondville                 | reach 2                   | 117517.*         | 732.00             | 18.20     | 26.84     |           | 26.85          |             |             |             |           |  |
| raymondville                 | reach 2                   | 117517.*         | 1235.00            |           | 28.76     |           | 28.78          | +           |             |             |           |  |
| raymondville                 | reach 2                   | 117517.*         | 1728.00            | 18.20     | 30.07     |           | 30.07          | <del></del> |             |             |           |  |
| raymondville                 | reach 2                   | 117517.*         | 5455.00            | 18.20     | 33.74     |           | 33.74          | 0.000008    | 0.49        | 23503.00    | 4356.4    | 8  |
| 7 - 100,000                  | - Project 12              | J 4 4 4 1        |                    |           |           | ****      |                |             |             |             | -         |  |
| raymondville                 | reach 2                   | 117295           | 732.00             | 18,18     | 26.82     |           | 26.83          |             |             | +           |           |  |
| raymondville                 | reach 2                   | 117295           | 1235.00            | 18,18     | 28.75     |           | 28.75          |             |             |             |           |  |
| raymondville                 | reach 2                   | 117295           | 1728.00            |           | 30.06     |           | 30.07          |             |             |             |           |  |
| raymondville                 | reach 2                   | 117295           | 5455.00            | 18.18     | 33.74     |           | 33.74          | 0.000008    | 0,48        | 23335.5     | 4311.1    | 9  |
|                              | 14 4 A                    | 1 1 1 1 1        | <u> </u>           |           |           |           |                |             | ļ           | <del></del> |           | 1  |
|                              | reach 2                   | 114850           | 732.00             | 17.93     | 26.59     |           | 26.62          | 0.000125    | 1.43        | 513.6       | 76.6      |  |
| raymondville                 |                           |                  |                    |           |           |           |                |             |             |             |           |  |
| raymondville<br>raymondville | reach 2                   | 114850<br>114850 | 1235.00<br>1728.00 | 17.93     | 28.60     |           | 28.65          |             | <del></del> |             | +         |  |

n: P. 25% 3.(Continued) Reach River Sta O Total DΔS Plan Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Wichh Froude # Chl River (ft) (ft/ft) (sq ft) (ft) (ft) (fl/s) (ft) raymondvilla 114401.\* 732.00 17,88 26,53 26.56 0.000126 1.40 524.17 81.60 0.10 1,77 697.46 91.80 0.11 28.53 0.000162 raymondvilla reach 2 28.58 114401 1235.00 17.88 822.00 0.000202 2.10 98.42 0.13 raymondville 17.88 29.84 29.9 1728.00 reach 2 114401 4885 BE 0.06 5455.00 17.88 114401. 33.67 raymondville reach 2 119953.\* 87.51 732 00 17.84 26 47 26 50 0.000130 1.36 531.95 0.10 raymondville reach 2 raymondville each 2 113953.\* 1235.00 17.84 28 46 28.50 0.000165 1.72 719.66 101.14 0,11 956.58 raymondville 1002.82 0.13 each 2 112053+ 1728.00 17.84 29.75 29 82 0.000195 2.00 4861.57 0.64 0.04 raymondville 0.000020 16199.68 ach 2 113953.\* 5455.00 17.84 33.67 33.67 26.44 118504 732.00 17.79 26.41 0.000140 1.36 539 00 95.83 0.10 raymondville reach 2 1235.00 17.79 28.39 28.43 0.000161 1 63 856 3B 624 02 0.11 raymondville 113504 rer sh 2 raymondville 1728.00 17 79 29.73 29.75 0.000084 1 33 2940 18 2492.38 0.08 reach 2 113504,\* 5455.00 17.79 33.66 33.67 0.000012 0.65 19384.78 4749.23 0.03 raymondville each 2 111.42 0.11 1.34 raymondville 26.38 0.000161 547.99 ach 2 113056. 732.00 17.75 26.35 1666.45 0.07 1235.00 17.75 28.37 28.39 0.000070 1.08 raymondville anch 2 113056. 113056. 1728.00 0.000029 0.79 5542.17 3127.06 0.05 17.75 29.72 29.73 raymondville each 2 raymondville 5455.00 17.75 33.66 33.66 0.000007 0.52 22255.82 4609 74 D 03 anch 2 113056. 17.70 1121.67 0.09 raymondville 26.31 26.33 0.000108 1149.72 roach 2 112608 732.00 1.06 0.64 2428.29 0.04 raymondville 28.36 4410.95 reach 2 112608 1235.00 17.70 28.36 0.000024 3163.63 raymondville 29.71 29.71 0.000011 0.48 8194.21 0.03 reach 2 112608 1728.00 17.70 5455.00 17.70 33.65 33.65 0.000005 0.43 24825.85 4459.42 0.02 112608 raymondville reach 2 290.85 raymondville reach 2 112513.\* 732 00 17.69 26 29 26.32 0.000156 1.32 560.99 0.10 raymondville 2720.04 1791.88 0.07 mach 2 112513.\* 1235.00 17.69 28.34 28.35 0.000054 0.98 0.70 6313.43 0.04 0.000022 reach 2 112513 1728.00 17.69 29.70 29.70 raymondville 4846.35 0.02 0.000000 23888.29 raymondville 5455.00 17.69 33.65 33.65 reach 2 112513 0.10 732.00 17.69 26.27 26.30 0.000137 1.35 540.84 94.92 raymondville 12419. reach 2 112419.\* 1231.77 0.10 raymondville reach 2 1235.00 17.69 28.31 28.34 0.000130 1.52 1227.69 raymondville each 2 112419." 1728.00 17.69 29.69 29.70 0.000053 1,09 4258,20 3318.39 0.07 0,54 23403.16 5453.20 0.03 raymondville each 2 112419 5455 00 17.69 33.64 33,64 0.0000008 732.00 526.57 R4 47 0.10 112324. 17.68 26.28 0.000129 1.39 raymondville reach 2 112324 1235.00 17.68 28.29 28.34 0.000161 1 74 709.74 95.95 0.11 raymondvilk reach 2 112324. 1728.00 17.68 29.63 20 66 0.000141 1 79 1965 74 2757 10 0 11 raymondville reach 2 5455.00 17.68 33.64 33.64 0.000009 0.58 22981.72 5726.60 0.03 reach 2 112324 raymondville 1.44 76.29 0.10 raymondville 732.00 17.67 26,28 0.000129 507.11 each 2 112230 26.24 0.000168 0.12 28.32 1.84 669.61 84.39 17,67 28.27 raymondville heach 2 112230 1235,00 raymondville 1728,00 17.67 29.56 29.6 0.000212 2.20 783.98 B9.64 0.13 reach 2 112230 17.67 33.63 33.63 0.000010 D.61 22600.23 6000 00 0.03 raymondville each 2 12230 raymondville 504.65 76.17 0.10 each 2 110608 732 00 17.50 26.04 26.07 0.000131 1.45 83.98 0.12 raymondville 0.000174 1.87 661.12 110ADA 1235 00 17.50 28.00 28.05 marts 9 88.93 29.3 0.000224 2.25 raymondville 17.50 reach 2 10608 1728.00 29.23 raymondville 17.50 33.6 0.000010 0.62 22518.31 6000,00 0.03 5455.00 33.61 each 2 11060B 201.00 21 30 32.27 32 27 0.000004 0.29 701.66 85.89 0.02 raymondville 144530 reach 3 (south) 94.77 144530 343 00 21.30 34 49 34.49 0.000006 0.38 902.07 0.02 raymondville reach 3 (south) raymondville 0.23 6503.73 3516.52 0.01 reach 3 (south 144530 528.00 21.30 36.56 36.56 0.000002 0.000001 0.17 15728.37 3516.52 0.01 raymondville 39.18 144530 1148.00 21.30 39.18 each 3 (south 32.27 32.27 0.000004 0.29 701.55 85 89 0.02 201.00 21.30 144230 raymondville reach 3 (south 343.00 21.30 34.49 34.49 0.000006 0.38 901.91 94 76 0.02 raymondville reach 3 (south) 144230 raymondville 3516,52 0.01 528.00 21.30 36.55 36.56 0.000002 0.23 6502.02 reach 3 (south) 144230 3516.52 0.01 raymondville 0.17 15727.64 each 3 (south 144230 1148.00 21.30 39.18 39.18 0.000001 26.10 32.22 27.56 32.27 0.000175 1 64 122 43 44.50 0.12 raymondville 201.00 reach 3 (south) 144030 0.000184 2.06 166.26 53.26 0.13 343.00 26.10 34.42 28.19 34.48 144030 raymondville reach 3 (south) 528.00 26.10 36.44 28.88 36.54 0.000211 2.55 206.80 61.37 0.14 144030 raymondville reach 3 (south) 2554.83 0.12 1148.00 26.10 39 12 30.77 39.17 0.000170 1.89 891.38 44030 raymondville each 3 (south) 32.27 1.64 122.42 44,50 0.12 raymondville ch 3 (south) 201.00 26,10 32,22 27.56 0.000175 144020 34.41 28.19 34.48 0.000184 2.06 166.22 53.2€ 0,13 26.10 raymondville 343.00 reach 3 (south) 144020 28.88 36.54 0.000211 2.55 206.75 61.36 0.14 528.00 36.44 raymondville 26.10 144020 reach 3 (south) 39.12 30.78 39.17 0.000171 1.89 887.52 2554.83 0.12 144020 1148.00 26.10 raymondville reach 3 (south) reach 3 (south) 144005 Culver raymondville 27.56 31.98 0.000206 1.72 116.60 43.33 0.13 26.10 raymondvilla 201.00 31.93 sch 3 (south) 143990 2.24 152.86 50.58 0 14 28.19 33.82 0.000243 raymondville 343.00 26.10 33.75 reach 3 (south) 143990 34.94 28.88 0.000375 3.04 173.96 54.8 0.18 528.00 26.10 34.80 raymondville reach 3 (south) 143990 26.10 35.87 30.78 36.41 0.001204 5.88 195.32 59.08 0.33 1148.0 143990 raymondville reach 3 (south) 1.09 43.38 0.09 185.24 raymondville each 3 (south) 143080 201.00 26.10 31.95 31.96 0.000134 50.68 0.10 0.000136 1.27 271.10 raymondville 33.80 reach 3 (south) 143980 343.00 26,10 33.77 0.000191 1 61 328.13 55.00 0.12 26,10 34.85 reach 3 (south) 528.00 raymondville 143980 36.19 0.000534 2.89 397.91 59.86 0.20 26.10 36.07 raymondville reach 3 (south) 143980 1148.00

|   | Reach                                 | River Sta         |  |               | W.S. Elev    | Crit W.S.    |              | E.G. Slope   | 45.4         | 4 45        |             |  |
|---|---------------------------------------|-------------------|--|---------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--|
| in a singe  | The state of the                      |                   | (cfs)  | (h) :         | (ft)         | (ft)         | (R)          | (ft/ft)      | (fVs)        | (sq ft)     | (ft)        | <u>,</u>   |
| ondville  | reach 3 (south)                       | 141900            | 201.00   | 25.82         | 31.67        |              | 31.69        | 0.000134     | 1.08         | 185.33      | 43.39       | 0.0  |
|   | reach 3 (south)                       | 141900            | 343.00   | 25.82         | 33.49        |              | 33.51        | 0.000136     | 1.27         | 270.94      | 50.67       | 0.1  |
|   |                                       | 141900            | 528.00   | 25.82         | 34.62        |              | 34.64        | 0,000081     | 1.08         | 2339.85     | 3997.98     | 0.0  |
| ondville  | reach 3 (south)                       |                   |  |               |              |              |              | 0.000023     | 0.68         | 9448.70     | 5708.06     | 0.0  |
| ondville  | reach 3 (south)                       | 141900            | 1148.00  | 25.82         | 36.03        |              | 36.03        | 0.000023     | 0.001        |             | 3700,00     |  |
|   |                                       |                   |  |               |              |              |              |              |              |             |             |  |
| ondville  | reach 3 (south)                       | 140581            | 201.00   | 25.65         | 31.50        |              | 31.52        | 0.000133     | 1.08         | 185.40      | 43.40       | 0.0  |
| ondville  | reach 3 (south)                       | 140581            | 343.00   | 25.65         | 33.32        |              | 33.34        | 0.000132     | 1.25         | 375.22      | 703.64      | 0.0  |
|   |                                       | +                 | 528.00   | 25.65         | 34.55        |              | 34.56        | 0.000052     | 0.87         | 2768.45     | 3157.63     | 0.0  |
| ondville  | reach 3 (south)                       | 140581            |  |               |              |              |              |              |              |             |             |  |
| ondville  | reach 3 (south)                       | 140581            | 1148,00  | 25.65         | 38.00        |              | 36.00        | 0.000021     | 0.63         | 9052.16     | 5278.63     | 0.0  |
| 1   |                                       |                   |  | l             | 1            |              | Ì            |              |              |             |             |  |
| ondville  | reach 3 (south)                       | 139474            | 201.00   | 25.51         | 31.35        |              | 31.37        | 0.000134     | 1.09         | 185.05      | 43.36       | 0.0  |
|   |                                       |                   |  | 25.51         | 33.17        |              | 33.19        | 0.000136     | 1.26         | 299.72      | 394.34      | 0,1  |
| ondville  | reach 3 (south)                       | 139474            | 343.00   |               |              |              |              |              |              |             |             |  |
| ondvilje  | reach 3 (south)                       | 139474            | 528.00   | 25.51         | 34.48        |              | 34.49        | 0.000057     | 0.91         | 2539.83     | 3005.27     | 0.0  |
| ondville  | reach 3 (south)                       | 139474            | 1148.00  | 25.51         | 35.97        |              | 35.98        | 0.000022     | 0.65         | 8894.31     | 5245.19     | 0.0  |
| Yersub rive   | Militar Street Service                |                   |  |               |              |              |              |              |              |             |             |  |
| . 22  |                                       | 1.00070           | 201.00   | 25.32         | 31.15        |              | 31.17        | 0.000135     | 1.09         | 184.72      | 43.33       | 0.0  |
| ondville  | reach 3 (south)                       | 138078            |  |               |              |              |              |              |              |             |             | 0,   |
| ondville  | reach 3 (south)                       | 138076            | 343.00   | 25.32         | 32.96        |              | 32.99        | 0.000138     | 1.27         | 269,79      | 50.58       |  |
| ondville  | reach 3 (south)                       | 138076            | 528.00   | 25.32         | 34.39        |              | 34.40        | 0.000084     | 0.97         | 2266.70     | 2807.47     | 0.   |
| ondville  | reach 3 (south)                       | 138076            | 1148.00  | 25. <b>32</b> | 35.94        |              | 35.94        | 0.000023     | 0.68         | 8703.71     | 5201.02     | 0.   |
| NAME OF THE PARTY | Teach o (somi)                        | 1,000.0           | 11.40.00   |               |              |              |              |              |              |             | 1           |  |
| Calconding  | Mars                                  |                   |  |               | i            |              | ·            |              |              |             |             |  |
| ondville  | reach 3 (south)                       | 138026            | 201.00   | 25.14         | 30.96        |              | 30.97        | 0.000138     | 1.09         | 183.98      | 43.26       | 0.   |
| ondville  | reach 3 (south)                       | 138026            | 343.00   | 25.14         | 32.78        |              | 32.79        | 0.000140     | 1.28         | 268.53      | 50.48       | 0.   |
| ondville  | reach 3 (south)                       | 138026            | 528.00   | 25.14         | 34.28        |              | 34.29        | 0.000073     | 1.04         | 1990.56     | 2591.66     | 0.   |
|   | · · · · · · · · · · · · · · · · · · · |                   |  |               |              |              |              | 0.000023     | 0.68         | 8526.54     | 5158.88     | 0.   |
| rendville   | reach 3 (south)                       | 138026            | 1148.00  | 25.14         | 35.90        |              | 35.90        | 0.000023     | 0.08         | 5520.54     | 3130.00     | <u>u.</u>  |
| <u> </u>  | <u>1808 (2 909 8 80</u>               |                   |  |               |              |              | 1            |              |              |             |             | <u></u> .  |
| rondville   | reach 3 (south)                       | 136620            | 201.00   | 24.96         | 30.76        |              | 30.78        | 0.000138     | 1.10         | 183.17      | 43.18       | 0  |
|   | reach 3 (south)                       | 136620            | 343.00   | 24.96         | 32.58        |              | 32.58        | 0.000141     | 1.28         | 267.22      | 50.36       | 0.   |
| nondville   |                                       |                   |  |               |              |              | <del> </del> |              | 1.19         | 1423.12     | 1906.06     | 0  |
| ondville  | reach 3 (south)                       | 136620            | 528.00   | 24.96         | 34.16        |              | 34.17        | 0.000098     |              |             |             |  |
| nondville   | reach 3 (south)                       | 138620            | 1148.00  | 24.98         | 35.86        |              | 35.86        | 0.000031     | 0.77         | 7350.23     | 4901.66     | . 0  |
| 1 / 1 / 14 /  | Mar Okasa N                           |                   |  |               |              |              | I T          | - · Ţ        | T            | 7           |             |  |
| - Hardway   | reach 3 (south)                       | 135048            | 201.00   | 24.75         | 30.55        |              | 30.57        | 0.000138     | 1.10         | 183.24      | 43.20       | 0  |
| nondville   |                                       |                   |  |               |              |              | 32.36        | 0.000142     | 1.29         | 266.68      | 50.34       | 0  |
| nondville   | reach S (south)                       | 135048            | 343.00   | 24.75         | 32.33        |              |              |              |              |             |             | - 0  |
| nondville   | reach 3 (south)                       | 135048            | 528.00   | 24.75         | 33,99        |              | 34.01        | 0.000117     | 1.30         | 1027.73     | 1421.10     |  |
| nondvitle   | reach 3 (south)                       | 135048            | 1148.00  | 24.75         | 35.79        |              | 35.80        | 0.000043     | 0.90         | 5787.27     | 3790.35     |  |
|   | 1 1000                                |                   |  |               |              |              | 1            |              |              |             |             |  |
| San Albert  |                                       |                   |  | 24.50         |              |              | 20.00        | 0.000140     | 1.10         | 182.33      | 43.12       | 0  |
| nondville   | reach 3 (south)                       | 133745            | 201.00   | 24.58         | 30.36        |              | 30.38        | 0.000140     |              |             |             |  |
| nondville -   | reach 3 (south)                       | 133745            | 343.00   | 24.58         | 32.15        |              | 32.17        | 0.000144     | 1.29         | 265.83      | 50.27       | 0  |
| nondville   | reach 3 (south)                       | 133745            | 528.00   | 24.58         | 33.82        |              | 33.85        | 0.000129     | 1.36         | 821.81      | 1191.47     | q  |
|   |                                       |                   | 1148.00  | 24.58         | 35.73        |              | 35.74        | 0.000046     | 0.93         | 5555.42     | 3709.05     |  |
| nondville   | reach 3 (south)                       | 133745            | 1146.00  | 24.30         | 33.73        | <del></del>  | 33.74        | 0.000040     | 0.50         | 3555.42     | 5.55.55     |  |
| 地址 医鞘线  |                                       |                   |  |               |              |              | <u> </u>     |              |              |             |             |  |
| nondville   | reach 3 (south)                       | 132244            | 201.00   | 24.39         | 30,14        | ļ            | 30.16        | 0.000142     | 1.11         | 181.16      | 43.00       |  |
| nondville   | reach 3 (south)                       | 132244            | 343.00   | 24.39         | 31.92        |              | 31.95        | 0,000146     | 1,30         | 264.16      | 50.13       | C  |
|   |                                       |                   |  | 24.39         | 33.61        |              | 33.64        | 0.000143     | 1.43         | 613.72      | 901.09      | 0  |
| mondvilie   | reach 3 (south)                       | 132244            | 528.00   |               |              |              | +            |              |              |             |             |  |
| mondville   | reach 3 (south)                       | 132244            | 1148.00  | 24.39         | 35.67        |              | 35.67        | 0.000044     | 0,91         | 6176.65     | 4873.54     | C  |
| Mary Arguit   |                                       | The Market of the |  |               |              | 1            | 1            |              |              |             |             |  |
| 1.71-   |                                       | 130592            | 201.00   | 24.17         | 29.91        | i            | 29.93        | 0.000143     | 1.11         | 180.74      | 42.98       |  |
| mondville   | reach 3 (south)                       |                   | 1  |               |              |              | +            |              |              | 263.36      | 50.07       |  |
| mondville   | reach 3 (south)                       | 130592            | 343.00   | 24.17         | 31.69        |              | 31.71        | 0.000147     | 1.30         |             |             |  |
| nondville   | reach 3 (south)                       | 130592            | 528.00   | 24.17         | 33.37        | l            | 33.40        | 0.000158     | 1.50         | 353.12      | 56.79       |  |
| nondville   | reach 3 (south)                       | 130592            | 1148.00  | 24.17         | 35.62        |              | 35.62        | 0.000027     | 0.75         | 8955.08     | 6500.00     |  |
| ENTERTED  | Tours o (occurs)                      |                   |  |               |              |              | 1            |              |              |             |             |  |
| and the second  | Halficher i State de                  |                   | <del>                                     </del> |               |              | <del> </del> |              |              |              | 470 70      | 40.07       | · · · · · · · · · · · · · · · · · · ·            |
| mondville 🗀   | reach 3 (south)                       | 129120            | 201.00   | 23.98         | 29.70        | 1            | 29.72        | 0.000145     | 1.12         | 179.76      |             |  |
| mondville   | reach 3 (south)                       | 129120            | 343.00   | 23.98         | 31.47        | <u>'</u>     | 31.49        | 0.000149     | 1,31         | 261.91      | 49.95       | 1 (  |
| nondville   | reach 3 (south)                       | 129120            | 528.00   | 23.98         | 33.13        | ı T          | 33.17        | 0.000159     | 1.51         | 350.59      | 58.81       |  |
|   |                                       |                   |  |               |              | +            | 35.58        | 0.000029     | 0.78         |             |             |  |
| nondville   | reach 3 (south)                       | 129120            | 1148.00  | 23.98         | 35.57        | <del> </del> | 35.58        | 0.000029     | 0.78         | 3031,48     | 0.000.00    | <del>                                     </del> |
|   | grafi, y felhasilk                    |                   |  |               |              | L            |              |              |              |             | <del></del> | <del></del>                                      |
| mondville   | reach 3 (south)                       | 127694            | 201.00   | 23.79         | 29.49        | ) <u> </u>   | 29.51        | 0.000148     | 1.12         | 178.79      | 42.78       |  |
|   |                                       | 127894            | 343.00   | 23.79         | 31.25        |              | 31.28        | 0.000152     | 1.32         | 280.47      | 49.84       |  |
| mondville   | reach 3 (south)                       |                   | <del></del>                                      |               |              |              | 32.93        | 0.000163     | 1.52         |             |             |  |
| mondville   | reach 3 (south)                       | 127694            | 528.00   | 23.79         | 32.90        |              |              |              |              |             |             | <del></del>                                      |
| mondville   | reach 3 (south)                       | 127694            | 1148.00  | 23.79         | 35,52        | <u>'</u>     | 35.53        | 0.000031     | 0.81         | 8348.05     | 6500.00     | <del></del>                                      |
| 30.00   | 7 JAY ( F 15 55)                      | 10 10 10          |  | · ·           | l            |              | 1            | L            |              | L           | <u> </u>    | L  |
| mond die  | reach 3 (south)                       | 126200            | 201.00   | 23.60         | 29.26        | 3            | 29.28        | 0.000151     | 1.13         | 177.99      | 42.65       |  |
| mondville   |                                       |                   |  | 23.60         |              |              | 31.05        |              |              | <del></del> |             |  |
| mondville   | reach 3 (south)                       | 126200            | 343.00   |               |              |              |              |              |              | <del></del> |             |  |
| mondville   | reach 3 (south)                       | 126200            | 528.00   | 23.60         |              | <del></del>  | 32.69        |              | 1.53         |             |             |  |
| mondvilla   | reach 3 (south)                       | 126200            | 1148.00  | 23.60         | 35.46        | 81           | 35.48        | 0.000033     | 0.84         | 8044.76     | 6500.00     | )  |
| Jayaily 1   | na jeden er sekt detat. Nobele        |                   | 1  |               |              |              |              |              | 1            | 1           | L           | 1  |
| 2.50  |                                       | 126152            | 201.00   | 23.59         | 29.26        | R            | 29.28        | 0.000151     | 1.13         | 177.49      | 42.86       | 3  |
| mondville   | reach 3 (south)                       |                   |  |               |              |              |              | <del></del>  |              | <del></del> |             | -  |
| mondville   | reach 3 (south)                       | 126152            | 343.00   | 23.59         |              |              | 31.04        |              |              |             |             |  |
| mondville   | reach 3 (aouth)                       | 126152            | 528.00   | 23.59         | 32.64        | 4            | 32.68        | 0.000187     |              |             |             |  |
|   | reach 3 (south)                       | 126152            | 1148.00  | 23.59         |              |              | 35.48        | 0.000033     | 0.84         | 8034.34     | 6500.00     | ol -   |
| mondville   | HODALO (SONAL)                        | 120105            | 1740.00  | 25.35         | 1            | +            | 30.70        | 1            | T            | T           | T           | ī  |
| Assess 7 A  |                                       |                   | <b></b>  |               | <del> </del> |              |              | <del> </del> | <del> </del> | 177.00      | 7 42.4      | 1  |
| mondville   | reach 3 (south)                       | 124435            | 201.00   | 23.37         | 28.99        | 9            | 29.01        |              | <del></del>  |             |             |  |
| mondville   | reach 3 (south)                       | 124435            | 343.00   | 23.37         | 30.7         | 4            | 30.77        | 0.000159     | 1.34         | 256.1       | 8 49.4      | 9  |
|   |                                       |                   |  |               |              |              | 32.39        |              |              | <del></del> | 55.9        | 3  |
| mondville   | reach 3 (south)                       | 124435            | 528.00   | 23.37         |              |              |              | <del></del>  | <del></del>  |             |             |  |
| mondville   | reach 3 (south)                       | 124435            | 1148.00  | 23.37         | 35.4         | 2            | 35.42        | 0.000030     | 0.84         | 7685.9      | 5500.0      | 4  |
| Jr. 2 9 17 1  | al deriver with                       | e 15              |  |               |              | 1            | 1            | i            | L            |             | 1           | 4  |
|   | Parel D January                       | 123138            | 201.00   | 23.20         | 28.7         | 9            | 28.81        | 0.000156     | 1.19         | 174.2       | 4 42.3      | 5  |
| mondville   | reach 3 (south)                       |                   |  |               |              |              |              |              |              |             |             |  |
| mondville   | reach 3 (south)                       | 123138            | 343.00   |               |              |              | 30.56        |              |              | <del></del> |             |  |
| mondville   | reach 3 (south)                       | 123138            | 528.00   | 23.20         | 32.1         | 3            | 32.16        |              |              |             |             |  |
|   | reach 3 (south)                       | 123138            | 1148.00  |               |              | 161          | 35.37        | 0.00003      | 0.9          | 7334.5      | 6500.0      | 0  |
| ymondville  | LOCAL O (SOURI)                       | 1.20,00           | 1,140.00   | 1             | 1            | +            |              | 1            | 1            |             | T           |  |
| 1 (1)   | 4                                     |                   | <del></del>                                      | ļ             | 1            |              |              |              |              |             | 7 40 4      | -  |
| mondviše  | reach 3 (south)                       | 121629            | 201.00   |               |              |              | 28.56        |              |              |             | <del></del> |  |
| THOUGH ING  |                                       | 1                 | 1  | 20.00         |              |              |              | 1 000010     | B 1.3        | 7 251.0     | 0 49.0      | 71   |
| mondville   | reach 3 (south)                       | 121629            | 343.00   | 23.0          | 1 30.2       | 28           | 30.31        | 0.00016      | 1.3          | 251.0       | 3 55.3      |  |

| Pilver   | Plan: P 25%<br>Reach | River Sta        | Q Total            | Min Ch El      | W.S. Elev | Crit W.S. | E.G. Elev      | E.G. Slope           | Vel Chni     | Flow Area        | Top Width      | Froude # Chl                          |
|--|----------------------|------------------|--------------------|----------------|-----------|-----------|----------------|----------------------|--------------|------------------|----------------|---------------------------------------|
|  |                      | 2.03             | (cfs)              | (ft)           | (ft)      | (ft) :    | (ft)           | (ft/H)               | (fVe)        | (eq ft)          | (ft)           |                                       |
| raymondville                                   | reach 3 (south)      | 121629           | 1148.00            | 23.01          | 35.29     |           | 35.30          | 0.000044             | 0.97         | 6883.58          | 6500.00        | 0.06                                  |
| raymondville                                   | reach 3 (south)      | 120128           | 201.00             | 22.81          | 28.29     |           | 20.00          | 0.000470             |              |                  |                |                                       |
| raymondville                                   | reach 3 (south)      | 120128           | 343.00             | 22.81          | 30.02     |           | 28.30<br>30.05 | 0,000172<br>0,000173 | 1.19         | 169,34           | 41.89          | 0.10                                  |
| raymondville                                   | reach 3 (south)      | 120128           | 528,00             | 22.81          | 31.56     |           | 31.60          | 0.000173             | 1.38         | 248.24<br>328.22 | 48.85<br>55.01 | 0.11                                  |
| raymondville                                   | reach 3 (south)      | 120128           | 1148.00            | 22.81          | 35.22     |           | 35.23          | 0.000049             | 1.03         | 6433.44          | 6500,00        | 0.12                                  |
|  |                      | 46.27            |                    |                |           |           |                |                      |              |                  | 3330.02        |                                       |
| raymondville                                   | reach 3 (south)      | 120078           | 201.00             | 22.80          | 28.27     |           | 28.30          | 0.000172             | 1.19         | 169.39           | 41.89          | 0.10                                  |
| raymondville                                   | reach 3 (south)      | 120078           | 343.00             | 22.80          | 30.01     |           | 30.04          | 0.000173             | 1.38         | 248.30           | 48.85          | 0.11                                  |
| raymondville                                   | reach 3 (south)      | 120078           | 528.00             | 22.80          | 31.55     | <u> </u>  | 31.59          | 0.000191             | 1.61         | 328.24           | 55.01          | 0.12                                  |
| raymondville                                   | reach 3 (south)      | 120078           | 1148,00            | 22.80          | 35.22     |           | 35.23          | 0.000049             | 1.03         | 6416.96          | 6500.00        | 0.06                                  |
| raymondville                                   | reach 3 (aouth)      | 118101           | 201.00             | 22.55          | 27.92     |           | 27.94          | 0.000184             | 4.00         | 405.00           |                |                                       |
| reymondville                                   | reach 3 (south)      | 118101           | 343.00             | 22.55          | 29.66     |           | 29.69          | 0.000184             | 1.22<br>1.41 | 165.06<br>243.21 | 41.48<br>48.43 | 0.11                                  |
| raymondville                                   | reach 3 (south)      | 118101           | 528.00             | 22.55          | 31.16     |           | 31,20          | 0.000204             | 1.65         | 320.40           | 54.44          | 0.11<br>0.12                          |
| raymondville                                   | reach 3 (south)      | 118101           | 1148.00            | 22.55          | 35,11     |           | 35.12          | 0.000059             | 1.13         | 5717.63          | 6500.00        | 0.07                                  |
|  | \$ 200               |                  |                    |                |           |           |                |                      |              |                  | 525.00         | 0.01                                  |
| raymondville                                   | reach 3 (south)      | 118051           | 201.00             | 22.54          | 27.91     |           | 27.93          | 0.000184             | 1.22         | 185.09           | 41.48          | 0.11                                  |
| raymondville                                   | reach 3 (south)      | 118051           | 343.00             | 22.54          | 29.65     |           | 29.68          | 0.000183             | 1.41         | 243.25           | 48.44          | 0.11                                  |
| raymondville                                   | reach 3 (south)      | 118051           | 528.00             | 22,54          | 31.15     |           | 31.19          | 0.000204             | 1.65         | 320.38           | 54.43          | 0.12                                  |
| reymondville                                   | reach 3 (south)      | 118061           | 1148.00            | 22.54          | 35.10     |           | 35,12          | 0.000059             | 1.14         | 5697,91          | 6500.00        | 0.07                                  |
| raymondville                                   | reach 3 (south)      | 116902           | 201,00             | 22.39          | 27.69     |           | 27.72          | 0.000400             |              | 100.0            |                |                                       |
| raymondville                                   | reach 3 (south)      | 116902           | 343.00             | 22.39          | 27.69     |           | 27.72          | 0.000193             | 1.24         | 162.30<br>240.11 | 41.21<br>48.18 | 0.11<br>0.11                          |
| raymondvilla                                   | reach 3 (south)      | 116902           | 528.00             | 22.39          | 30.91     |           | 30.95          | 0.000190             | 1.43         | 315.46           | 48.18<br>54.07 | 0.11                                  |
| raymondville                                   | reach 3 (south)      | 116902           | 1148.00            | 22.39          | 35.03     |           | 35.04          | 0.000067             | 1.21         | 5217.92          | 6500.00        | 0.12                                  |
| 4 (4 (4 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 | .72.6 8 1 2 5 1      |                  |                    |                |           |           |                |                      |              |                  |                |                                       |
| raymondville                                   | reach 3 (south)      | 114860           | 201.00             | 22.13          | 27.27     |           | 27.30          | 0.000218             | 1.29         | 155,61           | 40.56          | 0.12                                  |
| raymondville                                   | reach 3 (south)      | 114880           | 343,00             | 22.13          | 29.04     |           | 29.07          | 0.000205             | 1.47         | 233.47           | 47.82          | 0.12                                  |
| raymondville<br>raymondville                   | reach 3 (south)      | 114860           | 528.00             | 22.13          | 30.45     |           | 30,50          | 0.000234             | 1.73         | 304.78           | 53.28          | 0.13                                  |
| таутновичне                                    | reach 3 (south)      | 114860           | 1148.00            | 22.13          | 34.85     |           | 34.87          | 0.000104             | 1.50         | 2682.69          | 2554.83        | 0.09                                  |
| raymondville                                   | reach 3 (south)      | 119007           | 201.00             | 21.88          | 26.84     |           | 26.86          | 0.000249             | 1.20         | 140.00           | 90.00          |                                       |
| raymondville                                   | reach 3 (south)      | 115007           | 343.00             | 21.88          | 28.64     |           | 28.67          | 0.000223             | 1.36         | 148.22<br>226.45 | 39.82<br>47.03 | 0.12<br>0.12                          |
| raymondville                                   | reach 3 (south)      | 113007           | 528.00             | 21.88          | 29.99     |           | 30.04          | 0.000259             | 1.80         | 293.73           | 52.44          | 0.12                                  |
| raymondville                                   | reach 3 (south)      | 113007           | 1148.00            | 21.88          | 34.55     |           | 34.61          | 0.000197             | 2.00         | 574.41           | 70.68          | 0.12                                  |
|  |                      | 146, 246, 4      |                    |                |           |           |                |                      |              |                  |                |                                       |
| raymondville                                   | reach 3 (south)      | 112058           | 201.00             | 21.76          | 26.59     |           | 26.62          | 0.000275             | 1.40         | 143.06           | 39.30          | 0.13                                  |
| raymondville                                   | reach 3 (south)      | 112058           | 343.00             | 21.76          | 28.42     |           | 28.45          | 0.000236             | 1.55         | 221.80           | 46.63          | 0.12                                  |
| raymondville                                   | reach 3 (south)      | 112058           | 528.00             | 21.76          | 29.73     |           | 29.79          | 0.000277             | 1.84         | 286.63           | 51.89          | 0.14                                  |
| raymondville                                   | reach 3 (south)      | 112058           | 1148.00            | 21.76          | 34.36     |           | 34.42          | 0.000202             | 2.02         | 569.44           | 70.40          | 0.12                                  |
| raymondville                                   | reach 3 (south)      | 112008           | 201.00             | 21.75          | 26.57     |           | 26.60          | 0.000276             | 1.41         | 142.90           | 20.00          | 0.40                                  |
| raymondville                                   | reach 3 (south)      | 112008           | 343.00             | 21.75          | 28.41     |           | 28.44          | 0.000278             | 1.41         | 221.70           | 39.28<br>46.62 | 0.13                                  |
| raymondville                                   | reach 3 (south)      | 112008           | 528.00             | 21.75          | 29.72     |           | 29.77          | 0.000277             | 1.84         | 286.41           | 51.88          | 0.13                                  |
| raymondville                                   | reach 3 (south)      | 112008           | 1148.00            | 21.75          | 34.35     |           | 34.41          | 0.000202             | 2.02         | 569,43           | 70.39          | 0.12                                  |
| 10.5 V.X (1.7)                                 |                      | 100              |                    |                |           |           |                |                      |              |                  |                |                                       |
|  | reach 3 (south)      | 110270           | 201.00             | 21.53          | 26.02     |           | 26.06          | 0.000360             | 1.55         | 130.08           | 37.98          | 0.15                                  |
| raymondville                                   | reach 3 (south)      | 110270           | 343.00             | 21.53          | 27.96     |           | 28.00          | 0.000270             | 1.62         | 211.43           | 45.73          | 0.13                                  |
|  | reach 3 (south)      | 110270           | 528.00             | 21.53          | 29.19     |           | 29.25          | 0,000323             | 1.95         | 270.71           | 50.65          | 0.15                                  |
| raymondville                                   | reach 3 (south)      | 110270           | 1148.00            | 21.53          | 33.99     |           | 34.05          | 0.000212             | 2.05         | 559.47           | 69.83          | 0,13                                  |
| raymondville                                   | reach t              | 109185           | 861.00             | 17.51          | 25.84     |           | 25.87          | 0.000143             | 1.51         | 570.85           | 07.07          |                                       |
| raymondville                                   | reach 1              | 109185           | 1382.00            | 17.51          | 27.75     |           | 27.80          | 0.000171             | 1.86         | 744.68           | 87.37<br>94.99 | 0.10<br>0.12                          |
| raymondville                                   | reach 1              | 109185           | 1940.00            | 17.51          | 28.91     |           | 28.98          | 0.000226             | 2.26         | 857.53           | 99.63          | 0.12                                  |
| raymondville                                   | reach 1              | 109185           | 5581.00            | 17.51          | 33.27     |           | 33.54          | 0.000542             | 4.19         | 1330.39          | 117.09         | 0.22                                  |
|  |                      |                  |                    |                |           |           |                |                      |              |                  |                |                                       |
|  | reach 1              | 109050           | 861.00             | 17.49          | 25.82     |           | 25.88          | 0.000143             | 1.51         | 570.91           | 87,37          | 0.10                                  |
| raymondville                                   | reach 1              | 109050           | 1382.00            | 17.49          | 27.72     |           | 27.78          | 0.000171             | 1.86         | 744.38           | 94.98          | 0.12                                  |
| raymondville<br>raymondville                   | reach 1<br>reach 1   | 109050<br>109050 | 1940.00<br>5581.00 | 17.49<br>17.49 | 28.87     |           | 28.95          | 0.000226             | 2.27         | 856.46           | 99.59          | 0.14                                  |
| ratymoskivine                                  | reach 1              | 109450           | 5581.00            | 17.49          | 33.19     |           | 33.47          | 0.000550             | 4.22         | 1323.75          | 116.86         | 0.22                                  |
| raymondville                                   | reach 1              | 108145           | 861.00             | 17.35          | 25.76     |           | 25.80          | 0.000138             | 1.49         | 578.16           | 87.70          | 0.10                                  |
| raymondville                                   | reach 1              | 108145           | 1382.00            | 17.35          | 27.65     |           | 27.71          | 0.000167             | 1,84         | 751.08           | 95,26          | 0.10                                  |
|  | reach 1              | 108145           | 1940.00            | 17.35          | 28.78     |           | 28.86          | 0.000223             | 2.25         | 861.08           | 99.77          | 0.12                                  |
| raymondville                                   | reach 1              | 108145           | 5581.00            | 17.35          | 32.93     |           | 33.20          | 0.000782             | 4.24         | 1353.07          | 727,58         | 0.25                                  |
|  |                      | Market C         |                    |                |           |           |                |                      |              |                  |                |                                       |
| raymondville                                   | reach 1              | 107740           | 861.00             | 17.35          | 25.71     |           | 25.74          | 0.000141             | 1.50         | 573.14           | 87.47          | 0.10                                  |
| raymondville                                   | reach 1              | 107740           | 1382.00            | 17.35          | 27.58     |           | 27.64          | 0.000171             | 1.86         | 744.46           | 94.98          | 0.12                                  |
| raymondville<br>raymondville                   | reach 1              | 107740           | 1940.00            | 17.35          | 28.69     |           | 28.77          | 0.000230             | 2.28         | 851.76           | 99.40          | 0.14                                  |
| - CALIFORNIA I                                 | reach 1              | 107740           | 5581.00            | 17.35          | 32.63     |           | 32.92          | 0.000611             | 4.38         | 1274.24          | 115.15         | 0.23                                  |
| raymondville                                   | reach 1              | 106578           | 861.00             | 17.16          | 25.54     | 19.40     | 25.58          | 0,000140             | 1.50         | 575.49           | 87.58          | 0.10                                  |
| raymondville                                   | reach 1              | 106578           | 1382.00            | 17.16          | 27.38     | 20.08     | 27.44          | 0.000172             | 1.86         | 743.55           | 94.94          | 0.10                                  |
| raymondville                                   | reach 1              | 106578           | 1940.00            | 17.16          | 28.42     | 20.71     | 28.50          | 0.000172             | 2.30         | 843.61           | 99.07          | 0.12                                  |
| raymondville                                   | reach 1              | 106578           | 5581.00            | 17.16          | 31.82     | 23.75     | 32.15          | 0.000716             | 4.64         | 1203.98          | 112.68         | 0.25                                  |
|  |                      |                  |                    |                |           |           |                |                      |              |                  |                |                                       |
| <u> </u>                                       | reach 1              | 106370           | 861.00             | 17.13          | 25.51     | 19.36     | 25.55          | 0.000137             | 1.47         | 583.93           | 89.74          | 0.10                                  |
| raymondville                                   |                      |                  |                    |                |           |           |                | 0.000468             | 1.83         |                  |                |                                       |
| raymondville                                   | reach 1              | 106370           | 1382.00            | 17.13          | 27.35     | 20.05     | 27.40          | 0.000168             |              | 755.87           | 97.61          | 0.12                                  |
| raymondville<br>raymondville                   | reach 1<br>reach 1   | 108370           | 1940.00            | 17.13          | 28.37     | 20.67     | 28.45          | 0.000231             | 2.26         | 857.54           | 101.97         | 0.14                                  |
| raymondville<br>raymondville                   | reach 1              |                  |                    |                |           |           |                |                      |              |                  |                | · · · · · · · · · · · · · · · · · · · |

HEC\_DAS\_Plan-P\_25%\_3 (Continued)
River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chal Flow Area Top Width Froude # Chi (cta) (ft) (ft) (ft/ft) (ft/s) (aq ft) raymondville reach 1 105922 1382 00 17.08 27.27 19.99 27.32 0.000170 1.84 751.68 96.87 0.12 raymondville reach 1 105922. 1940.00 17.06 28.28 20.61 28.34 2.28 849.03 101.01 0.14 raymondville reach 1 105922 5581.00 17.06 31.32 23.68 31.66 0.000787 4.73 1179.15 115.54 0.26 raymondville reach i 105474. 861.00 16.99 581.11 25.39 19.22 25.43 0.000137 1.48 88.70 0.10 reach 1 105474. 1382.00 16,99 27.19 19.91 27.25 0.000171 1.85 747 69 96.15 0,12 raymondviile reach 1 105474 1940.00 16.99 28.14 20.54 28.22 0.000241 2.31 840.81 100.08 0.14 raymondville reach 1 105474. 5581.00 16.99 30.91 23,60 31.29 0.000875 4.92 1135.04 113.63 0.27 raymondville 105026. 861.00 16.91 25.33 19 14 25.36 0.000137 1.48 580.59 88.23 0.10 raymondville reach 1 1382.00 16.91 27.12 19.83 27.17 0.000172 1.86 744.63 95.49 0.12 raymondville 1940.00 105026 16.91 28.03 20.48 28.11 0.000248 2.33 833.61 99,21 0.14 reach t 105026 5581.00 16.91 1087.58 30.47 23.52 30.88 0.000959 5.13 109.18 0.29 raymondville reach 1 104578 861.00 16.84 25.27 19.07 25.30 0.000137 1,49 579.52 87.76 0.10 raymondville reach 1 104578 1382.00 18.84 27.04 19.76 27.09 0.000174 1.86 741.05 94.84 0.12 raymondy reach 1 104578 1940 00 16 64 27.92 825.97 20.39 28.00 0.000251 2.35 98.36 0.14 each 1 104578 raymondville 5581.00 16.84 29.96 23.45 30.41 0.001094 5.39 1035.63 108.54 0.30 reach 1 102128 861.00 16.43 24.94 24.97 0.000132 1 47 588 63 89.00 0.10 raymondville reach t 102128 1382.00 16.43 26.73 26.75 0.000109 1.32 1799.38 1091.37 0.09 raymondville reach 1 102128 1940.00 16.43 27.63 27.64 0.000087 1,29 2908.68 1366.37 0.08 29.57 raymondville reach 1 102128 5581.00 16.43 0.000128 1.82 7680.15 3391.29 0.11 raymondville reach 1 100615 661.00 16.19 653.66 24.76 18.41 24.79 0.000112 1.32 103.97 0.09 raymondville reach 1 100615 1382.00 16.19 28.58 19.08 26.60 0.000086 1.36 1715.80 999.60 0.08 reach 1 100615 1940.00 raymondville 16.19 27.50 19.70 27.52 0.000078 1.39 2962.54 1659.42 0.08 raymondville reach 1 100815 5581,00 16.19 29.39 22.60 29.42 0.000104 1.82 8208.27 3502.10 0.10 raymondvilla 100117 reach t 861.00 16.10 24.69 18.33 24.73 0.000127 1.45 594.10 88.42 0.10 raymondvill reach 1 100117 1382.00 16.10 26.52 19.02 26.55 0.000124 1.40 1553.75 890.63 0.10 аутопdville reach 1 100117 1940.00 16.10 27,45 19.65 27.47 0.000107 1 42 2505.56 1248.84 0.09 reach 1 raymondville 5581.00 16.10 29.34 22.71 29.36 0.000142 1.91 8815.72 5833.34 0.11 raymondville reach t 98117 881 00 15.78 24,45 0.000123 1.43 88.74 601.08 0.10 raymondville reach 1 98117 1382.00 15.78 26.40 26.41 0.000042 0.82 4340.50 3518.90 0.08 reach 1 98117 гаутопс 1940.00 15.78 27.38 27.38 0.000018 0.60 8120.82 4387.05 0.04 98117 reach 1 5581.00 raymondvill 15.78 29.28 29.28 0.000019 0.70 17627.24 5501.21 0.04 reach 1 98117 raymondville 861.00 15.45 24.21 24.24 0.000119 1 41 608 98 89.09 0.10 mach 1 96117 1382.00 15.45 26.24 26.27 0.000146 1.35 1740,39 1973.84 0.10 raymondville reach 1 96117 1940.00 15.45 27.32 27.33 0.000069 1.05 4426.89 3582.71 0.07 raymondville reach 1 96117 5581.00 15.45 29.23 29,23 0.000047 1.03 12720.04 5527.92 0.06 raymondville 861.00 15.32 24.14 24 1B 0.000093 1.19 115.89 0.08 raymondville reach 1 95341 1382.00 15.32 26,14 26.17 0.000109 1.31 1423.98 1381.98 0.09 raymondville 96341 15.32 reach 1 1940.00 27.25 27.27 0.000076 1 22 3498 15 3257 55 0.08 reach 1 95341 5581.00 15,32 29.18 29.19 0.000057 1,23 12071.49 5653.33 0.07 raymondville reach 1 94117 861.00 15.12 24.00 24.03 0.000113 1.39 619.84 89.56 0.09 94117 raymondville reach 1 1382.00 15.12 25.97 26.01 0.000154 1.56 1092.23 487,08 0.11 raymondvilk 94117 reach 1 1940.00 15.12 27.12 27.15 0.000124 1.56 2433.23 2026.57 0.10 raymondviik reach 1 94117 5581.00 15.12 29.06 29.08 0.000150 2.00 8142.26 5169.61 0.11 mach 1 92117 881 00 14.79 raym 23.79 17.02 23.82 0.000107 1.37 630.17 90.04 0.09 raymondville reach 1 92117 1382.00 14.79 25.64 17,71 25.68 0.000178 1.65 908.76 323.43 0.12 raymondville reach 1 92117 1940.00 14.79 26.82 18.34 26 R7 0.000182 1.77 1524.18 672.79 0.11 reach 1 raymondville 92117 5581.00 14.79 28.54 21.40 28.63 0.000360 3.02 3950.53 0.18 90057 raymondville reach 1 881.00 14.45 23.57 23.60 0.000102 1.34 641.46 90.54 0.09 each 1 00067 1382 00 14.45 raymondville 25.25 25.30 0.000198 1.70 880.99 443.65 0.12 raymondville 26.52 mach 1 90057 1940 00 14 45 26.55 0.000138 1.61 2307.31 2071.39 0.10 raymondville reach 1 90057 5581.00 14.45 28.13 28.16 0.000149 1.91 4846.01 8099.76 0.11 90018 861.00 raymondville reach 1 14.45 23.57 23.60 0.000102 1 34 541.10 90.52 0.09 raymondville 1382.00 14.45 25.25 25.29 0.000197 1,70 877.51 442.10 0.12 reach 1 90018 1940.00 raymondville 14.45 26.55 0.000139 1.62 2293.44 2069.40 0.11 raymondville reach t 90018 5581.00 14.45 2B.15 0.000151 1.92 4845.37 8067.64 0.11 88117 raymondviile reach 1 861.00 14.14 23,38 23.41 0.000097 1.32 652.09 91.01 0.09 88117 raymondvilk reach 1 1382.00 14.14 24.93 24.98 0.000141 1.73 797.93 97,21 0.11 reach 1 88117 1940.00 14.14 raymondville 26.23 26.27 0.000158 1.71 2457.84 4245.50 0.11 88117 5581.00 27.94 raymondville each 1 14.14 27.95 0.000080 1.40 10993.65 5610.39 0.08 raymondville each 1 86117 1373.00 13.81 23.01 23.08 0.000251 2.12 648.73 90.86 0.14 raymondville 24.49 reach 1 86117 2192 00 13 R1 24.38 0.000384 2.83 775.01 96.26 0.18 raymondville reach 1 86117 3161.00 13.81 25.72 18.53 25.78 0.000329 2.39 3135.89 3309.58 0.16 raymondville reach 1 86117 7345.00 13.81 27.78 27.79 0.000078 1.39 13718.07 6000.00 0.08 84790 raymondville reach 1 1373.00 13.59 22.67 22.74 91.75 0.000261 2.13 643.55 0.14 raymondvill<del>a</del> reach 1 84790 2192.00 13.59 23.82 23.95 0.000426 751.46 96.52 0.18 2.92 raymondville 24.98 reach 1 84790 3161.00 13.59 25.19 0.000589 3.65 0.22 raymondville reach 1 84790 7345.00 13.59 26.67 21.35 27.43 0.001843 2130.45 1217.29

DAS Plan: P.25% 3 (Continued) liver Reach River Sta Q Total Flow Area Min Ch El W.S. Elev Ont W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Froude # Chl (ft) (ft) **(ft)** (fVft) (sq ft) (ft) raymondville reach 1 RARDS R 1373 00 13 57 22.65 22.72 0.000265 2.13 645.33 93.85 0.14 0.000435 754.18 99.38 ach 1 PARCE R 2192 00 13.57 23 77 23 90 2.91 0.19 raymondvil 871.89 0.22 105.04 25.13 0.000602 raymondville mach i 84693.8 3161.00 13.57 24.92 3.63 2831.90 1363.28 0.40 raymondville 21.34 0.00189 6.94 reach 1 84893.8 7345.00 13.57 26.50 27.24 1373.00 13.56 22.62 22 65 0.000272 2 13 843 71 95 21 0 14 raymondville 84597,7\* 2192.00 13.56 23.73 23.86 0.000451 2.91 752.76 101.83 0.19 raymondville raymondville reach 1 84507.7\* 3161.00 13 56 24.86 25.08 0.000627 3.63 871.64 108.57 0.23 21.33 1558.03 3512.76 0.41 urh 1 84597.7° 7345.00 13.56 26.33 27.05 0.001953 6.88 raymondville 13.54 0.000277 640.31 95.19 0.15 reach 1 84501.5 1373.00 22.59 23.81 0.000489 2.93 748.27 103.41 0.19 84501.5 2192.00 13.54 23.6 raymondvilk raymondville 3161.00 24.79 24.99 0.000661 3 64 R67 51 111 78 0.23 13.54 raymondville 84501,5\* 7345.00 13.54 26.20 21.30 26,85 0.001927 8.67 1976.01 4307.10 0.40 0.15 0.000274 635.90 92.52 ..... 84405 4\* 1373.00 13.53 22.57 22.64 2.16 raymondville raymondville 0.000487 740.49 103.44 0.19 2192.00 13.53 23.63 23.77 2.96 reach 1 84405.4\* 858.00 114.46 0.24 naymondville 3161.00 13.53 24.71 0.000708 3.68 reach I 0.001540 5.85 2922.82 4335.12 0.36 raymondville 84405.4 7345.00 13.5 26.18 reach raymondville reach 1 84309.2\* 1373 00 13.51 22.54 22.61 0.000269 2.16 634.30 90,48 0.14 0.19 0.000481 99,40 raymondville reach 1 84309 21 2192 00 13.51 23.59 23.73 2.99 732.28 0.000756 aymondville 845.07 115.69 0.24 3161.00 24.64 24.8 3,74 reach 1 B4309.2 13.51 4352.82 0.31 raymondville 7345.00 13,51 26.16 26.44 0.001159 4.97 3872.64 each 1 B4309.2\* 1373.00 raymondville each 1 84213.1\* 13.50 22 51 22 59 0.000271 2 17 632 30 90.28 0.14 reymondville ach 1 84213.1\* 2192 00 13.50 23 54 23.6 0.000462 3.01 727.23 94,41 0.19 111,53 each 1 84213.1\* 3161.00 13.50 24.58 24.7 0.000772 3.81 828.60 0.25 raymondvilk 0.000959 5434.52 0.28 raymondville 7345.00 13.50 26.13 26.3 4,40 reach 1 84213.1\* 13,48 22.49 84117 1373.00 22.5 0.000272 2.18 B31 06 90 08 0.14 raymondville reach 1 raymondville reach 1 84117 2192.00 13,48 23.50 23.64 0.000467 3.03 723.93 94,11 0.19 each 1 94117 3161 00 13.48 24 49 24.72 0.000683 3.88 819.00 98.07 0.24 raymondville 0.24 raymondville 3.73 5774.11 6000.00 each 1 84117 7345.00 13.48 26.10 26.21 0.000727 22.42 90.46 0.15 83817 1373.00 13.40 22.3 0.000282 2.20 624.84 raymondville reach 1 raymondville 83617.\* 2192.00 13.40 23.25 23.40 0.000503 3.09 708 38 94 58 0.20 reach 1 83617. 3161.00 13.40 24.06 24.29 0.001067 3.94 871.78 547.45 0.28 each 1 raymondville 7345.00 25.72 25.8 0.000726 3.82 5273 55 4437.20 0.24 raymondville 13.40 reach 1 619.98 91.88 0.15 raymondville reach f B3117. 1373.00 13.31 22.19 22.23 0.000295 2.21 23.10 0.000716 3.06 789.67 428.41 0.23 raymondville 13.31 22.96 reach 1 R3117. 2192.00 13.31 23.58 23.7 0.000928 3.74 1173.98 892.1 0.26 raymondville 3161.00 reach 1 83117 0.000738 3.94 4920.65 4416.6 0.25 83117. 13.31 25.35 25.49 7345.00 raymandville each 1 793.36 509.16 0.16 raymondville 82617." 1373.00 13 23 22 04 22.10 0.000355 2.07 reach raymondville 1174.06 650.49 0.19 reach 1 82617. 2192.00 13.23 22.70 22.79 0.000499 2.66 23.39 3.17 1691.47 0.22 raymondville 3161.00 0.000628 reach 1 82617. 13.23 23.26 25.1 0.000683 4648.21 4411.05 0.24 raymondville 25,00 7345.00 13.23 reach 1 82617. 646.86 1373.00 13.15 21.93 21 9 0.00019 1.63 1272.37 0.12 reymondville 82117 1064.42 0.15 2192.00 13.15 22.54 22.59 0.000293 2.13 1808.42 raymondville each 1 82117 raymondville 2381.52 1339.66 0.17 23.12 0.000384 each 1 82117 3161.00 13 15 23.09 2.57 5446.36 2277.02 0.18 24.86 0.000393 3.03 raymondville 82117 7345.00 13.15 24.79 21.70 21 71 0.000084 0.98 3371.05 3096.58 0.08 1373.00 12.82 80117 reach 1 raymondville 2192.00 22.31 22 32 0.000074 0.99 5532.56 4007.95 0.07 raymondville 80117 12.82 reach 1 80117 4113.06 raymondville 3161.00 12.62 22.84 22.85 0.000063 0.97 7688.81 0.07 0.000041 17186.96 5896.45 0.06 each 1 80117 7345.00 12 82 24.65 24.65 0.94 raymondville 614 44 89.34 0.15 12.71 21.53 21.61 0.00029 raymondville reach 1 79415 1373.00 2192.00 12.71 22.01 22.19 0.000615 3.33 657.94 91.27 0.22 79415 raymondville reach 1 3161.00 12.71 22 38 22 70 0.001108 4 57 691.54 92.73 0.29 raymondvilk 7345.00 12.71 22.85 20.48 24.40 0.005010 9.99 735.60 94.61 0.63 each 1 78415 raymondville 21.39 3427.38 4035.47 0.08 1373.00 raymondville 12.50 21.38 ach 1 78117 21.92 0.000074 1.04 5606.71 4088 33 0.07 12.50 21.92 2192.00 raymondville reach 1 78117 22.37 22.37 0.000072 1 08 7835.45 4624.57 0.07 3161.00 12.50 78117 raymondville reach 1 7345.00 12.50 23.63 23.63 0.000073 1.23 14218.91 5831.78 0.08 78117 raymondville reach 1 4673.20 4195.73 0.00 0.000048 0.80 raymondville reach 1 78117 1373.00 12.17 21.26 21.27 4250.27 0.06 0.79 7020.72 21.82 21.82 0.000041 raymondville reach 1 78117 2192.00 12.17 0.85 9028 97 4687.69 0.06 22.26 22.27 0.000044 raymondville 3161.00 12.17 reach 1 78117 0.000056 1.07 15541.57 6000.00 0.07 raymondville 7345.00 23.50 23.5 12.17 reach 1 76117 4231.92 0.06 1373.00 11.86 21.17 21 18 0.000048 0.80 4484.59 74240 raymondville reach 1 4301.93 0.06 74240 6908.83 2192.00 11.86 21.74 21.74 0.000041 0.79 raymondviile reach 1 4853.80 0.06 raymondville 0.000045 0.86 8902.65 22.18 reach 1 74240 3161.00 11.8€ 22.18 6000,00 0.07 23.41 0.000056 1.08 15327.7 11.8 raymondville each 1 74240 7345.00 23.40 21.17 0.000048 0.80 4460.98 4231.17 0.06 74117 1373.00 11.84 21.16 raymondville reach 1 0.06 74117 2192.00 11.84 21.73 21.74 0.000041 0.80 6888.47 4301.29 reach 1 raymondville

HEC DAS Plan: P.25% 3 (Continued)

| HEC-DAS           | Plan: P. 25%                          | 3/Contin      | med)    |           |           |           |           |            |          |                  |                |              |
|-------------------|---------------------------------------|---------------|---------|-----------|-----------|-----------|-----------|------------|----------|------------------|----------------|--------------|
| River             | Reach                                 | River Sta     | Q Total | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area        | Top Width      | Froude # Chl |
|                   | 10,000,000                            |               | (cfs)   | (ft)      | (ft)      | (ft)      | (R)       | (ft/ft)    | (tt/s)   | (sq ft)          | (ft)           | 141736       |
| raymondville      | reach 1                               | 74117         | 3161.00 | 11.84     | 22.17     |           | 22.18     | 0.000045   | 0.87     | 8877.47          | 4853.11        | 0.06         |
| raymondville      | reach 1                               | 74117         | 7345.00 | 11.84     | 23.39     |           | 23.40     | 0.000057   | 1.09     | 15287.51         | 6000.00        | 0.07         |
|                   | 3.40 M D D D D D                      |               |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 71592         | 1373.00 | 11.42     | 21.07     |           | 21.07     | 0.000049   | 0.83     | 4473.89          | 4151.08        | 0.06         |
| raymondville      | reach 1                               | 71592         | 2192.00 | 11.42     | 21.65     |           | 21.66     | 0.000041   | 0.80     | 6926.68          | 4208.72        | 0.06         |
| raymondville      | reach 1                               | 71592         | 3161.00 | 11.42     | 22.09     |           | 22.09     | 0.000048   | 0.89     | 8793.37          | 4845.21        | 0.06         |
| raymondville      | reach 1                               | 71592         | 7345.00 | 11.42     | 23.28     |           | 23.29     | 0.000062   | 1.15     | 14748.49         | 6000.00        | 0.07         |
| 4.100.5139        | 2010 TENESTICS                        | 100           |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 69075         | 1523.00 | 11.01     | 20.90     |           | 20.91     | 0.000084   | 1.09     | 3595.95          | 3352.20        | 0.08         |
| raymondville      | reach 1                               | 69075         | 2334.00 | 11.01     | 21.53     |           | 21.53     | 0.000058   | 0.96     | 6503.87          | 4919.52        | 0.07         |
| raymondville      | reach 1                               | 69075         | 3400.00 | 11.01     | 21.95     |           | 21.96     | 0.000059   | 1.02     | 8597.86          | 4972.29        | 0.07         |
| raymondville      | reach 1                               | 89075         | 8259.00 | 11.01     | 23.10     |           | 23.11     | 0.000074   | 1.28     | 15473.67         | 6000.00        | 0.08         |
|                   | (1) 在新城市 <b>9</b> 00                  | ×4.00         |         |           |           |           |           |            |          | -                |                |              |
| raymondville      | reach 1                               | 96802         | 1523.00 | 10.64     | 20.67     |           | 20.68     | 0.000103   | 1.20     | 3488.06          | 4275.29        | 0.09         |
| raymondville      | reach 1                               | 96802         | 2334.00 | 10.64     | 21.39     |           | 21.39     | 0.000055   | 0.94     | 6915.05          | 5141.71        | 0.06         |
| raymondville      | reach 1                               | 86802         | 3400.00 | 10.64     | 21.81     |           | 21.82     | 0.000055   | 0.99     | 9100.19          | 5182,89        | 0.07         |
| raymondville      | reach 1                               | 86802         | 8259.00 | 10.64     | 22.92     |           | 22.93     | 0.000074   | 1.26     | 15607.11         | 6000.00        | 0.08         |
| 200.00 000000     | 5 72 - 17 88-19:073                   | 14 2 M 17 P   |         |           |           |           |           | 0.000014   | 1.20     | 13007,77         | 0000,00        | 0.00         |
| raymondville      | reach 1                               | 84902         | 1523.00 | 10.31     | 20.38     |           | 20.39     | 0.000208   | 1.67     | 2082.80          | 3884.10        | 0.40         |
| raymondville      | reach 1                               | 64802         | 2334.00 | 10.31     | 21.25     |           | 21.28     | 0.000200   | 1.12     | 5957.07          |                | 0.12         |
| raymondville      | reach 1                               | 64802         | 3400.00 | 10.31     | 21.68     |           | 21.68     | 0.000077   | 1.13     |                  | 5435.72        | 0.08         |
| raymondville      | reach 1                               | 84802         | 8259.00 | 10.31     | 22.75     |           |           |            |          | 8266.24          | 5477.19        | 0.08         |
|                   | 10 No. 300                            |               | 0238,00 | 10.31     | 22.75     |           | 22.76     | 0.000091   | 1.40     | 14541.25         | 6000.00        | 0.09         |
| raymondville      | reach:1                               | 82802         | 1523.00 | 9.98      | 40.00     |           |           | 0.00000    |          |                  |                |              |
| raymondville      | reach 1                               | 62802         | 2334.00 | 9.98      | 19.88     |           | 19.95     | 0.000236   | 2.14     | 713,05           | 93.65          | 0.14         |
| raymondville      | reach 1                               | 62802         |         |           | 21.10     | +         | 21.11     | 0.000077   | 1.13     | 6248.46          | 6000.00        | 0.08         |
| raymondville      |                                       |               | 3400.00 | 9.98      | 21.54     |           | 21.54     | 0.000067   | 1.09     | 8885,24          | 6000.00        | 0.07         |
| THEFT             | reach 1                               | 62802         | 8259.00 | 9.98      | 22.58     |           | 22.58     | 0.000083   | 1.34     | 15118.68         | 5000.00        | 0.08         |
| raymondville      |                                       | F4400         | 4500.50 |           |           |           |           |            |          |                  |                |              |
|                   | reach 1                               | 61180         | 1523.00 | 9.65      | 19.39     |           | 19.46     | 0.000251   | 2.18     | 697.68           | 92.98          | 0.14         |
| raymondville      | reach 1                               | 61180         | 2334.00 | 9.65      | 20.73     |           | 20.82     | 0.000301   | 2.57     | 1622.71          | 2281.54        | 0.16         |
| raymondville      | reach 1                               | 81180         | 3400.00 | 9.65      | 21.16     |           | 21.25     | 0.000478   | 2.75     | 2885.33          | 3500.33        | 0.19         |
| raymondville      | reach 1                               | 81180         | 8259.00 | 9.65      | 22.21     |           | 22.28     | 0.000418   | 2.84     | 8107.61          | 6000.00        | 0.18         |
|                   | n etti ile opratis in                 |               |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 61130         | 1523.00 | 9.64      | 19,37     |           | 19.45     | 0.000251   | 2.18     | 697.44           | 92.97          | 0.14         |
| raymondville      | reach 1                               | 81130         | 2334.00 | 9.64      | 20.72     |           | 20.82     | 0.000302   | 2.58     | 1605.85          | 2258.01        | 0.18         |
| raymondville      | reach 1                               | 61130         | 3400.00 | 9.64      | 21.15     |           | 21.23     | 0.000494   | 2.79     | 2822.12          | 3445.04        | 0.19         |
| raymondville      | reach 1                               | 61130         | 8259.00 | 9.64      | 22.18     |           | 22.23     | 0.000441   | 2.91     | 7922.05          | 6000.00        | 0.19         |
| 1 1 2 2 7 1 1 1 1 | 10:10:1:1:1                           | 1 + 10, 111   |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 60777         | 1523.00 | 9.58      | 19.28     |           | 19.38     | 0.000254   | 2.19     | 694.70           | 92.88          | 0.14         |
| raymondville      | reach 1                               | 60777         | 2334.00 | 9.58      | 20.71     |           | 20.73     | 0.000126   | 1.42     | 5045.78          | 6000.00        | 0.10         |
| raymondville      | reach 1                               | 50777         | 3400.00 | 9.58      | 21.13     |           | 21.14     | 0.000104   | 1.34     | 7527.90          | 6000.00        | 0.09         |
| raymondvítle      | reach 1                               | 60777         | 8259.00 | 9.58      | 22.14     |           | 22.15     | 0.000116   | 1.55     | 13574.23         | 6000.00        | 0,10         |
| 1 2 Q. S. S. S.   |                                       | 10 to 11 at   |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 58786         | 1523.00 | 9.26      | 18.75     |           | 18.83     | 0.000276   | 2.28     | 675.18           | 92.02          | 0.15         |
| raymondville      | reach 1                               | 58786         | 2334.00 | 9.26      | 20.22     |           | 20.30     | 0.000421   | 2.50     | 2085.83          | 6000.00        |              |
| raymondville      | reach 1                               | 58786         | 3400.00 | 9.26      | 20.84     |           | 20.88     | 0.000188   | 1.78     | 5832.95          | 6000.00        | 0.12         |
| raymondville      | reach 1                               | 58786         | 8259.00 | 9.26      | 21.65     |           | 21.87     | 0.000168   | 1.85     | 11920.62         | 6000.00        | 0.12         |
| Ngarit, William   | 0 - 10 - 10 Sec. 2007                 |               |         |           |           | -         |           |            |          |                  | 5555,65        |              |
| raymondville      | reach 1                               | 58898         | 1523.00 | 8,92      | 18.14     |           | 18.22     | 0.000307   | 2.34     | 650.24           | 90.93          | 0.15         |
| raymondville      | reach 1                               | 58696         | 2334.00 | 8.92      | 19.21     |           | 19.38     | 0.000478   | 3.11     | 750.11           | 95.22          | 0.20         |
| raymondville      | reach 1                               | 56898         | 3400.00 | 8.92      | 19.86     | 13.85     | 20,13     | 0.000808   | 4.18     | 812.53           | 97.81          | 0.26         |
| raymondville      | reach 1                               | 56696         | 8259.00 | 8.92      | 21.26     | - 10.00   | 21.32     | 0,000449   | 2.92     | 8322.45          | 6000.00        |              |
|                   |                                       | 1             | 0230.50 | 0.02      | 21.20     |           | 21.02     | 0.000-10   |          | WZZ.43           | 0000.00        | 0.19         |
| raymondville      | reach 1                               | 58844         | 1523.00 | 8.91      | 18.12     |           | 18.21     | 0.000308   | 2.34     | 640.60           | 00.00          | 0.45         |
| raymondville      | reach 1                               | 56844         | 2334.00 | 8.91      | 19.19     |           | 19.34     | 0.000308   | 3.12     | 549.68           | 90.90          | 0.15         |
| raymondville      | reach 1                               | 50844         | 3400.00 | 8.91      | 19.19     |           | 20.10     | 0.000481   | 4.20     | 748.61<br>810.05 | 95.16<br>97.71 | 0.20         |
|                   | reach 1                               | ****          |         |           |           |           |           |            |          |                  | -              | 0.26         |
| TAYTED TOVERS     | (Part)                                | 50044         | 8259.00 | 8.91      | 21.24     |           | 21.29     | 0.000474   | 2.99     | 8149.25          | 6000.00        | 0.19         |
| raymondville      | reach 1                               | 56168.2*      | 1523.00 | 8.83      | 17.97     |           | 40.00     | 0.000317   | 0.07     |                  |                |              |
| raymondville      | reach 1                               | 56166.2"      | 2334.00 | 8.83      |           |           | 18.08     |            | 2.37     | 643.23           | 90.61          | 0.16         |
| raymondville      | reach 1                               | 58188.2*      | 3400.00 |           |           |           | 19.11     | 0.000421   | 2.90     | 1226.49          | 1013.74        |              |
| raymondville      | reach 1                               |               |         | 8.83      |           |           | 19.75     |            | 3.28     | 2000.06          | 1344.47        | 0.20         |
| - ANNION KIVER    | potent i                              | 56166.2*      | 8259.00 | 8.83      | 21.04     |           | 21.08     | 0.000392   | 2.70     | 8591.92          | 6000.00        | 0.18         |
| raymondville      | and a                                 | 55.52         | 4500.55 |           |           |           | 1.5       | -          |          |                  |                |              |
|                   | reach 1                               | 55688.5*      | 1523.00 | 8.75      |           |           | 17.93     |            | 1.82     | 1531.29          | 997.35         |              |
| raymondville      | reach 1                               | 55688.5*      | 2334.00 | 8.75      |           |           | 18.98     |            | 1.73     |                  |                |              |
| raymondville      | reach 1                               | 55688.5*      | 3400.00 | 8.75      |           |           | 19.59     |            | 1.94     | 3688.78          | 2856.91        |              |
| raymondville      | reach 1                               | 55688.5°      | 8259.00 | 8.75      | 20.90     |           | 20.93     | 0.000251   | 2.15     | 9446.30          | 5566.84        | 0.14         |
|                   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |               |         |           | ļ.—       |           |           |            |          | <b></b>          |                |              |
| raymondville      | reach 1                               | 55210.7°      | 1523.00 | 8.67      | 17.87     |           | 17.88     |            | 1.02     | 3038.78          |                |              |
| raymondville      | reach 1                               | 55210.7       | 2334.00 | 8.67      |           |           | 18.94     | 0.000050   | 1.00     |                  | 1346.39        |              |
| raymondville      | reach 1                               | 55210,7*      | 3400.00 | 8,67      |           |           | 19.54     | 0.000066   | 1.19     |                  | 3313.50        |              |
| raymondville      | reach 1                               | 55210.7*      | 8259.00 | 8.67      | 20.82     |           | 20.83     | 0.000148   | 1.65     | 11063.88         | 4720.68        | 0.11         |
|                   | 1 1 1 7 7 1 1 1 2 2                   | Tage 11 A. C. |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 54739         | 1595.00 | 8.59      |           | 11.78     | 17.80     |            | 2.49     |                  |                |              |
| raymondville      | reach 1                               | 54793         | 2441.00 | 8.59      | 18.70     | 12.65     | 18.87     | 0.000580   | 3.33     | 732.66           | 94,48          | 0.21         |
| raymondville      | reach t                               | 54733         | 3554.00 | 8.59      | 19.09     | 13.65     | 19.42     | 0.001028   | 4.61     | 770.18           | 96.06          | 0.29         |
| raymondville      | reach 1                               | 54733         | 8653.00 | 8.59      | 20.46     | 17.13     | 20.65     | 0.001322   | 4.83     | 4853.99          | 4363.83        | 0.32         |
|                   |                                       | (44)          |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 54238.*       | 1595.00 | 8.51      | 17.52     |           | 17.62     | 0.000372   | 2.52     | 633.08           | 148.41         | 0.17         |
| raymondville      | reach 1                               | 54238.*       | 2441.00 | 8.51      |           |           | 18.58     |            |          |                  |                |              |
| raymondville      | reach 1                               | 54238.*       | 3554.00 | 8.51      |           |           | 18.95     |            |          | 2320.09          | 2081.97        |              |
| raymondville      | reach 1                               | 54238.*       | 8653.00 | 8.51      |           |           | 20.12     |            |          |                  |                |              |
|                   | 1 199                                 |               |         |           |           |           |           | 1          |          |                  |                |              |
|                   |                                       |               |         |           |           |           |           |            |          |                  |                |              |

HEC DAS Plan P 25% 3 (Continued) River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Flow Area E.G. Slope Vel Chnl. Top Width Froude # Chi (cls) (h) (ft) (ft) (fVft) (ft/a) (aq ft) (ft) raymondville 53743. reach 1 1595,00 8.43 17 45 17.4 0.000193 1.57 2027.16 1689.74 0.12 raymondville reach 1 53743. 2441.00 B 43 18.44 18.45 0.000114 1.35 3963.37 2181,47 0.09 raymondvilla 3554.00 8.43 18.76 18 78 0.000162 1.66 4686.39 2307.36 0.11 each i 59743. 8653.00 8.43 19.82 19.86 0.000321 2809.45 0.16 raymondville reach t 5324R ' 1595.00 8,35 17.43 17.44 0.000040 0.77 4375.88 2114.45 0.05 raymondville reach 1 53248.\* 2441.00 8.35 18.43 18.43 0.000031 0.76 6615.57 2382 20 0.05 raymondville reach 1 53248. 3554 00 8.35 18.74 18.74 0.000049 0.98 7360.59 2462.37 0.06 raymondville each 1 53248. 8653.00 8.35 19.74 19.76 0.000134 1.75 10105.43 2910,26 0.11 raymondville woh i 52753 1374.00 8,27 17.42 17 42 0.000008 0.38 7001.45 2285.26 0.03 raymondville reach 1 52753 2022.00 8.27 18.42 18.42 0.000008 0.42 9437,44 2644.55 0.03 raymondville reach 1 52753 3078.00 8.27 18,72 18.73 0.000015 0.58 10262 22 2734.27 0.04 raymondville reach 1 52753 8064.00 8.27 19.71 19.72 0.000055 1.18 13098.82 3021.44 0.07 raymondville 52344.3 1374.00 8.20 17 41 17.41 0.000014 0.46 5838.59 2280.46 0.03 raymondville 2022.00 8.20 18 41 18 41 0.000012 0.48 8359.45 2669.85 0.03 unch 1 52344.3 3078.00 8.20 18.71 18.72 0.000022 0.66 9189.18 2757.25 0.04 raymondvilla reach 1 50944 31 8.20 19.68 19.69 0.000072 1.30 11989 17 3055.42 0.08 17.39 reach 1 51935.7 1374 00 B.13 17.40 0.000024 0.57 4836.44 2287.74 0.04 raymondville reach 1 18,40 51935.7\* 2022.00 8.13 18.40 0.000017 0.54 7312.97 2651.04 0.04 raymondville ech 1 51935.7 3078.00 8.13 18 69 18.70 0.000030 0.74 B115.23 2745.94 0.05 raymondville 51935.7\* 8064.00 8.13 19.64 19.65 0.000097 1.43 10851.69 3083.04 0.09 raymondville reach 1 51527 1\* 1374 00 8.07 17.38 0.000035 0.64 4129 82 1896 37 0.05 raymondville reach 1 51527.1\* 2022.00 8.07 18.39 18.39 0.000024 0.60 8332.95 2506.81 0.04 raymondville reach 1 51527.1\* 3078.00 8.07 18.68 18.68 0.000042 7078.40 0.81 2654.63 0.06 raymondville reach 1 51527.1\* 8064.00 8.07 19.58 19.59 0.000132 1.59 9681.03 3105.94 0.10 raymondville nach 1 51118,5 1374.00 17.37 8.00 17.37 0.000027 0.69 4095.15 1581.43 0.05 raymondville reach 1 51118.5 2022.00 8.00 18.36 18.38 0.000024 0.69 5834.30 1826.38 0.04 raymondville reach 1 511185 3078.00 8.00 18.66 18,68 0.000044 0.95 6354.22 1889.99 0.06 raymondville reach 1 51118.5 8084,00 8.00 19.51 19.53 0.000175 8498.56 1.71 3006.49 0.12 raymondville each 1 1374.00 50710 7.93 17.27 10.84 17.33 0.000239 2.08 660,86 91.39 0.14 raymondville each 1 50710 2022.00 7.93 18.22 11.57 18.33 0.000359 2.70 750.06 95.22 0.17 raymondville mach 1 50710 3078.00 7.93 18.34 12.60 18.59 0.000798 4.04 761 02 95.68 0.25 raymondville reach 1 50710 8064.00 7.93 19.44 16.12 19.46 0.000166 1.96 7973.44 2103.47 0.12 raymondville reach f 50308.01 1374.00 7.86 17.16 10.77 17.23 0.000242 657.73 2.09 91.25 0.14 each 1 raymondville 50308.01 2022.00 7.86 18 07 11.50 18.18 0.000370 741.98 2.73 94.87 0.17 raymondville reach 1 50308.0 3078.00 7.86 18.46 12.53 18.47 0.000048 6207.24 1924.41 0.06 raymondväle 50308.0 each 1 8064.00 7.86 19.37 16.05 19.39 0.000165 8062.63 2133.55 0.12 raymondville each 1 49906.0\* 1374.0 7.60 17.06 17.13 10.71 0.000246 2.10 653.88 91.08 0.14 raymondville reach 1 49906.0\* 2022.00 7.80 17.90 11.44 18,02 0.000385 2.76 732.16 94.46 0.17 raymondville each 1 49906.0\* 3078 00 7.80 16.44 12.47 18.45 0.000046 6363.93 0.98 1995.82 0.06 raymondville ach 1 49906.0\* 8064.00 7.80 19.30 15.99 19.32 0.000167 1.96 8172.46 2237.54 0.12 each 1 raymondville 49504.0\* 1374.00 7.73 16.96 10.64 17.03 0.000249 2 11 650 77 90.95 0.14 raymondville mach t 49504.0\* 2022.00 7.73 17.74 11.37 17.86 0.000399 2.80 723.15 94.08 0.18 raymondville reach 1 49504.0\* 3078.00 7.73 18.42 12,40 18,43 0.00004 6344.53 0.94 2052.70 0.06 raymondville reach 1 49504 0\* 8064 00 7.73 19.23 15,92 19.26 0.000170 B331.04 1.97 2395.84 0.12 raymondville reach 1 49102.01 1374.00 7.67 647.03 16.85 10.5B 16.92 0.000254 2.12 0.14 raymondville reach 1 49102.0\* 2022.00 7.67 17.56 11.31 17.69 0.000416 2.84 712.61 93.64 0.18 raymondville reach 1 49102.0 3078.00 7.67 18.32 12,34 18.39 0.000294 2.49 2227,20 2151.98 0.15 raymondville reach 1 49102.0 8064.00 7.67 19.17 15.86 19.18 0.000177 1,66 8512,70 2495.93 0.12 raymondville reach 1 48700 1374.00 7.60 16.75 10.51 16.82 0.000257 2.13 643,86 90.65 0.14 raymondville reach 1 48700 2022.00 7.60 17.39 11.24 17.52 0.000433 2.88 702.70 93.2 0.18 raymondville 48700 3078.00 7.60 17.92 12.27 18.18 0.000822 4 09 753 17 95.35 0.26 raymondville reach 1 48700 8064.00 7.60 19.10 15.79 19.11 0.000167 1.62 8700.23 2509.42 0.11 raymondville reach 1 ARSIE E 1374.00 7.57 16.70 10.48 16.77 0.00025 642.13 2.14 90.58 0.14 raymondville reach 1 48516.6 2022.00 7.57 17.30 11.21 17.43 0.000442 2.90 697.43 92.99 0.19 raymondville reach 1 48516.6 3078.00 7.57 17.75 12.24 18.02 0.000866 739 87 4.16 94.79 0.26 raymondville 48516,6 8064.00 7.57 19.07 15.76 19.08 0.000169 1.65 8718.66 2564.64 0.11 raymondville nach 1 48333,3 1374.00 7.54 16.65 10.45 16.72 0.000261 640.37 2.15 90.50 0.14 raymondville reach 1 48333 3 2022.00 7.54 17.22 11.18 17.35 0.000452 692.15 2.92 92.76 0.19 raymondville reach 1 48333 3 3078 00 7.54 17.57 17.85 0.000917 724.95 4.25 94.16 0.27 raymondville reach 1 48333.31 8064.00 7.54 19.04 15.73 19.05 0.000174 1.72 8833.89 0.12 2921.27 raymondville reach 1 48150 1374.00 7.51 16.60 10.42 16.68 0.000263 2.15 638 R9 90.43 0.14 raymondville reach 1 48150 2022.00 7.51 17.13 17.27 11.15 0.000463 2.94 687.15 92 55 0.19 raymondville reach 1 48150 3078.00 7.51 17.38 17.68 12.18 0.000972 4.33 710.62 93.55 0.28 raymondville reach 1 48150 8064.00 7.5 19.0 15.70 19.02 0.000170 1.73 9117.12 3192.52 0.12 raymondville reach t 7 43 47686 1374.00 16 47 10.34 16.55 0.000271 91.10 2.16 0.14 reach t raymondville 47686 2022.00 7.43 16.86 11 07 17.00 0.000730 2 99 676.46 2252.92 0.23 47686 3078.00 7.43 17.42 12.10 17.43 0.000151 1.45 4576.61 2375.44 0.11

HEC DAS Plan. P 25% 3 (Continued)

| HEC DAS  | Plan: P 25%   |   |  |  | ····   |                               |  | <del></del>  |  |   |  |  |
|--|---|---|--|--|--|-------------------------------|--|--|--|---|--|--|
| UlAbl  | Reach   | River Sta   | O Total  | Min Ch El  | W.S. Elev  | Crit W.S.                     | E.G. Elev  | E.G. Slope   | Vel Chril  | Flow Area   | Top Width  | Froude # Chi   |
| raymondville   | mant 1  | 47000 +   | (cfs)  | (ft).  | (ft)   | (ft)                          | (ft)   | (ft/ft)  | (fl/a)   | (8g ft)   | (ft)   | and the second   |
| TO THE RIVER   | reach 1   | 47886.*   | 8064.00  | 7.43   | 18.89  | 15.62                         | 18.91  | 0.000197   | 1.92   | 8758.99   | 3504.06  | 0.13   |
| recember 4.20.   |   |   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 47222.*   | 1374.00  | 7.38   | 16.33  | 10.27                         | 16.40  | 0.000381   | 2.13   | 646.44  | 1926.56  | 0.16   |
| raymondville   | reach 1   | 47222.*   | 2022.00  | 7.36   | 16.79  | 11.00                         | 16,81  | 0.000164   | 1.47   | 3037.29   | 2111.18  | D.11   |
| raymondville   | reach 1   | 47222.*   | 3078.00  | 7.36   | 17.31  | 12.03                         | 17.33  | 0.000177   | 1.62   | 4253.07   | 2549.21  | 0.12   |
| raymendville   | reach 1   | A7222.  | 8064.00  | 7.36   | 18.77  | 18.21                         | 18.79  | 0.000213   | 2.05   | 8671.09   | 3762.05  | 0.13   |
|  | 11.20.30 St. 10.34  | 2 G S , 2" + 1, 1   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 40758.  | 1374.00  | 7.28   | 16.28  | 10.20                         | 16.29  | 0.000104   | 1.16   | 2273.95   | 1374.91  | 0.09   |
| raymondville   | reach 1   | 46758.*   | 2022.00  | 7.28   | 16.72  | 10.92                         | 16.74  | 0.000129   | 1.35   | 2994.68   | 1895.77  | 0.10   |
| raymondville   | reach 1   | 46756.*   | 3078.00  | 7.28   | 17.20  | 11.95                         | 17.23  | 0.000186   | 1.72   | 4090.77   | 2492.30  | 0.12   |
| raymondville   | reach f   | 46756.*   | 8064.00  | 7.28   | 18.65  | 16.02                         | 18.68  | 0.000215   | 2.11   | 8769.38   | 3737.13  | 0.13   |
| A see Seeding 1991   | Light Application is the  | Brent In  |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 48294.*   | 1374.00  | 7.21   | 18.24  | 10.12                         | 16.25  | 0.000087   | 0.97   | 2744.92   | 1541.02  | 0.07   |
| raymondville   | reach 1   | 48294."   | 2022.00  | 7.21   | 16.67  | 10.85                         | 16,69  | 0.000090   | 1.18   | 3448,80   | 1804.01  | 0.08   |
| raymondville   | reach 1   | 46294.*   | 3078,00  | 7.21   | 17.14  | 11.88                         | 17.15  | 0.000123   | 1.44   | 4421.92   | 2287.05  | 0.10   |
| raymondville   | reacht 1.0/A.c.   | 46294."   | 8084.00  | 7.21   | 18.54  | 15.51                         | 18.57  | 0.000211   | 2.14   | 8969.55   | 3785.08  | 0.13   |
|  |   | Company of  |  |  |  |                               |  |  |  |   | 0700.00  | 0.13   |
| raymondville   | reach 1   | 45830   | 1374.00  | 7.13   | 16.22  | 10.04                         | 18.23  | 0.000040   | 0.78   | 3454.52   | 1847.36  | 0.05   |
| raymondville   | reach 1   | 45830   | 2022.00  | 7.13   | 16.64  | 10.77                         | 16.65  | 0.000057   | 0.97   | 4258.89   | 1999.72  |  |
| raymondville   | reach 1   | 45830   | 3078.00  | 7.13   | 17.09  | 11.80                         | 17.10  | 0.000085   | 1.24   | 5195.19   |  | 0.07   |
| raymondville   | reach 1   | 45830   | 8064.00  | 7.13   | 18.45  | 15.00                         | 18.47  | 0.000194   | 2.11   |   | 2379.62  | 0.08   |
| Dept. Her  | Jan Bayner  | Sec. 1  | 33333  | 7.10   | 10.43  | 15.55                         | 10.47  | 0.000194   | 2.111  | 9259.45   | 3723.64  | 0.13   |
| raymondville   | reach 1   | 45414.*   | 1374.00  | 7.06   | 16.20  | 9.97                          | 16.21  | 0.000041   | 0.80   | 0400 0  | 100  |  |
| raymondville   | reach 1   | 45414."   | 2022.00  | 7.06   | 16.61  | 10.70                         | 16.62  | 0.000041   |  | 3438.62   | 1905.25  | 0.06   |
| raymondville   | reach 1   | 45414."   | 3078.00  | 7.06   |  | 11.73                         |  |  | 0.99   | 4264.67   | 2081.22  | 0.07   |
| raymondville   | reach 1   | 45414.*   | 8064.00  | 7.06   | 17.05  | 15.00                         | 17.08  | 0.000085   | 1.25   | 5194.08   | 2278.33  | 0.08   |
|  | 200   |   | 3004.00  | 7.06   | 18.38  | 15.00                         | 18.40  | 0.000180   | 2.03   | 9546,92   | 3778.25  | 0.12   |
| raymondville   | reach 1   | 44996."   | 1374.00  | 2.00   | 10.10  |                               | ,,,,   |  |  |   |  |  |
| raymondville   | reach 1   | 44996.*   | 2022.00  | 6.99   | 16.18  | 9.90                          | 16.19  | 0.000045   | 0.83   | 3451.32   | 2021.94  | 0.08   |
| raymondville   | reacht 1  | 44996.*   |  | 6.99   | 16.58  | 10.63                         | 16.59  | 0.000060   | 1.00   | 4287.30   | 2118.54  | 0.07   |
| raymondville   | reach 1   | 44998."   | 3078.00<br>8064.00   | 6.99   | 17.01  | 11.66                         | 17.03  | 0.000095   | 1.32   | 5293.49   | 2711.20  | 0.09   |
| TOYTHOTOTHE  | (COLIT  | 44666.  | 8084.00  | 6.99   | 18.31  | 15.00                         | 18.33  | 0.000169   | 1.98   | 9892.28   | 4200.87  | 0.12   |
| raymondville   | reach 1   | 44880 0   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   |   | 44582   | 1374.00  | 6.93   | 16.15  | 9.84                          | 18.18  |  | 0.85   | 3471.22   | 2095.31  | 0.06   |
| raymondville   | reach 1   | 44582.*   | 2022.00  | 6.93   | 18.55  | 10.57                         | 16.58  | 0.000072   | 1.10   | 4402.20   | 2697.20  | 0.07   |
|  | reach 1   | 44582.*   | 3078.00  | 6.93   | 16.98  | 11.60                         | 16.99  | 0.000094   | 1.31   | 5593.74   | 2890.41  | 0.09   |
| raymondville   | reach 1   | 44582.*   | 8064.00  | 6.93   | 18.25  | 15.00                         | 18.27  | 0.000157   | 1.89   | 10678.60  | 4439.19  | 0,11   |
|  |   |   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 44166.*   | 1374,00  | 6.86   | 16.12  | 9.77                          | 16.13  | 0.000054   | 0.92   | 3611.94   | 2715.06  | 0.08   |
| raymondville   | reach 1   | 44166.*   | 2022.00  | 6.86   | 16.52  | 10.50                         | 16.53  | 0.000063   | 1.03   | 4718.69   | 2810.80  | 0.07   |
| raymondville   | reach f   | 44186.*   | 3078.00  | 6.86   | 16.94  | 11.53                         | 16.95  | 0.000081   | 1.22   | 6077.21   | 3762.04  | 0.08   |
| raymondville   | reach 1   | 44166.*   | 8064.00  | 6.86   | 18.21  | 15.00                         | 18.22  | 0.000125   | 1.68   | 11533.62  | 4438.98  | 0.10   |
| Araba and a  |   | 3/00/1  |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach t   | 43750   | 1374.00  | 6.79   | 16.09  | 9.70                          | 18.10  | 0.000045   | 0.84   | 4023.86   | 3410.61  | 0.06   |
| raymondville   | reach 1   | 43750   | 2022.00  | 6.79   | 16.49  | 10.43                         | 18.50  | 0.000051   | 0.93   | 5422.08   | 3609.95  | 0.06   |
| raymondville   | reach 1   | 43750   | . 3078.00  | 6.79   | 16.90  | 11.48                         | 16.91  | 0.000071   | 1.14   | 6962.88   | 3997.63  | 0.08   |
| raymondville   | reach 1   | 43750   | 8064,00  | 8.79   | 18.16  | 15.00                         | 18.17  | 0.000100   | 1.51   | 12391.28  | 4439.00  | 0.09   |
| 1. 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19   | the wall see you've as gas  |   |  |  |  |                               |  |  |  |   |  |  |
| rzymondville   | reach 1   | 43313.8*  | 1374.00  | 6.72   | 16.06  |                               | 16.07  | 0.000081   | 0.96   | 3515.08   | 3339.70  | 0.07   |
| reymondville   | reach 1   | 43313.81  | 2022.00  | 6.72   | 16.46  |                               | 16.47  | 0.000067   | 1.05   | 4917.35   | 3887.51  | 0.07   |
|  | reach 1   | 43313.6*  | 3078.00  | 6.72   | 16.87  |                               | 16.88  | 0.000086   | 1.24   | 6493.11   | 3976.92  | 0.08   |
| raymondville   | reach i   | 43313.6*  | 8064.00  | 6.72   | 18.11  |                               | 18.12  | 0.000115   | 1.60   | 11864.66  | 4447.88  | 0.10   |
| 11 1971 14   | teres in the second   | A second  |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 42877.2*  | 1374.00  | 6.65   | 16.02  |                               | 16.03  | 0.000086   | 1.12   | 2988.81   | 3365.85  | 0.08   |
| raymondville   | reach 1   | 42877.2*  | 2022.00  | 6.65   | 16.42  |                               | 16.43  | 0.000098   | 1.24   | 4426.09   | 3806.35  | 0.09   |
| raymendville   | reach 1:  | 42877.2*  | 3078.00  | 6.65   | 16.82  |                               | 16.83  | 0.000107   | 1.36   | 5965.40   | 3938.56  | 0.09   |
| raymondville   | reach 1   | 42877.2"  | 8064.00  | 6.65   | 18.05  | -                             | 18.07  | 0.000134   | 1.70   | 11303.40  | 4472.53  | 0.09   |
| 1 1 1 1  | - 7 W S   | Silva,  |  |  |  |                               |  |  |  |   |  | V.11   |
| raymondville   | reach 1   | 42440.8*  | 1374.00  | 6.57   | 15.96  |                               | 15.98  | 0.000129   | 1.35   | 2443.97   | 3181.72  | 0.10   |
| raymondville   | reach 1   | 42440.8*  | 2022.00  | 6.57   | 16.36  |                               | 16.38  | 0.000125   | 1.39   | 3906.08   | 3723.69  | 0.10   |
| raymondville   | reach 1   | 42440.8°  | 3078.00  | 6.57   | 18.76  |                               | 16.77  | 0.000138   | 1.52   | 5392.25   | 3847.58  | 0.10   |
| raymondville   | reach 1   | 42440.8*  | 8064,00  | 6.57   | 17.99  |                               |  |  | 1.02   | 10704.22  | 4525.97  | 0.10   |
| 10,000,000   |   |   | 0004,001   |  | 17.331   |                               | 18.00  | 0.0001591  | 1 82   |   |  | 0.11   |
| The Manager of the Control of the Co   | 사람들이 그 기가 있다.   | # 3-7 C   | 5004.00  |  | 17.33  |                               | 18.00  | 0.000159   | 1.83   | 10704.22  |  | 0.11   |
| raymondville   | reach i   | 42004.4*  | 1374.00  |  |  | -                             |  |  |  |   |  | Ų.11   |
| raymondville<br>raymondville   | reach 1<br>reach 1  | gazini ili  | 1374.00  | 6.50   | 15.68  | -                             | 15.91  | 0.000171   | 1.52   | 1911.60   | 2607.27  | 0 44   |
|  |   | 42004.4*  | 1374.00<br>2022.00   | 6.50<br>6.50   | 15. <b>68</b><br>16.30   |                               | 15.91<br>16.32   | 0.000171<br>0.000172   | 1.52<br>1.60   | 1911.60<br>3340.83  | 2607.27<br>3696.67   | 0.11   |
| raymondville   | reacht 1  | 42004.4°<br>42004.4°  | 1374.00<br>2022.00<br>3078.00  | 6.50<br>6.50<br>6.50   | 15.88<br>16.30<br>16.68  |                               | 15.91<br>16.32<br>16.70  | 0.000171<br>0.000172<br>0.000184   | 1.52<br>1.60<br>1.72   | 1911.60<br>3340.83<br>4764.16   | 2607.27<br>3696.67<br>3749.99  | 0.12   |
| raymondville<br>raymondville   | reach 1   | 42004.4°<br>42004.4°<br>42004.4°  | 1374.00<br>2022.00   | 6.50<br>6.50   | 15. <b>68</b><br>16.30   |                               | 15.91<br>16.32   | 0.000171<br>0.000172<br>0.000184   | 1.52<br>1.60   | 1911.60<br>3340.83  | 2607.27<br>3696.67   |  |
| raymondville<br>raymondville   | reach 1:  | 42004.4°<br>42004.4°<br>42004.4°<br>42004.4°  | 1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50   | 15.68<br>16.30<br>16.58<br>17.90   |                               | 15.91<br>16.32<br>16.70<br>17.93   | 0.000171<br>0.000172<br>0.000184<br>0.000205   | 1.52<br>1.60<br>1.72<br>2.04   | 1911.60<br>3340.83<br>4764.16<br>10209.39   | 2607.27<br>3696.67<br>3749.99<br>5430.43   | 0.12<br>0.13   |
| raymondville<br>raymondville<br>raymondville   | reach 1   | 42004.4°<br>42004.4°<br>42004.4°  | 1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50   | 15.88<br>16.30<br>16.68<br>17.90   |                               | 15.91<br>16.32<br>16.70<br>17.93   | 0.000171<br>0.000172<br>0.000184<br>0.000205   | 1.52<br>1.60<br>1.72<br>2.04   | 1911.60<br>3340.83<br>4764.18<br>10209.39   | 2607.27<br>3696.67<br>3749.99<br>5430.43   | 0.12<br>0.13<br>0.13   |
| raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41588  | 1374.00<br>2022.00<br>3078.00<br>8064.00<br>1374.00<br>2022.00   | 6.50<br>6.50<br>6.50<br>6.50<br>8.43<br>6.43   | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19   |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91   | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98   | 0.12<br>0.13<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00  | 6.50<br>6.50<br>6.50<br>8.50<br>8.43<br>6.43<br>6.43   | 15.68<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57  |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000263   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02   | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39  | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29  | 0.12<br>0.13<br>0.13<br>0.14<br>0.14   |
| raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41588  | 1374.00<br>2022.00<br>3078.00<br>8064.00<br>1374.00<br>2022.00   | 6.50<br>6.50<br>6.50<br>6.50<br>8.43<br>6.43   | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19   |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91   | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98   | 0.12<br>0.13<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1<br>reach 1<br>reach 1<br>reach 1<br>reach 1<br>reach 1  | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43   | 15.88<br>16.30<br>16.58<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82                                     |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61  | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000263<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05                                 | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65  | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3656.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43   | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82                                     |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84                                     | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05                                 | 1911.60<br>3340.83<br>4754.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65  | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43                                 | 15.88<br>16.30<br>16.88<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82                                     |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84                                     | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70                         | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65<br>4946.33   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.08                                 |
| reymondville reymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>39543<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00            | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43                                 | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.02          |                               | 15.91<br>18.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02                   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000268<br>0.000263<br>0.000264   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71                 | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4669.39<br>10591.65<br>4946.33<br>7030.19<br>9241.57                       | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.09<br>0.09                         |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43                                 | 15.88<br>16.30<br>16.88<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82                                     |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84                                     | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70                         | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65<br>4946.33   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.09<br>0.09                         |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                                 | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543<br>39543<br>39543<br>39543          | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00            | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10                         | 15.88<br>16.30<br>16.58<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.02<br>17.62 |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63          | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000283<br>0.000284<br>0.000055<br>0.000050<br>0.000050                                     | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77         | 1911.80<br>3340.83<br>4794.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65<br>4946.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.06<br>0.06<br>0.07                 |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                 | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543<br>39543<br>39543<br>39543<br>39543 | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10                 | 15.88<br>16.30<br>16.58<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 8.62                          | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63 | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000054                         | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77         | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4948.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00<br>6000.00                                  | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.08<br>0.09<br>0.09                 |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 42004.4° 42004.4° 42004.4° 42004.4° 41568 41568 41568 41568 39543 39543 39543 37135   | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>5.71                 | 15.88<br>16.39<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9.34                          | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63          | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000258<br>0.000254<br>0.000050<br>0.000050<br>0.000054                         | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>6000.00<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.14<br>0.08<br>0.09<br>0.09<br>0.09<br>0.09 |
| reymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                                 | 42004.4* 42004.4* 42004.4* 42004.4* 41588 41588 41588 39543 39543 39543 37135 37135   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>6.10<br>5.71<br>5.71 | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9. <b>34</b><br>10. <b>37</b> | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63 | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000061<br>0.000061<br>0.000061 | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>6464.98<br>8452.46 | 2807.27<br>3696.87<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00<br>6000.00<br>4749.40<br>5104.82<br>5378.79 | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.06<br>0.06<br>0.06<br>0.07<br>0.07 |
| raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>raymondville<br>ra | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 42004.4° 42004.4° 42004.4° 42004.4° 41568 41568 41568 41568 39543 39543 39543 37135   | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>5.71                 | 15.88<br>16.39<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9.34                          | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63          | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000061<br>0.000061<br>0.000061 | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>6000.00<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.14<br>0.08<br>0.09<br>0.09<br>0.09<br>0.09 |
| raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                                 | 42004.4* 42004.4* 42004.4* 42004.4* 41588 41588 41588 39543 39543 39543 37135 37135   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>6.10<br>5.71<br>5.71 | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9. <b>34</b><br>10. <b>37</b> | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63 | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000061<br>0.000061<br>0.000061 | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>6464.98<br>8452.46 | 2807.27<br>3696.87<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00<br>6000.00<br>4749.40<br>5104.82<br>5378.79 | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.06<br>0.06<br>0.06<br>0.07<br>0.07 |

HEC\_DAS\_Plan: P\_25% 3 (Continued)
River Reach River \$ta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chf (cfa) (ft) (ff) (ft) (10) (fVft) (fl/a) (ag ft) raymondville reach 1 34845 2255.00 5.33 15.8 4499.80 4727.52 0.10 raymondvilla reach t 34845 2858 00 5 33 16.16 16.17 0.000108 1.32 6063.59 0.09 raymondville reach 1 34845 7234 00 5.33 17.31 17.3 0.000120 1.54 12152.38 6000.00 0.10 raymondville reach 1 34788 1714.00 15.38 15.42 0.000242 2317 11 5.32 1 81 4556 48 0.13 raymondville reach 1 34788 2255.00 5.32 15,82 15.84 0.000145 1.48 4335.59 4722.59 0.10 raymondville reach 1 34790 2856.00 5.32 16.16 0.000114 16.15 1.36 591B.32 4853.13 0.09 raymondville ech 1 34786 7234.00 5.32 17.31 17.30 0.000123 1.57 11999.30 6000.00 0.10 32585 raymondville reach 1 1714.00 4.96 14 67 14 74 0.000408 2 2R 1043.70 1133.11 0.17 raymondville reach i 2255.00 4 98 15.39 15 43 0.000246 1 92 2999.29 3852.55 0.14 raymondville reach 1 2856,00 4.96 15.85 15.87 0.000155 1.60 4837.07 4106 89 0.11 raymondville reach 1 7234.00 4,96 16,99 17.01 0.000157 1.79 10782.18 5487.96 0.11 raymondville raach 1 30544 1714 00 13.93 4.63 13.82 0.000393 2.65 651.73 114.58 0.17 0.000475 raymondviše reach 1 30584 2255.00 4 63 14.61 14.75 3.05 912.78 898.14 0.19 2048.00 raymondville reach 1 30564 2856.00 4.63 15.25 15.37 0.000441 3.04 3095.80 0.19 raymondville reach 1 7234.00 4.63 16.54 18.57 0.000304 2.31 8886.27 6000.00 0.15 raymondville reach 1 29170 4.40 13.22 13.34 0.000459 613.82 89.31 0.19 2.79 raymondville mach 1 2255.00 29170 13.81 13.99 3.38 668.09 91.71 0.22 0.000830 *r*aymondville reach t 29170 2856 00 4.40 14.30 14.55 4.0 712.64 93.63 0.26 raymondville reach 1 29170 7234.00 4,40 15.99 16.07 0.000612 3.24 6748.65 6000.00 0.22 raymondville reach 1 26867.7 1714.00 4.35 13.07 13.18 0.000482 2.83 605.36 89.47 0.19 rzymondville 2255.00 4.35 13,61 13.79 0.000669 654.05 3.45 91.93 0.23 raymondville reach 1 28867 7° 2856.00 4.35 14.02 14.28 4.10 744.36 444.14 0.27 raymondville 0.000690 each 1 28867.7\* 7234.00 4.35 15.80 15.89 6258.86 6000.00 0.23 raymondville reach I 28565.5\* 1714.00 4.30 12 92 13 04 0.000497 283 885 41 316.05 n 10 raymondville 28565.5 reach 1 2255.00 0,000888 4.30 13.40 13.55 3.24 889.85 549.79 0.25 2856.DC 4.30 13.80 13.97 0.000980 3.56 1127.59 630.05 0.27 raymondville 28565.5\* reach 1 15.58 15.69 0.00074 3,70 5712.11 5784.1 0.24 raymondville reach 1 26263.2\* 1714 00 4.25 12 81 12 R 0.000466 2.31 1071.21 576.7 0.18 raymondville reach 1 26263.2 2255.00 4.25 13.24 13.32 0.000525 2.57 1331.63 633 B 0.19 raymondville reach 1 28263.21 2856.00 4.25 13.62 13.72 0.000606 2.87 1589.04 750 20 0.21 28263.21 raymondville reach 1 7234.00 4.25 0.000717 15.37 15.48 3.70 5485.70 5192.44 0.24 raymondville reach 1 27961 1714.00 4.20 12.74 12.77 0,000235 1.70 1570.27 639.60 0.13 0.000290 raymondville teach 1 27981 2255.00 4.20 13.16 13.20 1.98 746.39 0.15 raymondville reach 1 27961 2856.00 4.20 13.52 13.57 0.000338 2 21 2139.81 B16.95 0.16 raymondville reach 1 27961 7234.00 4.20 15.18 15.28 0.000648 3.57 5451.64 4766.41 0.23 raymondville 27505.2 1714.00 4.13 reach 1 12.63 12.67 0.000249 1.74 1577.57 724.39 0.13 raymondville reach t 27505.21 2255.00 4.13 13.03 13.07 0.000296 1.98 1886.68 821.50 0.15 raymondville reach 1 27806 21 2856.00 4.13 13.38 13.42 0.00033 2179.60 860.65 0.16 nsymondville reach t 27505.21 7234.00 4.13 14.89 14.96 0.000636 3.49 5859.91 5090.24 0.23 raymondville 27049.4 4.05 1714.00 12.52 12.55 0.000255 each 1 1.74 1619.24 824 8 0.14 raymondville 27049.4\* 4.05 2255.00 reach 1 12.90 12.94 0.000289 1.94 1946.59 884.49 0.15 2856.00 13.23 0.000330 13.28 2.15 1260.16 2300.04 0.16 27049,4" 4.05 raymondville each 1 7234.00 14.6 14.73 0.000470 6868.74 2.98 5359.37 0.19 raymondville reach t 28593.6 1714.00 3 98 12 42 12 45 0.000234 1.66 1768 SE 1006 30 0.13 28593.6\* raymondville reach 1 2255.00 3.98 12.79 12.82 0.000256 1.82 2228 48 1364 94 0.14 26593.6 2856.00 raymondville 3.98 0,000304 reach 1 13.10 13.14 2.06 2733.16 2183,10 0.15 reach 1 6593.6 7234.00 raymondville 3.96 14.53 0.000266 14.56 2.23 8679.77 5107.22 0.15 raymondville reach 1 26137.8\* 1714.00 3.90 12 34 12.36 0.000185 0.12 1.48 2192.22 1558.26 raymondville reach 1 26137.8" 2255.00 3.90 12.68 12.71 0.000244 1.77 2932.78 3244.10 0.13 raymondville reach 1 26137.8 2856.00 3.90 13.00 13.02 0 000218 1.74 4116 03 4080 54 0.13 raymondville 28137.B1 7234.00 3.90 14.46 reach 1 14.47 0.000140 1.62 10848.63 4908.55 0.11 raymondville reach 1 25882 3.83 1714.00 12.28 12.30 0.000131 4063.17 1.25 0.10 raymondville 0.000105 reach 1 25682 2255.00 3 83 12.63 12 84 1.17 4956.15 4115.0 0.09 raymondville reach 1 25662 2856.00 3.83 12.95 12.96 0.000091 1.13 6283.81 4163.40 0,08 25682 reymondville reach 1 7234.00 3.83 14.42 14 43 0.000076 1 22 13204.53 4898 61 0.08 raymondville 25281. 1714.00 3.76 12.25 0.000100 4054.57 reach 1 12.25 1.11 4044.35 0.09 raymondville 25281. 2255.00 3.76 12.60 12.61 reach 1 5490.50 4121.23 0.08 raymondville 25281. 2856.00 3.76 12.92 12.93 0.000081 reach 1 1.08 6893.04 4654.45 0.08 25281.\* 7234.00 3.76 14.40 14.41 0.000074 1.20 raymondville each 1 14367.09 00.000 80,0 24880. raymondville reach 1 1714.00 3,70 12.22 12.22 0.000071 0.95 4652.35 3810.08 0.07 24880. 3.70 12.57 0.000065 raymondville reach 1 2255.00 12.58 0.95 6081.32 4209.63 0.07 24880 2856.00 3.70 12.90 12.91 0.000063 raymondville reach 1 0.97 4663.09 7572.73 0.07 raymondville 24880.\* 7234.00 14.38 14.38 0.000058 reach 1 1.08 15634.68 6000.00 0.07 raymondville reach 1 24479. 1714.00 3.63 12.20 12.20 0.000051 0.82 5339.50 3891.35 0.06 raymondville reach t 24479. 2255.00 3.63 12.56 12.56 0.000048 0.83 6808.75 4400 BC 0.06 raymondville 24479. 3.63 reach 1 2856.00 12.89 12.89 0.000049 0.87 8396.18 4998.58 0.06 raymondville 24479 3.63 0.000046 reach 1 7234.00 14.36 14.36 16904.31 0.97 6000.00 0.06

|                            | Reach                                   | River Sta                 | C Total      | Min Ch El | W.S. Elev    | Crit W.S.  | E.G. Elev    | E.G. Slope   | Vel Chnl   | Flow Area    | Top Width     | Frouds # Chi                          |
|----------------------------|---|---------------------------|--------------|-----------|--------------|--|--------------|--------------|--|--------------|---------------|---------------------------------------|
| 45                         |   | 6 0 0                     | (cfs)        | (ft)      | (ft)         | (ft)   | (ft)         | (ft/ft)      | (ft/n)   | (sq ft)      | (ft)          | , rodde w Ora                         |
|                            |   | 4 2000                    | 3            |           |              |  | 1            |              | 15-7   | (94.14       |               | · · · · · · · · · · · · · · · · · · · |
| aymondville                | reach 1                                 | 24078.*                   | 1714.00      | 3.57      | 12.18        |  | 12.19        | 0.000037     | 0.70   | 6166.50      | 4144.97       | 0.0                                   |
| symondville                | reach 1                                 | 24078.*                   | 2255.00      | 3.57      | 12.54        |  | 12.54        | 0.000036     | 0.73   | 7758.80      | 4865.35       | 0.0                                   |
| aymondville                | reach 1                                 | 24078.*                   | 2856.00      | 3.57      | 12.87        |  | 12.87        | 0.000037     | 0.77   | 9425.27      | 5486.29       |                                       |
| avmondville                | reach 1                                 | 24078.*                   | 7234.00      | 3.57      | 14.34        |  | 14.34        | 0.000037     | 0.77   |              |               | 0.                                    |
| ZYTTER KANTO               | 164311                                  | 24010,                    | 7234.00      | 3.3/1     | 14.54        |  | 14.34        | 0.000037     | 0.88   | 18167.29     | 6000.00       | 0.                                    |
| 1 A 40                     | 2.21.22                                 |                           |              | 2.55      |              |  |              |              |  |              |               |                                       |
| ymorkiville                | reach 1                                 | 23877                     | 1714.00      | 3.50      | 12.16        |  | 12.17        | 0.000027     | 0.60   | 7145.78      |               | 0.                                    |
| aymondville                | reach 1 ×                               | 23877                     | 2255.00      | 3.50      | 12.52        |  | 12.53        | 0.000026     | 0.62   | 8905.38      | 5218.63       | 0.                                    |
| aymondville                | reach 1                                 | 23677                     | 2856.00      | 3.50      | 12.85        |  | 12.85        | 0.000027     | 0.66   | 10699.55     | 5874.64       | 0.                                    |
| zymondville                | reach 1                                 | 23677                     | 7234.00      | 3.50      | 14.31        |  | 14.32        | 0.000030     | 0.80   | 19430.78     | 6000.00       | 0.                                    |
| 0.00                       |   | Q46600 x 3 3              |              |           |              |  | 1            |              |  |              |               |                                       |
| symondville                | reach 1                                 | 21560                     | 1714.00      | 3.17      | 12.13        |  | 12.13        | 0.000013     | 0.42   | 10238.60     | 6000.00       | 0                                     |
| symondville                | reach 1.                                | 21660                     | 2255.00      | 3.17      | 12.49        |  | 12.50        | 0.000012     | 0.42   | 12410,15     | 6000.00       | 0                                     |
| eymondville                | reach 1                                 | 21880                     | 2856.00      | 3.17      | 12.82        |  | 12.82        | 0.000013     | 0.44   | 14360.32     | 6000.00       | 0                                     |
| symondville                | reach 1                                 | 21880                     | 7234.00      | 3.17      | 14.27        |  | 14.28        | 0.000018     | 0.60   | 23083.75     | 6000.00       | - 0                                   |
| 2.33 3a x 9x               | N. S. C. (1862) 124 (1974)              | 22 (20) (c. 1             |              |           |              |  |              |              |  |              |               |                                       |
| eymondyille                | reach 1                                 | 19606                     | 1714.00      | 2.83      | 12,11        |  | 12.11        | 0.000013     | 0.42   | 10017.37     | 5923.15       | 0                                     |
| symondville                | reach 1                                 | 19606                     | 2255.00      | 2.83      | 12.48        |  | 12.48        | 0.000012     | 0.43   | 12228.49     |               | 0                                     |
| aymondville                | reach 1                                 | 19606                     | 2856.00      | 2.83      | 12.80        |  | 12.80        | 0.000013     | 0.45   | 14140.04     |               | 0                                     |
| symondville                | reach f                                 | 19808                     | 7234.00      | 2.83      | 14.24        |  | 14.25        | 0.000018     | 0.61   | 22818.38     |               |                                       |
| 47.1001 12.74.10           | TOWAY                                   | 7.5 (6. a)                | 1204.00      | 2.00      | 77-24        |  | 14.23        | 0.000010     | 0.01   | 22010.30     | 0000.00       | 0                                     |
|                            |   | 4040000                   | 1714 00      | 2.75      | 12.10        |  | 40.40        | 0.00004.4    | - 0.45   | 2245.27      |               |                                       |
| rymondville                | reach 1                                 | 19152.2*                  | 1714.00      | 2.75      | 12.10        |  | 12.10        | 0.000014     | 0.45   | 9715.97      | 6000.00       |                                       |
| symondville                | reach 1                                 | 19152.2*                  | 2255.00      | 2.75      | 12.46        |  | 12.46        | 0.000013     | 0.45   | 11917.36     |               |                                       |
| ymondville:                | reach 1                                 | 19152.2*                  | 2858.00      | 2.75      | 12.78        |  | 12.78        | 0.000014     | 0.47   | 13843.21     | 6000.00       |                                       |
| rymondville                | reach 1                                 | 19152.2*                  | 7234.00      | 2.75      | 14.23        |  | 14.23        | 0.000019     | 0.83   | 22508.75     | 6000.00       |                                       |
| <u> </u>                   | 16 C 10 C 17 PROVINCE TO                |                           |              |           | ·            | l  | <del> </del> | <u> </u>     |  |              | ļ             |                                       |
| aymondville                | reach 1                                 | 18698.5*                  | 1714.00      | 2.68      | 12.08        |  | 12.08        | 0.000018     | 0.47   | 9418.08      |               |                                       |
| ymondville                 | reach 1                                 | 18698.5*                  | 2255.00      | 2.68      | 12.45        |  | 12.45        | 0.000015     | 0.47   | 11607.82     | 6000.00       | (                                     |
| symondville                | reach 1                                 | 18698,5*                  | 2856.00      | 2.68      | 12.77        |  | 12.77        | 0.000015     | 0.49   | 13547.98     | 6000.00       |                                       |
| ymondville                 | reach 1                                 | 18698.5*                  | 7234.00      | 2.68      | 14.21        |  | 14.21        | 0.000020     | 0.64   | 22202.71     | 6000.00       |                                       |
| 1.12                       |   | (,48 <sup>3</sup> 773 + 1 |              |           |              |  |              |              |  |              |               |                                       |
| aymondville                | reach 1                                 | 18244.7*                  | 1714.00      | 2.61      | 12.07        |  | 12.07        | 0.000017     | 0.49   | 9110.36      | 6000.00       | -                                     |
| aymondville                | reach 1                                 | 18244.7"                  | 2255.00      | 2.61      | 12.43        |  | 12.43        | 0.000016     | 0.49   | 11288.44     | <del></del>   | <del></del>                           |
| symondville                | reach 1                                 | 18244.7*                  | 2856.00      | 2.61      | 12.78        |  | 12.76        | 0.000016     | 0.51   | 13242,88     | <del></del>   |                                       |
| symondville                | reach 1                                 | 18244.7*                  | 7234.00      | 2.61      | 14.20        |  | 14.20        | 0.000021     | 0.66   | 21886.83     | <del></del>   |                                       |
| 27112774174                | 181111111111111111111111111111111111111 | 880 900                   | 7204.00      |           | 14.20        | -  | 14.20        | 0.000021     | 0.00   | 21000.00     | 0000.00       | <del> </del>                          |
| rymondville                | reach 1                                 | 17791.*                   | 1714.00      | 2.53      | 12.05        |  | 12.05        | 0,000019     | 0.52   | 6812,47      | 6000.00       | <del> </del>                          |
|                            |   |                           |              |           |              |  |              |              |  |              | <del></del> - |                                       |
| rymondville                | reach 1                                 | 17791.*                   | 2255.00      | 2.53      | 12.41        |  | 12.42        | 0.000017     | 0.52   | 10978.90     | <del></del>   |                                       |
| aymondville                | reach 1                                 | 17791.*                   | 2858.00      | 2.53      | 12.74        |  | 12.74        | 0.000017     | 0.53   | 12947.63     |               |                                       |
| aymondville                | reach 1                                 | 17791.*                   | 7234.00      | 2.53      | 14.18        |  | 14.18        | 0.000021     | 0.68   | 21580,79     | 6000.00       |                                       |
| <u> </u>                   |   | 100000                    |              |           |              |  |              |              |  | ·            |               |                                       |
| ymondville                 | reach 1                                 | 17337.2*                  | 1714.00      | 2.45      | 12.04        |  | 12.04        | 0.000021     | 0.55   | 8516.46      |               |                                       |
| ymondviše                  | reach 1                                 | 17997.2*                  | 2255.00      | 2.45      | 12.40        | <u> </u>   | 12.40        | 0.000019     | 0.54   | 10671.23     | 6000.00       | <u> </u>                              |
| symondville                | reach 1                                 | 17337.2*                  | 2856.00      | 2.45      | 12.73        |  | 12.73        | 0.000018     | 0.55   | 12654.25     | 6000.00       | L                                     |
| aymondville                | reach #                                 | 17337.2*                  | 7234.00      | 2.45      | 14.17        |  | 14.17        | 0.000023     | 0.69   | 21276.61     | 6000.00       |                                       |
| Egyptiq excens             | e di Colonia                            | ranging to                |              |           |              |  |              |              |  |              |               |                                       |
| aymondville                | reach-1                                 | 16883.5*                  | 1714,00      | 2.38      | 12.03        |  | 12.03        | 0.000024     | 0.58   | 8209.99      | 6000.00       |                                       |
| aymondville                | reach 1                                 | 18883.5*                  | 2255.00      | 2.38      | 12.38        | 1  | 12.38        | 0.000021     | 0.57   | 10353.11     | 6000.00       |                                       |
| aymondville                | reach 1                                 | 18883.5*                  | 2858.00      | 2.38      | 12.72        |  | 12.72        | 0.000020     | 0.57   | 12350.42     | 6000.00       |                                       |
| aymondville                | reach 1                                 | 16883.5"                  | 7234.00      | 2.38      | 14.15        |  | 14.15        | 0.000024     | 0.71   | 20961.98     | 6000.00       |                                       |
| 100 00000                  | and the second                          | 30 MHz                    |              |           |              |  |              |              | <del>                                     </del> |              | 1             |                                       |
| ay mondville               | reach t                                 | 16429.7                   | 1714.00      | 2.31      | 12.00        |  | 12.01        | 0.000027     | 0.82   | 7863.26      | 6000.00       |                                       |
| aymondville                | reach 1                                 | 18429.7                   | 2255.00      | 2.31      | 12.37        | _  | 12.37        | 0.000023     | <del></del>                                      |              | <del></del>   |                                       |
| aymondville                | reach 1                                 | 16429.7                   | 2858.00      | 2.31      | 12.70        | -  | 12.70        | 0.000021     | <del></del>                                      |              |               | <del></del>                           |
| aymondville                | reach 1                                 | 16429.7                   | 7234.00      | 2.31      | 14.14        | <del>                                     </del> | 14.14        | 0.000025     | <del></del>                                      |              |               |                                       |
| 27.1101 P.170PO            | I COUNTY I                              | 10-468./                  | /234.00      | 2.31      | 14,14        | <del></del>                                      | 19.14        | 0.00025      | 0.73   | 20003.93     | 6000.00       | <del> </del>                          |
|                            | Iranh 4                                 | 15970                     |              | 2.23      |              | <del></del> -                                    | 11.98        | 0.000029     | 0.84   | 7/**         | 2200          | <del> </del>                          |
| eymondville                | reach 1                                 |                           | 1714.00      |           | 11.98        | +  |              |              |  | 7522.41      |               | <del></del>                           |
| aymondville                | reach 1                                 | 15976                     | 2255.00      | 2.23      | 12.35        |  | 12.35        | 0.000025     |  |              | <del></del>   | <del></del>                           |
| symondville                | reach 1                                 | 15978                     | 2858.00      | 2.23      | 12.69        | <del>+</del>                                     | 12.69        | 0.000023     |  |              |               |                                       |
| aymondville                | reach 1                                 | 15976                     | 7234.00      | 2.23      | 14.12        | <b> </b>   | 14.12        | 0.000026     | 0.75   | 20347.36     | 6000.00       |                                       |
| نستناب حويث                | pagayasina ing                          | Pharma                    | <b></b>      |           |              | ļ  | 4            | ļ <u> </u>   | ļ  | ļ <u>.</u>   | ļ             | <u> </u>                              |
| symondville                | reach 1                                 | 15817.2"                  | 1714.00      | 2.16      | 11.94        |  | 11.98        | 0.000132     |  | <del></del>  |               |                                       |
| zymondville                | reach 1                                 | 15617.2"                  | 2255.00      | 2.16      | 12.32        |  | 12.33        | 0.000087     | 1.17   | 5882.30      | 5711.75       |                                       |
| aymondville                | reach 1                                 | 15617.2*                  | 2856.00      | 2.16      | 12.67        |  | 12.67        | 0.000089     | 1,08   | 7865.54      | 6000.00       |                                       |
| ymondville                 | reach 1                                 | 15517.2*                  | 7234.00      | 2.16      | 14.09        |  | 14.10        | 0.000050     | 1.05   | 16438.49     | 6000.00       | ,                                     |
| \$2000 A                   | The state of the state of               | part Burg.                |              |           |              |  |              |              |  |              |               | T                                     |
| symondville                | reach t                                 | 15058.4"                  | 1714.00      | 2.08      | 11.82        |  | 11.87        | 0.000256     | 1.92   | 1508.19      | 1757.45       | <del></del>                           |
| aymondville                | reach 1                                 | 15058.4*                  | 2255.00      |           | 12.22        |  | 12.26        | <del></del>  |  |              |               |                                       |
| symondville                | reach 1                                 | 15058.4*                  | 2856.00      | 2.08      | 12.58        |  | 12.62        | <del></del>  |  | <del></del>  | <del></del>   |                                       |
| symondville                | reach 1                                 | 15058.4*                  | 7234.00      | 2.08      | 14.05        | <del>+</del>                                     | 14.07        | 0.000238     |  |              |               |                                       |
| ayitte NYIIIS              | regul F                                 | 10000,4                   | 1234.00      | 2.08      | 14.05        | <del> </del>                                     | 14.07        | 0.000112     | 1.3/   | 12440,4      | 0,000.00      | <del> </del>                          |
|                            |   | 1                         | 1            | ļ         | <del></del>  | <del> </del>                                     | <del> </del> | <del> </del> | ·  |              |               | +                                     |
| aymondville                | reach 1                                 | 14599.6*                  | 1714.00      | 2.01      | 11.68        | <del></del>                                      | 11.73        | <del></del>  | <del></del>                                      |              |               |                                       |
| aymondville                | reach 1                                 | 14599.6*                  | 2255.00      | 2.01      | 12.05        |  | 12.12        |              |  |              |               | <del></del>                           |
| aymondville                | reach 1                                 | 14599.6*                  | 2856.00      |           |              | <del>+</del>                                     | 12.47        |              |  |              |               |                                       |
| symondville ::             | reach 1                                 | 14599.6*                  | 7234.00      | 2.01      | 13.94        |  | 13.98        | 0.000303     | 2.57   | 8021.3       | 5857.80       | )                                     |
| <u> </u>                   |   | Refeater 1                | L            |           | L            |  |              |              |  |              |               | 1                                     |
| aymondville                | reach 1                                 | 14140.8*                  | 1714.00      | 1.93      | 11.53        | I  | 11.59        | 0.00032      | 2.12   | 1101.6       | 656.80        | 3                                     |
| aymondville                | reach 1                                 | 14140.8*                  | 2255.00      |           |              |  | 11.94        |              |  |              |               |                                       |
| aymondville                | reach 1                                 | 14140.81                  | 2856.00      |           | <del></del>  | <del></del>                                      | 12.27        |              | <del></del>                                      | <del></del>  |               |                                       |
|                            |   |                           |              |           |              |  | +            |              |  |              |               |                                       |
| aymondville                | reach 1                                 | 14140.8*                  | 7234.00      | 1.93      | 13.64        | <del> </del>                                     | 13.77        | 0.00070      | 3.84   | 4590.0       | 3224.1        | <del>' </del>                         |
|                            |   | 1                         | <del> </del> | ļ         | <del> </del> | <del> </del>                                     |              |              |  | <del> </del> |               | <del>!</del>                          |
|                            | reach 1                                 | 13682                     | 1714.00      | 1.86      | 11.37        | 1  | 11.44        | 0.000356     | 2.18   | 1008.0       | 4 528.14      | <b>3</b> 1                            |
| aymondville<br>aymondville | reach 1                                 | 13682                     | 2255.00      |           | 11.63        |  | 11.73        | 0.000486     | 5 2.65   | +            |               |                                       |

Plan: P. 25% 3 (Continued)
Reach River Sta Q Total HEC-DAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (ft) (fVft) (sq ft) (ft) raymondville reach 1 13882 2856.00 1.86 11.88 12.01 0.000633 3.11 1323,90 713.65 0.22 raymondville 13682 reach 1 7234.00 1.86 12.96 13.29 0.001571 5.44 2310.96 1440.42 0.35 raymondville reach 1 11672 1714.00 1.53 10.91 10.94 0.000176 1.52 3110,63 4476.22 0.11 raymondville 11.18 11672 2255.00 1.53 11.16 0.00016 1.52 4277.26 4718.76 0.11 reach 1 11872 2856.00 1.53 11.40 0.000154 1,52 5401.95 4832.00 0.11 raymondville reach 1 11872 7234.00 1.53 12.29 1.89 9932.97 5302.08 0.13 raymondville reach 1 9670 1714 00 1.20 10.34 10.40 0.000425 2 22 1627.98 3473.50 0.17 raymondville reach 1 9670 2255.00 1.20 10.72 10.76 0.000279 1.89 3335 44 4974.57 0.14 raymondville reach 1 9670 2856,00 1.20 11.05 11.07 0.000197 1.65 4948.82 4988.98 0.12 raymondville reach t 9670 7234.00 1.20 11.82 11.85 0.000271 2.10 8840.94 5023.58 0.14 raymondvilje reach 1 6234 1714.00 0.64 8.37 8.54 0.000749 3.30 518.92 B4.96 0.24 raymondvitle reach 1 B234 2255.00 0.64 8.91 9.15 0.001008 3.99 565.54 87.13 0.28 raymondville reach 1 8234 2856.00 0.64 9.51 5.09 9.71 0.001300 3.90 1512.63 3570,69 0.30 raymondville reach 1 6234 7234.00 0.64 10.83 10.86 0.000343 2.33 8754.97 6000.00 0.16 raymondville reach 1 4339 1714.00 0.31 7.55 3.61 7.57 0.000310 1.18 1447.47 591.70 0.13 4339 2255.00 ray mondville each 1 0.31 7.92 4.19 7.95 0.000363 1.34 1677.04 638.24 0.15 raymondville reach 1 4990 2856.00 0.31 8.27 5.46 8.30 0.000413 1.50 680.49 0.16 raymondville reach T 4339 7234.00 0.31 9.81 6.58 9.90 0.000712 2.39 3032.64 809.69 0.22 raymondville each 1 1714.00 0.30 4300 7.53 3.60 7.56 0.000318 1.19 1435.14 590.12 0.13 raymondville 4300 2255.00 0.30 7.91 4.17 7.93 0.000372 1.36 1662.70 636.37 0.15 rsymondville 2856.00 0,30 8.25 5.49 0.000424 1.51 1890.91 8.29 679.46 0.16 raymondville reach 1 4300 7234.00 0.30 9.78 6.57 9.87 0.000730 2.41 3003.14 805.12 0.22 raymondville reach 1 3878 00 1714 00 0.23 7.38 7 40 0.000372 1 28 1335.31 554,62 0.15 raymondville reach 1 3878.00 2255.00 0.23 7.73 7.76 0.000434 1.47 1536.62 586.82 0,16 raymondville 3878.00 2856.00 0.00048 reach 1 0.23 8.05 8.09 1.65 1728.19 603.07 0.17 raymondviše reach 1 3878.00 0.23 9.55 7234.00 9.45 0.000785 2.53 3641.70 2837.00 0.23 raymondville march 1 3456.00 1714.00 0.16 7.21 0.000419 1.41 1216.97 480.85 0.16 raymondville reach 1 3456.00\* 2255.00 0.16 7.52 7.56 0.000509 1.65 1381.89 647.80 0.17 raymondville reach 1 3456.00\* 2856.00 0.16 7.81 7.87 0.000612 1.86 1598.25 851.32 0.19 3456,00\* raymondville reach 1 7234.00 0.16 9.17 9.24 0.000633 2.39 4598.62 2818.38 0.21 raymondville reach 1 9034.00° 1714.00 0.09 7.04 0.00054 1146.24 7.00 1.62 922.20 0.18 3034.00° 0.09 7.33 raymondville reach 1 2255.00 7.28 0.000572 1.79 1672.42 1900.36 0.19 raymondville reach 1 3034.00 2858.00 0.09 7.57 2240.94 2009.77 0.18 raymondville reach 1 3034.00 7234.00 0.09 8.97 9.02 0.000424 0.17 raymondville reach I 2612.00\* 1714.00 0.02 6.84 6.86 0.000306 1.40 2173.84 2204.77 0.14 7.13 raymondville reach 1 2612.00 2255.00 0.02 7.15 0.000286 1.44 2830.19 2237.88 0.14 raymondville 2856.00 0.02 reach 1 7.44 7.45 0.000264 2612.00 1.48 3509.30 2277.21 0.13 2612.00 raymondville reach 1 7234.00 0.02 8.85 8.87 0.000253 1.77 7203.43 2886.24 0.14 raymondville 2190 each t 1714.00 -0.05 6.78 6.79 0.000097 3643.75 0.99 2179.68 0.08 raymondville each 1 2190 2255.00 -0.05 7.07 7.08 0.000114 1.12 4293.78 2443.35 0.09 raymondville reach 1 2190 2856.00 -0.05 7.37 7.38 0.000115 1.17 5037.54 2479 2B 0.09 raymondville reach 1 2190 7234.00 -0.05 8.77 8.79 0.000157 1.60 8729.76 2912.31 0.11 2522.02 raymondville reach 1 1714.00 -0.41 6,51 2.89 6.52 0.000160 1.16 3264.59 0.10 3.47 2255.00 -0.41 0.000160 raymondville reach 1 6.78 6.79 3950.09 2543.12 0.10 raymondville reach t 2856.00 -0.41 7.08 5.55 7.09 0.000160 1.27 4757.25 3325.34 0.10 raymondville reach 1 7234.00 -0.41 8.43 6.13 8.44 0.000160 1.51 9350.29 3429.34 0.11 North Main 99.87 331370 96.81 103.97 104.06 0.000492 410.00 2.44 168.35 36.91 0.20 North Main reach 4 573.00 96.81 105.23 100.50 105.34 0.000479 2.63 217.96 41.60 331370 0.20 0.000463 96.81 North Main reach 4 331370 770.00 106.53 101.12 106.66 275.18 0.20 North Main ach 4 **33137**D 1392.00 96.81 109.54 102.69 109.70 0.000453 3.23 431.50 57.59 0.21 North Main reach 4 330227 410.00 96.76 103.48 99.35 103.55 0.000399 2.23 183.83 39.69 0.18 North Main 104.76 0.000387 reach 4 330227 573.00 96.76 99.90 104.85 2.41 237.54 44.25 0.18 North Main 330227 96.76 106.07 100.47 0.000374 2,58 48.95 reach 4 770.00 106.18 298.96 0.18 reach 4 1392.00 96.76 109.08 101.93 109.23 0.000374 3.01 59.45 North Main 330227 462.46 0.19 North Main reach 4 330128 410.00 96.76 103.44 99.26 103.52 0.000413 2.31 177.44 36.28 0.18 reach 4 North Main 330128 573.00 96.76 104 71 99.81 104 81 0.000421 2.53 226.49 40.84 0.19 North Main reach 4 330128 770.00 96.76 106.02 100.40 106.13 0.000423 2.72 283.12 45.91 0.19 North Mair reach 4 330128 1392.00 96.76 109.02 101.86 109.18 0.000435 3.17 438.74 57.61 0.20 330078 410.00 96.76 103.41 99.26 103.50 0.000419 2.32 176.65 36.22 North Main reach 4 0.19 North Main reach 4 330078 573.00 96.76 104.69 99.80 104.79 0.000426 2.54 225.58 40.75 0.19 330078 770.00 96.76 108.00 100.39 106 11 0.000427 2 73 282.09 45.83 0.19 North Main reach 4 North Main reach 4 330078 1392.00 96.76 109.00 101.86 109.16 0.000438 3.18 437.41 57.52 0.20 North Main 329975 410.00 97.01 103.29 103.43 136.16 32.79 0.26 reach 4 100.02 0.000858 3.01 North Main 104.57 0.000776 3.16 329975 97.01 181.05 37.34 reach 4 573.00 100.64 104.73 0.25 North Main 329975 770.00 97.0 105.88 101.29 0.000711 3.31 232.97 41.99 0.25 reach 4 North Main reach 4 329975 1392.00 97.0 108.88 102.88 0.000646 3.71 52.67 0.25

|   | Plan: P 25%  |                   |              |           | · · · · · · · · · · · · · · · · · · · |           |           |            |          |                  |           |              |
|---|--|-------------------|--------------|-----------|---------------------------------------|-----------|-----------|------------|----------|------------------|-----------|--------------|
| River                                   | Reach  | River Sta         |              | Min Ch Et | W.S. Elev                             | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chni | Flow Area        | Top Width | Froude # Chl |
| Mouth Main                              |  | 222222            | (cfs)        | (h)       | (ff)                                  | (ft)      | (ft)      | (fVft)     | (ft/s)   | (sq ft)          | (ft)      |              |
| North Main                              | reach 4  | 328000            | 410.00       | 95.28     | 102,35                                | 97.87     | 102.42    | 0.000330   | 2.09     | 198.40           | 40.45     | 0.17         |
| North Main                              | reach 4  | 328000            | 573.00       | 95.26     | 103.69                                | 98.42     | 103.76    | 0.000321   | 2.26     | 253.61           | 45.11     | 0.17         |
| North Main                              | reach 4  | 328000            | 770.00       | 95.26     | 105.04                                | 99.00     | 105.13    | 0.000313   | 2.42     | 317.95           | 49.83     | 0.17         |
| North Main                              | reach 4  | 328000            | 1392:00      | 95.28     | 108.06                                | 100.47    | 108.19    | 0.000329   | 2.88     | 484.17           | 60.35     | 0.18         |
|   |  |                   |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 326000            | 410.00       | 94.56     | 101.63                                | 97.39     | 101.70    | 0.000385   | 2.19     | 187.63           | 40.83     | 0.18         |
| North Mein                              | reach 4  | 326000            | 573.00       | 94.56     | 103.01                                | 97.95     | 103.09    | 0.000354   | 2.31     | 247.67           | 46.27     | 0.18         |
| North Main                              | reach 4  | 326000            | 770.00       | 94.56     | 104.39                                | 98.54     | 104.49    | 0.000332   | 2.44     | 315.63           | 51.75     | 0.17         |
| North Main                              | reach 4  | 326000            | 1392.00      | 94.56     | 107.40                                | 100.02    | 107.52    | 0.000335   | 2.85     | 488.77           | 63.48     | 0.18         |
| , go ( egelig 8                         |  | 1.4.1             |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 324083            | 410.00       | 94.05     | 101.03                                | 96.40     | 101.09    | 0.000267   | 1.90     | 216.21           | 44.36     | 0.15         |
| North Main                              | reach 4  | 324083            | 573.00       | 94.05     | 102,46                                | 96.92     | 102.52    | 0.000249   | 2.02     | 283.23           | 49.81     | 0.15         |
| North Main                              | reach 4  | 324083            | 770.00       | 94.05     | 103,87                                | 97.47     | 103.95    | 0.000238   | 2.15     | 357.59           | 55.24     | 0.15         |
| North Main                              | reach 4  | 324083            | 1392.00      | 94.05     | 108.85                                | 98.88     | 106.96    | 0.000257   | 2.58     | 539.10           | 66.67     | 0.16         |
|   |  | San State Control |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 324005            | 410.00       | 94.05     | 101.01                                | 96.40     | 101.07    | 0.000270   | 1.90     | 215.24           | 44.28     | 0.15         |
| North Main                              | reach 4  | 324005            | 573.00       | 94.05     | 102.44                                | 96.92     | 102.50    | 0.000251   | 2.03     | 282.22           | 49.73     | 0.15         |
| North Main                              | reach 4  | 324005            | 770.00       | 94.05     | 103.85                                | 97.47     | 103.93    | 0.000240   | 2.18     | 358.52           | 55.16     | 0.15         |
| North Main                              | reach 4  | 324005            | 1392.00      | 94.05     | 106.83                                | 98.88     | 106.94    | 0.000259   | 2.59     | 537.70           | 68.59     | 0.18         |
| My disease 13,450                       | ** >/ */   |                   |              |           | 7,5,55                                |           |           | 0.555255   | - 2.55   | 337.10           | - 00.35   | 0,10         |
| North Main                              | reach 4  | 322000            | 410.00       | 93.17     | 100.42                                | 95.84     | 100.48    | 0.000317   | 2.04     | 200.55           | 41.40     | 0.10         |
| North Main                              | reach 4  | 322000            | 573.00       | 93.17     | 101.89                                | 96.40     | 101.96    | 0.000317   | 2.16     | 200.55<br>285.68 | 41.49     | 0.16         |
| North Main                              | reach 4  | 322000            | 770.00       | 93.17     | 103.33                                | 96.99     | 103.41    | 0.000288   | 2.16     |                  | 47.02     | 0.16         |
| North Main                              | reach 4  | 322000            |              |           |                                       |           |           |            |          | 337.43           | 52.45     | 0.16         |
| mani                                    | I STATE OF THE STA | JEEUUU .          | 1392.00      | 93.17     | 108.29                                | 98.48     | 106.37    | 0.000302   | 2.42     | 835.48           | 363.10    | 0.17         |
| Morth Maria                             |  | 222045            | 440.00       |           | 100.00                                |           | /22.42    | 0.000.00   |          |                  |           |              |
| North Main                              | reach 4  | 320965            | 410.00       | 93.05     | 100.00                                | 95.85     | 100.09    | 0.000464   | 2.40     | 171.18           | 36.63     | 0.20         |
| North Main                              | reach 4  | 320985            | 573.00       | 93.05     | 101.51                                | 96.44     | 101.61    | 0.000404   | 2.48     | 230.60           | 41.82     | 0.19         |
| North Main                              | reach 4  | 320965            | 770.00       | 93.05     | 102.98                                | 97.06     | 103.08    | 0.000373   | 2.61     | 295.49           | 48.85     | 0.18         |
| North Main                              | reach 4  | 320965            | 1392.00      | 93.05     | 105.84                                | 98.63     | 106.00    | 0.000408   | 3.13     | 444.07           | 58.65     | 0.20         |
|   | P0000 1 1 2 10   | filip A 1         |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 320873            | 410.00       | 93.05     | 99.95                                 | 95.85     | 100.04    | 0.000476   | 2.42     | 189.52           | 36.47     | 0.20         |
| North Main                              | reach 4  | 320873            | 573.00       | 93.05     | 101.47                                | 96.44     | 101.57    | 0.000412   | 2.50     | 228.96           | 41.69     | 0.19         |
| North Main                              | reach 4  | 320673            | 770.00       | 93.05     | 102.94                                | 97.06     | 103.05    | 0.000379   | 2.62     | 293.80           | 46.72     | 0.18         |
| North Main                              | reach 4  | 320673            | 1392.00      | 93.05     | 105.81                                | 98.63     | 105.96    | 0.000414   | 3.15     | 441.82           | 56.52     | 0.20         |
| THIS REAL MA                            | priesis i con in je  | ,                 |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 320000            | 410.00       | 92.95     | 99.57                                 | 95.52     | 99.65     | 0.000417   | 2.25     | 182.22           | 40.31     | 0.19         |
| North Main                              | reach 4  | 320000            | 573.00       | 92.95     | 101.16                                | 96.08     | 101.24    | 0.000341   | 2.28     | 250.98           | 46.39     | 0.17         |
| North Main                              | reach 4  | 320000            | 770.00       | 92.95     | 102.66                                | 96.67     | 102.74    | 0.000306   | 2.37     | 324.79           | 52.12     | 0.17         |
| North Main                              | reach 4  | 320000            | 1392.00      | 92.95     | 105.50                                | 98.13     | 105.63    | 0.000333   | 2.85     | 488.63           | 63.07     | 0.18         |
| 3.78 1.00                               | odata e e awa s  | Facility of       |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 318000            | 410.00       | 91.12     | 98.87                                 | 93.95     | 98.94     | 0.000306   | 2.05     | 200.37           | 39.67     | 0,18         |
| North Main                              | reach 4  | 318000            | 573.00       | 91.12     | 100.58                                | 94.56     | 100.65    | 0.000259   | 2.10     | 273.15           | 45.76     | 0.15         |
| North Main                              | reach 4  | 318000            | 770.00       | 91.12     | 102.12                                | 95.19     | 102.20    | 0.000244   | 2.21     | 348.07           | 51.27     | 0.15         |
| North Main                              | reach 4  | 318000            | 1392.00      | 91.12     | 104.88                                | 96.76     | 105.00    | 0.000297   | 2.77     | 503.02           |           |              |
| TWO GT WILLET                           | IIOGEAI T  | 1310000           | 1392.00      | 91.12     | 104.00                                | 30.76     | 105.00    | 0.000297   | 2.77     | 303.02           | 61.12     | 0.17         |
| North Main                              |  | 047600            | 140.00       |           | 00.70                                 | 24.40     | 20.70     | 0.000000   | 2.04     | 004.54           | 40.74     |              |
| North Main                              | reach 4  | 317530            | 410.00       | 91.23     | 98.72                                 | 94.19     | 98.79     | 0.000330   | 2.04     | 201.31           | 43.71     | 0.17         |
|   | reach 4  | 317530            | 573.00       | 91.23     | 100.46                                | 94.78     | 100.52    | 0.000256   | 2.02     | 283.94           | 51.52     | 0.15         |
| North Main                              | reach 4  | 317530            | 770.00       | 91.23     | 102.02                                | 95.39     | 102.08    | 0.000228   | 2.08     | 369.59           | 58.52     | 0.15         |
| North Main                              | reach 4  | 317530            | 1392.00      | 91.23     | 104.78                                | 96.87     | 104.86    | 0.000261   | 2.54     | 547.10           | 70.81     | 0.16         |
|   |  |                   | $\vdash$     |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 317452            | 410.00       | 91.23     | 98.70                                 | 94.20     | 98.76     | 0.000335   | 2.05     | 200.14           | 43.59     | 0.17         |
| North Main                              | reach 4  | 317452            | 573.00       | 91.23     | 100.44                                | 94.78     | 100.50    | 0.000259   | 2.03     | 282.88           | 51.42     | 0.15         |
| North Main                              | reach 4  | 317452            | 770.00       | 91.23     | 102.00                                | 95.39     | 102.07    | 0.000230   | 2.09     | 368.52           | 58.44     | 0.15         |
| North Main                              | reach 4  | 317452            | 1392.00      | 91.23     | 104.74                                | 96.87     | 104.84    | 0.000263   | 2.55     | 545.81           | 70.72     | 0.16         |
| - A 1 - NAW                             | Market Strategy  | 54.29°C 2         |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 4  | 317000            | 410.00       | 90.93     | 98.54                                 | 93.87     | 98.81     | 0.000347   | 2.14     | 191.70           | 39.29     | 0.17         |
| North Main                              | reach 4  | 317000            | 573.00       | 90.93     | 100.31                                | 94.48     | 100.38    | 0.000277   | 2.15     | 287.13           | 45.81     | 0.16         |
| North Main                              | reach 4  | 317000            | 770.00       | 90.93     | 101.88                                | 95.12     | 101.96    |            | 2.24     | 343.49           | 51.59     |              |
| North Main                              | reach 4  | 317000            | 1392.00      | 90.93     | 104.59                                | 98.66     | 104.71    | 0.000310   | 2.60     | 498.84           | 61.57     | 0.17         |
| 1 See 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P-161:   | Physic .          | L            |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 2  | 157900            | 40.00        | 90.87     | 92.00                                 | 91.41     | 92.05     | 0.001841   | 1.80     | 22.17            | 21.98     | 0.32         |
| North Main                              | reach 2  | 157900            | 100.00       | 90.87     | 92.66                                 | 91.84     | 92.77     | 0.002313   | 2.65     | 37.72            | 24.65     | 0.38         |
| North Main                              | reach 2  | 157900            | 188.00       | 90.87     | 95.40                                 | 92.32     | 95.44     | 0.000289   | 1.56     | 120.44           | 35.70     | 0.15         |
| North Main                              | reach 2  | 157900            | 515.00       | 90.87     | 97.21                                 | 93.55     | 97.32     | 0,000598   | 2.69     | 191.51           | 42.97     | 0.22         |
| 2-7-1                                   |  |                   |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 2  | 157768            | 40.00        | 90.87     | 91.42                                 | 91.34     | 91.59     | 0.014955   | 3.35     | 11.94            | 22.67     | 0.81         |
| North Main                              | reach 2  | 157788            | 100.00       | 90.87     | 92.31                                 | 91.74     | 92.45     | 0.003575   | 2.99     | 33.49            | 25.30     |              |
| North Main                              | reach 2  | 157788            | 188,00       | 90.87     | 95.38                                 | 92.18     | 95.42     |            | 1.51     | 124.58           | 34.57     | 0.14         |
| North Main                              | reach 2  | 157788            | 515.00       | 90.87     | 97.15                                 | 93.35     | 97.26     |            | 2.67     | 192.89           | 42.38     |              |
|   |  | 1                 |              |           | 51.10                                 | 30.00     |           |            |          |                  | -2.00     | 1            |
| North Main                              | reach 2  | 157777            | Inline Weir  |           |                                       |           |           |            |          |                  |           | <del> </del> |
| , -July mail                            | T-Street A.  | 1.0777            | mand seed    |           | ***                                   |           |           |            |          |                  |           | <del> </del> |
| North Main                              | reach 2  | 157707            | 40.00        | 88.33     | 89.90                                 | 89.21     | 89.97     | 0.002111   | 2.10     | 19.01            | 16.28     | 0.34         |
| North Main                              | reach 2  |                   | 100.00       | 88.33     | 92.31                                 | 89.77     | 92.34     | 0.002311   | 1.43     | 69.99            | 26.04     | <del></del>  |
| North Main                              |  | 157707            |              | 68.33     | 95.37                                 | 90.36     | 95.39     | 0.000331   | 1.12     | 168.32           | 38.01     |              |
|   | reach 2  | 157707            | 188.00       |           |                                       |           |           |            |          |                  |           | <del></del>  |
| North Main                              | reach 2  | 157707            | 515.00       | 88.33     | 97.15                                 | 91.83     | 97.22     | 0.000300   | 2.13     | 241.71           | 44.87     | 0.16         |
| N-4-14                                  |  | 1                 | <del> </del> |           |                                       |           |           | 0.0000     |          |                  |           |              |
| North Main                              | reach 2  | 157442            | 40.00        | 87.38     | 89.87                                 | 88.30     | 89.70     |            | 1.34     | 29.85            | 18.32     |              |
| North Main                              | mech 2   | 157442            | 100.00       | 87.38     | 92.28                                 | 88.88     | 92.28     |            | 1.10     | 91.01            | 28.83     |              |
| North Main                              | reach 2  | 157442            | 188.00       | 87.38     | 95.36                                 | 89.49     | 95.37     |            | 0.94     | 199.76           | 41.37     |              |
| North Main                              | reach 2  | 157442            | 515.00       | 87.38     | 97.09                                 | 91.01     | 97.15     | 0.000209   | 1.86     | 277.50           | 48.25     | 0.14         |
| THOUGH THOMP                            |  |                   |              |           |                                       |           |           |            |          |                  |           |              |
| North Main                              | reach 2  | 157290            | 40.00        | 87.38     | 89.57                                 | 68.30     | 89.60     | 0.000663   | 1.42     | 28.10            | 17.93     | 0.20         |

| River                                     | Reach                                    | River Sta        | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area | Top Width      | Froude # Chi |
|---|--|------------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-----------|----------------|--------------|
| V., 12.5                                  |  | 4                | (cfs)              | (ft)           | (ff)           | (ft)           | (ft)           | (ft/ft)    | (fi/e)       | (sq ft)   | (ft)           |              |
| North Main                                | reach 3 (south)                          | 299378           | Inline Weir        |                |                |                |                |            |              |           |                |              |
| 30 10 10 10 10 10 10 10 10 10 10 10 10 10 |  |                  |                    |                |                |                |                |            |              |           |                |              |
| Vorth Main                                | reach 3 (south)                          | 299365           | 569.00             | 83.41          | 89.69          | 85.93          | 89.81          | 0.000576   | 2.74         | 207.54    | 43.06          | 0.2          |
| Vorth Main                                | reach 3 (aouth)                          | 299365           | 889.00             | 83.41          | 91.46          | 86.72          | 91.61          | 0.000559   | 3.08         | 288.53    | 48.65          | 0.22         |
| Vorth Main<br>Vorth Main                  | reach 3 (south)                          | 299365           | 1298.00            | 83.41          | 93.27          | 87.58          | 93.45          | 0.000548   | 3.40         | 381.83    | 54.28          | 0.23         |
| WALLI MIZELL                              | reach 3 (south)                          | 299365           | 2652.00            | 83.41          | 96.44          | 89.77          | 96.78          | 0.000774   | 4.67         | 588.43    | 64.49          | 0.28         |
| Vorth Makr                                | reach 3 (south)                          | 298000           | 500.00             |                |                |                |                |            |              |           |                |              |
| Vorth Main                                | reach 3 (south)                          | 298000           | 569.00             | 81.06          | 89.31          | 83.76          | 89.36          | 0.000196   | 1.81         | 314.52    | 55.58          | 0.18         |
| iorth Main                                | reach 3 (south)                          | 296000           | 889.00             | 81.06          | 91.06          | 84.53          | 91.13          | 0.000219   | 2.13         | 417.90    | 62.70          | 0.15         |
| lorih Main                                | reach 3 (south)                          | 298000           | 1298.00<br>2652.00 | 81.06<br>81.06 | 92.87          | 85.37          | 92.96          | 0.000235   | 2.41         | 537.60    | 70.05          | 0.16         |
|   | 12 2 2                                   |                  | 2032.00            | 81.00          | 95.82          | 87.47          | 96.01          | 0.000381   | 3.48         | 762.64    | 82.10          | 0.20         |
| lorth Main                                | reach 3 (south)                          | 297659           | 569.00             | 81.21          | 89.26          | 90.77          |                |            |              |           |                |              |
| orth Main                                 | reach 3 (south)                          | 297659           | 889.00             | 61.21          | 91.00          | 83.77<br>84.51 | 89.30<br>91.06 | 0.000185   | 1.64         | 345.97    | 62.94          | 0.12         |
| lorth Main                                | reach 3 (south)                          | 297669           | 1298.00            | 81.21          | 92.81          | 65.28          | 92.88          | 0.000178   | 1.92         | 462.05    | 70.12          | 0.13         |
| lorth Main                                | reach 3 (south)                          | 297859           | 2652.00            | 81.21          | 95.73          | 87.23          | 95.88          | 0.000307   | 2.18<br>3.15 | 595.10    | 77.62          | 0.14         |
|   |  |                  |                    |                |                |                | 30.00          | 0.000307   | 3.13         | 840.66    | 90.28          | 0.18         |
| korth Main                                | reach 3 (south)                          | 297557           | 569,00             | 81.21          | 89.24          | 83.77          | 89.28          | 0.000166   | 1.65         | 344.89    | 62.87          | 0.12         |
| lorth Main                                | reach 3 (aouth)                          | 297557           | 889.00             | 81.21          | 90.98          | 84.51          | 91.04          | 0.000180   | 1.93         | 460.74    | 70.04          | 0.12         |
| lorth Main                                | reach 3 (south)                          | 297557           | 1298.00            | 81.21          | 92.79          | 85.28          | 92.86          | 0.000190   | 2.19         | 593.56    | 77.53          | 0.13         |
| lorth Main                                | reach 3 (south)                          | 207557           | 2652.00            | 81.21          | 95.70          | 87.23          | 95.85          | 0.000310   | 3,17         | 837.70    | 90.14          | 0.18         |
|   | (KAS)                                    |                  |                    |                |                |                |                |            |              |           | - 33.11        |              |
| lorth Main                                | reach 3 (south)                          | 296000           | 569.00             | 80.22          | 89.01          | 82.79          | 89.05          | 0.000133   | 1.58         | 360.63    | 58.13          | 0.11         |
| lorth Main                                | reach 3 (south)                          | 296000           | 889.00             | 80.22          | 90,72          | 83.57          | 90.78          | 0.000160   | 1.91         | 465.01    | 64.06          | 0.13         |
| lorth Main                                | reach 3 (south)                          | 296000           | 1298.00            | 80.22          | 92.49          | 84.40          | 92.57          | 0.000181   | 2.22         | 583.95    | 70.23          | 0.14         |
| lorth Main                                | reach 3 (south)                          | 296000           | 2652.00            | 80.22          | 95.34          | 86.38          | 95.43          | 0.000218   | 2.73         | 2012.02   | 1190.66        | 0.15         |
| orth Main                                 | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | Bode-2           |                    |                |                |                |                |            |              |           |                |              |
| orth Main<br>orth Main                    | reach 3 (south)                          | 294000           | 589.00             | 80.54          | 88.69          | 83.32          | 88.73          | 0.000186   | 1.75         | 324.64    | 58.20          | 0.13         |
| orth Main                                 |  | 294000           | 889.00             | 80.54          | 90.34          | 84.09          | 90.41          | 0.000210   | 2.09         | 425.78    | 84.00          | 0.14         |
| orth Main                                 | reach 3 (south)                          | 294000           | 1298.00            | 80.54          | 92.07          | 84.89          | 92.16          | 0.000229   | 2.40         | 541.46    | 70.05          | 0.15         |
| Oracjana)                                 | Treating (South)                         | 294000           | 2652.00            | 80.54          | 94.63          | 86.85          | 94.84          | 0.000416   | 3.62         | 733.03    | 79.39          | 0.21         |
| orth Main                                 | reach 3 (south)                          | 292000           | 569.00             | 00.24          |                |                |                |            |              |           |                |              |
| orth Main                                 | reach 9 (south)                          | 292000           | 889.00             | 80.24          | 88.35          | 82.68          | 88.39          | 0.000160   | 1.64         | 347.83    | 62.15          | 0.12         |
| orth Main                                 | reach 3 (south)                          | 292000           | 1298.00            | 80.24          | 89.95          | 83.43          | 90.01          | 0.000185   | 1.97         | 452.09    | 67.65          | 0.13         |
| orth Main                                 | reach 3 (south)                          | 292000           | 2652.00            | 80.24          | 91.64          | 84.23<br>86.21 | 91.72          | 0.000203   | 2.27         | 571.30    | 73.44          | 0.14         |
|   | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 | No. 24 (4.1)     | 2502,00            | 30.24          | 30.00          | 00.21          | 94.00          | 0.000416   | 3.59         | 737.90    | 80.87          | 0.21         |
| orth Main                                 | reach 3 (south)                          | 290823           | 569.00             | 80.24          | 89.14          | 82.70          | 88.18          | 0.000189   | 170          |           |                |              |
| orth Main                                 | reach 3 (south)                          | 290823           | 889.00             | 80.24          | 89.70          | 83.46          | 89.77          | 0.000189   | 1.76         | 324.13    | 58.83          | 0.13         |
| orth Main                                 | reach 3 (south)                          | 290823           | 1298.00            | 80.24          | 91.37          | 84.26          | 91.46          | 0.000224   | 2.11         | 422.02    | 65.92          | 0.15         |
| orth Main                                 | reach 3 (south)                          | 290823           | 2652.00            | 80.24          | 93.41          | 86.27          | 93.53          | 0.000247   | 3.15         | 537.99    | 73.44          | 0.16         |
| Tar Priller                               |  | 10 Sept 2003     |                    |                |                |                | 30.35          | 0.000330   | 3.15         | 1414.73   | 529.95         | 0.19         |
| orth Main                                 | reach 3 (south)                          | 290745           | 569.00             | 80.24          | 88.12          | 82.70          | 88.17          | 0.000190   | 1.76         | 323.24    | 58.77          | 0.12         |
| orth Main                                 | reach 3 (south)                          | 290745           | 889.00             | 80.24          | 89.69          | 83.46          | 89.76          | 0.000228   | 2.11         | 420.84    | 65.84          | 0.13<br>0.15 |
| orth Mein                                 | reach 3 (south)                          | 290745           | 1298.00            | 80.24          | 91.35          | 84.27          | 91.44          | 0.000248   | 2.42         | 536.53    | 73.35          | 0.15         |
| orth Main                                 | reach 3 (south)                          | 290745           | 2652.00            | 80.24          | 93.38          | 86.27          | 93.50          | 0.000385   | 3.14         | 1399.83   | 528,53         | 0.20         |
|   |  |                  |                    |                |                |                |                |            |              | - 100755  | - GEG.550      | 0.20         |
| orth Main                                 | reach 3 (south)                          | 290000           | 569.00             | 80.24          | 88.00          | 82.40          | 88.04          | 0.000158   | 1.65         | 344.71    | 59.01          | 0.12         |
| orth Main                                 | reach 3 (south)                          | 290000           | 889.00             | 80.24          | 89.54          | 83.10          | 89.60          | 0.000192   | 2.02         | 439.75    | 64,45          | 0.14         |
| orth Main                                 | reach 3 (south)                          | 290000           | 1298.00            | 80.24          | 91.18          | 83.85          | 91.27          | 0.000219   | 2.36         | 550.41    | 70.27          | 0.15         |
| orth Main                                 | reach 3 (south)                          | 290000           | 2652.00            | 80.24          | 93.12          | 85.78          | 93.24          | 0.000322   | 3.12         | 1783.28   | 1147.92        | 0.18         |
| arch Marin                                |  | Anna I           |                    |                |                |                |                |            |              |           |                |              |
| orth Mein<br>orth Mein                    | reach 3 (south)                          | 288232           | 569.00             | 80,38          | 87.69          | 82.52          | 87.74          | 0.000183   | 1.71         | 332.27    | 61.39          | 0.13         |
| orth Main                                 | reach 3 (south)                          | 288232<br>288232 | 889.00             | 80,38          | 89.17          | 83.21          | 89.24          | 0.000222   | 2.08         | 427.44    | 67.79          | 0.15         |
| orth Main                                 | reach 3 (south)                          | 288232           | 1298.00<br>2652.00 | 80.38          | 90.77          | 83.94          | 90.66          | 0.000246   | 2.40         | 541.32    | 74.73          | 0.16         |
| 3.1.100 I                                 | react o facility                         | 200232           | 2032.00            | 80.38          | 92.71          | 85.85          | 92,76          | 0.000203   | 2.39         | 3217.41   | 2435.99        | 0.15         |
| orth Main                                 | reach 3 (south)                          | 268165           | 569.00             | 80.38          | 27.00          | 00.55          |                | 0.05515    |              |           |                |              |
| orth Main                                 | reach 3 (south)                          | 288165           | 889.00             | 80.38          | 87.68<br>89.15 | 82.52<br>83.21 | 87.73          | 0.000184   | 1.72         | 331.50    | 61.33          | 0.13         |
| rth Main                                  | reach 3 (south)                          | 288165           | 1298.00            | 80.38          | 90.75          | 83.21          | 89,22          | 0.000223   | 2.08         | 426.40    | 67.72          | 0.15         |
| rth Main                                  | reach 3 (south)                          | 288165           | 2652.00            | 80.38          | 92.70          | 85.85          | 90.84<br>92.75 | 0.000248   | 2.40         | 540.05    | 74.66          | 0.16         |
| v grala                                   |  | rania da l       |                    |                |                |                | az.13          | 0.000200   | 2.40         | 3195.91   | 2421.62        | 0.15         |
| rth Main                                  | reach 3 (south)                          | 288000           | 569.00             | 80.38          | 87.63          | 82.62          | 87.69          | 0.000237   | 1.95         | 291.92    | 52.91          | 0.45         |
| rth Main                                  | reach 3 (south)                          | 298000           | 889.00             | 80.38          | 89.09          | 83.34          | 89.18          | 0.000293   | 2.39         | 372.39    | 52.81<br>57.85 | 0.15<br>0.17 |
| rth Main                                  | reach 3 (south)                          | 288000           | 1298.00            | 80.38          | 90.67          | 84.14          | 90,79          | 0.000331   | 2.77         | 468.24    | 63.34          | 0.17         |
| rth Main                                  | reach 3 (south)                          | 268000           | 2652.00            | 80.38          | 92,70          | 86.17          | 92.71          | 0.000149   | 1.30         | 5083.19   | 3049.28        | 0.18         |
|   | DESCRIPTION OF                           |                  |                    |                |                |                |                |            |              |           | 20.0.20        | V.11         |
| rth Main                                  | reach 3 (aouth)                          | 286897           | 1044.00            | 80.37          | 87.19          | B2.89          | 87.30          | 0.000456   | 2.68         | 389.81    | 73.49          | 0.20         |
| th Main                                   | reach 3 (south)                          | 286897           | 1567.00            | 80.37          | 88.56          | 83.65          | 88.71          | 0.000522   | 3.17         | 495.03    | 80.15          | 0.22         |
| th Main                                   | reach 3 (south)                          | 286897           | 2228.00            | 80.37          | 90.09          | 84.48          | 90.29          | 0.000549   | 3.58         | 623.08    | 86.90          | 0.24         |
| th Main                                   | reach 3 (south)                          | 286897           | 4412.00            | 80.37          | 92.30          | 86.61          | 92.42          | 0.000458   | 3.43         | 3237,59   | 2071.95        | 0.22         |
| ab 9 8 1                                  |  | 10 (3) 12 × 15 ° |                    |                |                |                |                |            |              |           |                |              |
| rth Main                                  | reach 3 (south)                          | 286000           | 1044.00            | 80.36          | 86.65          | 82.98          | 86.81          | 0.000659   | 3.13         | 333,79    | 65.67          | 0.24         |
| rth Main                                  | reach 3 (south)                          | 286000           | 1567.00            | 80.36          | 87.93          | 83.74          | 88.14          | 0.000763   | 3.72         | 420,77    | 70.79          | 0.27         |
| rth Main<br>rth Main                      | reach 3 (south)                          | 286000           | 2228.00            | 80.36          | 89.42          | 84.58          | 89.69          | 0.000797   | 4.20         | 530,32    | 76.49          | 0.28         |
| THE INTERPO                               | reach 3 (south)                          | 286000           | 4412.00            | 80.36          | 91.58          | 86.76          | 91.86          | 0.000818   | 4.79         | 2375,36   | 2202.79        | 0.29         |
| rth Main                                  | reach 3 (south)                          | 284529           | 1044.00            | 20.00          |                |                |                |            |              |           |                |              |
| rın Main<br>rih Main                      | reach 3 (south)                          | 284529<br>284529 | 1044.00            | 80.36          | 83.43          | 83.06          | 84.33          | 0.009023   | 7.61         | 137.11    | 51.53          | 0.82         |
| rth Main                                  | reach 3 (south)                          | 284529           | 1567.00            | 80.36          | 85.29          | 83.84          | 85.95          | 0.003854   | 6.51         | 240.78    | 59.95          | 0.57         |
| rth Main                                  |  | 284529           | 2228.00            | 80.36          | 87.18          | 84.71          | 87.77          | 0.002406   | 6.14         | 362.72    | 68,72          | 0.47         |
| - 17-4011                                 |  |                  | 4412.00            | 80.36          | 90.51          | 86.91          | 90.58          | 0.000837   | 2.97         | 3269.05   | 2199.42        | 0.27         |
|   | the second of the Salah                  | 284517           |                    |                |                |                |                |            |              |           |                |              |

| River   | Reach  | River Sta            | Q Total     | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope  | Vei Chnl | Flow Area | Top Width | Froude # Chi |
|---|--|----------------------|-------------|-----------|-----------|-----------|-----------|-------------|----------|-----------|-----------|--------------|
| 47  |  |                      | (cts)       | (ft)      | (ft)      | (ft)      | (R)       | (ft/ft)     | (ft/s)   | (sq ft)   | (ft)      |              |
| J 111/4   | 1 1887 - 1 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                      |             |           |           |           |           |             |          |           |           |              |
| iorth Main  | reach 3 (south)                                | 284500               | 1044.00     | 74.78     | 83.42     | 77.76     | 83.51     | 0.000307    | 2.48     | 421.04    | 64.98     | 0.17         |
| orth Main   | reach 3 (south)                                | 284500               | 1587.00     | 74.78     | 85.28     | 78.62     | 85.41     | 0.000331    | 2.86     | 548.61    | 71.88     | 0.18         |
| orth Main   | reach 3 (south)                                | 284500               | 2228.00     | 74.78     | 87.17     | 79.55     | 87.33     | 0.000353    | 3.22     | 691.18    | 79.89     | 0.19         |
| orth Main   | reach 3 (south)                                | 284500               | 4412.00     | 74.78     | 90.50     | 81.95     | 90.57     | 0.000429    | 2.58     | 3622.57   | 2201.84   | 0.20         |
| en en en en en en en en en en en en en e  | <b>分别定债表为</b> 实                                | de per ester         |             |           |           |           |           |             |          |           |           |              |
| orth Main   | reach 3 (south)                                | 284287               | 1044.00     | 74.78     | 83.33     | 77.89     | 83.44     | 0.000369    | 2.68     | 388.89    | 60.65     | D.19         |
| orth Main   | reach 3 (south)                                | 284287               | 1567.00     | 74.78     | 85,18     | 78.79     | 85.33     | 0.000396    | 3.09     | 507.39    | 67.19     | 0.20         |
| lorth Main  | reach S (south)                                | 284287               | 2228.00     | 74.78     | 87.06     | 79.75     | 87.25     | 0.000422    | 3.48     | 639.95    | 73.82     | 0.21         |
| lorth Main  | reach 3 (south)                                | 284287               | 4412.00     | 74.78     | 90.39     | 82.22     | 90.46     | 0.000594    | 2.51     | 3314,31   | 2077.42   | 0.22         |
| ALLEY SIG   | TO THE PROPERTY OF                             | Factor of the second |             |           |           |           |           |             |          |           |           |              |
| lorth Main  | reach 3 (south)                                | 284201               | 1044.00     | 74.78     | 83.29     | 77.89     | 83.40     | 0.000376    | 2.70     | 386.48    | 60.51     | 0.19         |
| lorth Main  | reach 3 (south)                                | 284201               | 1567.00     | 74.78     |           | 78.79     | 85,29     | 0.000403    | 3.11     | 504.58    | 67.04     | 0.20         |
| lorth Main  | reach 3 (south)                                | 284201               | 2228.00     | 74.78     | 87.02     | 79.75     | 87.21     | 0.000428    | 3.50     | 636.72    | 73.67     | 0.21         |
| orth Main   | reach 3 (south)                                | 284201               | 4412.00     | 74.78     | 89.99     | 82.22     | 90.33     | 0.002038    | 4.68     | 942.80    | 237.58    | 0.41         |
|   |  |                      |             |           |           |           |           |             |          |           |           |              |
| orth Main   | reach 3 (south)                                | 284000               | 1044.00     | 73.32     | 83.23     | 77.22     | 83.33     | 0.000305    | 2.44     | 427.34    | 66,52     | 0.17         |
| orth Main   | reach 3 (south)                                | 284000               | 1567.00     | 73.32     | 85.09     | 78.40     | 85.21     | 0.000325    | 2.82     | 558.57    | 73.05     | 0.16         |
| orth Main   | reach 3 (south) 🤏                              | 284000               | 2228.00     | 73.32     |           | 79.45     | 87.12     | 0.000346    | 3.18     | 699.88    | 79.59     | 0.18         |
| orth Main   | reach 3 (south)                                | 264000               | 4412.00     | 73.32     | 89.79     | 81.75     | 90.13     | 0.000602    | 4.70     | 938.35    | 89.41     | 0.20         |
|   |  |                      |             |           |           |           |           |             |          |           |           |              |
| orth Mairi  | reach 3 (south)                                | 282000               | 1044.00     | 73.33     | 82.71     | 76.35     | 82.79     | 0.000235    | 2.26     | 462.37    | 66.88     | 0.18         |
| orth Main   | reach 3 (south)                                | 282000               | 1587.00     | 73.33     |           | 77.22     | 84.61     | 0.000272    | 2.88     | 588.16    | 73.65     | 0.17         |
| orth Main   | reach 3 (south)                                | 282000               | 2228.00     | 73.33     |           | 78.15     | 86.48     | 0.000304    | 3.05     | 729.45    | 80.57     | 0,1          |
| orth Main   | reach 3 (south)                                | 282000               | 4412.00     | 73.33     | 88.53     | 80.56     | 88.89     | 0.000842    | 4.82     | 915.22    | 88.85     | 0.2          |
| A 18 199  |  | 499 gar 489          |             |           |           |           |           |             |          |           |           |              |
| orth Main   | reach 3 (south)                                | 280327               | 1044.00     | 73,32     |           | 76.48     | 82.34     | 0.000311    | 2.49     | 419.60    |           | 0.1          |
| orth Main   | reach 3 (south)                                | 280327               | 1587.00     | 73.32     |           | 77.37     | 84.09     |             | 2.91     | 537.61    | 72.20     | 0.1          |
| orth Main   | reach 3 (south)                                | 280327               | 2228.00     | 73.32     | 85.73     | 78.34     | 85.90     |             | 3.32     | 671.85    |           | 0.2          |
| orth Main 🐇   | reach 3 (south)                                | 280327               | 4412.00     | 73.32     | 87.82     | 80.79     | 87.97     | 0.000416    | 3.82     | 2753.43   | 1286,08   | 0.2          |
| . 11 1156   | 4 g-8, 30 5 Didd                               |                      |             |           |           |           |           |             |          |           |           |              |
| orth Main   | reach 3 (south)                                | 280263               | 1044.00     | 73.32     | 82.22     | 76.48     | 82.32     | 0.000314    | 2.50     | 418.26    |           | 0.1          |
| ortit Main  | reach 3 (south)                                | 280263               | 1567.00     | 73.32     | 83.94     | 77.37     | 84.07     | 0.000357    | 2.92     | 535.90    |           | 0.1          |
| orth Main   | reach 3 (south)                                | 260263               | 2228.00     | 73.32     | 85.70     | 78.34     | 85.88     | 0.000395    | 3.33     | 689.74    |           | 0.2          |
| orth Main   | reach 3 (south)                                | 280263               | 4412.00     | 73.32     | 87.79     | 80.78     | 87.94     | 0.000427    | 3.67     | 2712.52   | 1265.06   | 0.2          |
| . 45 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 May 18 M | And the second                                 |                      |             |           |           | <u> </u>  |           |             | L        |           |           |              |
| orth Main   | reach 3 (south)                                | 280000               | 1044,00     | 73.32     | 82.14     | 76.38     | 82.24     | 0.000307    | 2.49     | 418.66    | 83.76     | 0.1          |
| orth Main   | reach 3 (south)                                | 280000               | 1587.00     | 73,32     | 83.84     | 77.25     | 83.97     | 0.000354    | 2.94     | 532.46    | 70.04     | 0.1          |
| orth Main   | reach 3 (south)                                | 280000               | 2228.00     | 73,32     | 85.59     | 78.21     | 85.77     | 0.000395    | 3.37     | 681.03    | 76.52     | 0.2          |
| orth Main   | reach 3 (south)                                | 280000               | 4412.00     | 73.32     | 87.68     | 80.64     | 87.83     | 0.000410    | 3.73     | 2699.48   | 1203.64   | 0.2          |
| · 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 11 PS 12 11 11 11 11 11 11 11 11 11 11 11 11   |                      |             |           |           |           |           |             |          |           |           |              |
| orth Main   | reach 3 (south)                                | 278000               | 1044.00     | 73.32     | 81.32     | 76.63     | 81.46     | 0.000504    | 2.96     | 352.16    | 60.61     | 0.2          |
| orth Main   | reach 3 (south)                                | 278000               | 1587.00     | 73.32     | 82.90     | 77.54     | 83.09     | 0.000563    | 3.48     | 452.96    | 66.82     | 0.2          |
| orth Main   | reach 3 (south)                                | 278000               | 2228.00     | 73.32     | 84.56     | 78.50     | 84.80     | 0.000610    | 3.91     | 569.40    | 73.87     | 0.2          |
| orth Main   | reach 3 (south)                                | 278000               | 4412.00     | 73.32     | 87.10     | 80.94     | 87.16     | 0.000254    | 2.81     | 4149.13   | 1754.65   | 0.1          |
| 30 THE RES  | a delete a servera                             | Burgassian.          |             |           |           |           |           |             |          |           |           |              |
| orti Main   | reach 3 (south)                                | 276000               | 1044.00     | 74.04     | 80.06     | 76.67     | 80.25     | 0.000745    | 3.27     | 319,66    | 64.43     | 0.2          |
| lorth Main  | reach 3 (south)                                | 278000               | 1567.00     | 74.04     | 81.56     | 77.41     | 81.78     | 0.000765    | 3.74     | 419.02    | 69.84     | 0.2          |
| orth Main   | (duos) & riceer                                | 278000               | 2228.00     | 74.04     | 83.16     | 78.25     | 83.43     | 0.000769    | 4.16     | 535.17    | 7 75.75   | 0.2          |
| orth Main   | reach 3 (south)                                | 276000               | 4412.00     | 74.04     | 85.50     | 80.41     | 86.00     | 0.001695    | 5.98     | 737.30    | 110.50    | 0.4          |
| 12 1 1 1 1 1 1 1 1 1  | - 1890 MASS - 2 180 A                          | \$ \$9878 AUS (\$672 |             |           |           |           |           |             |          |           |           |              |
| lorth Main  | reach 3 (south)                                | 275122               | 1044.00     | 74.04     | 78.74     | 76.94     | 79.10     | 0.002514    | 5.01     | 208.44    | 4 55.86   | 0.4          |
| orth Main   | reach 3 (south)                                | 275122               | 1567.00     | 74.04     | 4 80.36   | 77.75     | 80.7      | 0.001874    | 5.15     | 304.2     | 7 61.91   | 0.4          |
| orth Main   | reach 3 (south)                                | 275122               | 2228.00     |           |           |           |           |             |          |           | 2 67.42   | 0.5          |
| orth Main   | reach 3 (south)                                | 275122               | 4412.00     |           |           |           |           |             | 6,18     | 1661.3    | 2 1565.60 | 0.           |
| - My ( ) W  | A TOTAL YOUR                                   | * S.A. Arriva        |             |           | 1         |           |           |             |          |           |           |              |
| lorth Main  | reach 3 (south)                                | 275113               | Inline Weir |           |           |           |           |             |          |           |           |              |
| 4421 1111   | to the second                                  | E CANAL Y            |             |           |           |           |           |             |          |           |           |              |
| forth Main  | reach 3 (south)                                | 275102               | 1044.00     | 70.2      | 8 78.7    | 73.20     | 78.8      | 0.00034     | 2.58     | 404.9     | 6 84.4    | 0.           |
| lorth Main  | reach 3 (south)                                | 275102               | 1567.00     |           | 174       |           |           | 0.00040     | 3.05     | 513.8     | 9 70.20   | 0.           |
| lorth Main  | reach 3 (south)                                | 275102               | 2228.00     |           |           |           |           | 0.00044     | 3.50     | 836.5     | 0 76.60   | 2 0.         |
| lorth Main  | reach 3 (south)                                | 275102               | 4412.00     |           |           |           |           |             | 4.75     | 1896.2    | 4 1683.3  | 0.           |
| 11.27   |  |                      |             |           |           |           |           |             |          |           |           |              |
| iorth Main  | reach 3 (south)                                | 274897               | 1044.00     | 70.2      | 8 78.7    | 72.1      | 7 78.7    | 7 0.00008   | 4 1.38   | 754.6     | 0 109.6   | 2 0.         |
| iorth Main  | reach 8 (south)                                | 274837               | 1587.00     |           |           |           |           | 1 0.00010   | 1 1.67   | 939.8     | 0 117.2   | 9 0.         |
| lorth Main  | reach S (south)                                | 274837               | 2228.00     |           |           | 8 73.3    | 82.1      | 2 0.00011   | 5 1.95   | 1143.7    | 6 124.4   | 1 0.         |
| lorth Main  | reach 3 (south)                                | 274837               | 4412.00     |           |           |           |           | 4 0.00017   | 0 2.59   | 3607.9    | 7 2501.8  | 9 0.         |
|   |  | 8                    | 1           |           | T         |           |           |             |          |           |           |              |
| lorth Main  | reach 3 (south)                                | 274000               | 1044.00     | 70.2      | 8 78.5    | 72.9      | 1 78.6    | 5 0.00025   | 0 2.24   | 465.3     | 8 72.0    |              |
| forth Main  | reach 3 (south)                                | 274000               | 1567.00     |           |           |           |           |             |          |           | 1 78.5    | 9 0.         |
| orth Main   | reach 3 (south)                                | 274000               | 2228.00     |           |           |           |           |             |          |           |           | 4 0          |
| lorth Main  | reach 3 (south)                                | 274000               | 4412.00     |           |           |           |           |             |          | -         |           | 1 0          |
|   | 7 6. 90 10 10 10 10 10                         | si kamanan ba        |             | 1         | 1         | 1         |           | 1           | 1        |           |           |              |
| Vorth Main  | reach 3 (south)                                | 272412               | 1044,00     | 70.2      | 8 78.2    | 1 72.6    | 7 78.2    | 8 0.00022   | 0 2.00   | 503.0     | 2 80.4    | 8 0          |
| Vorth Main  | reach 3 (south)                                | 272412               | 1587.00     |           |           |           |           |             |          |           |           |              |
| Vorth Main  | reach 3 (south)                                | 272412               | 2228.00     |           |           |           |           |             |          |           |           |              |
|   |  | 272412               | 4412.00     |           |           |           |           |             |          |           | _         |              |
| Vorth Main  | reach 3 (south)                                | 214414               | 4412.00     | /0.2      | ··· 02.7  | 70.2      | - 83.1    | 5.0073      | 7.0      | 3,0.0     | 1.55.0    | 1            |
|   |  | 071000               | 1000 0      | 70.2      | 77.8      | 8 73.0    | 2 77.8    | 2 0.00046   | 0 2.9    | 5 442.5   | 56 71.5   | 5 0          |
| North Main  | reach 3 (south)                                | 271000               | 1306.00     |           |           |           |           |             |          |           |           |              |
| North Main  | reach 3 (south)                                | 271000               | 1925.00     |           |           |           |           |             |          |           |           |              |
| North Main  | reach 3 (south)                                | 271000               | 2703.00     |           |           |           |           |             |          |           |           | _            |
| North Main  | (reach 3 (south)                               | 271000               | 5237.00     | 70.2      | 27 82.4   | 8 76.9    | 0 62.5    | (2) 0.00020 | 2.5      | a, 3/0/.5 |           | -, v         |

Plan: P. 25% Continu River Ste Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (H) (ft) (ft) (ft/ff) (sq ft) North Main each 2 118403 2355.00 70.00 81 80 76.04 82.11 0.000426 4.55 614.33 104,35 0.26 North Main ach 2 THAIR 4175.00 70.00 84 22 77.98 84.74 0.000568 6.08 1078.32 277 92 0.31 88.12 North Main each 2 116403 10250.00 70.00 86,76 82.86 0.001339 10.59 2470.12 852.57 0.49 70.00 79.35 73.29 79.45 0.000183 2.58 468.09 79.56 0.16 11816 1120.00 North Main each 2 82.01 North Main 2355.00 70.00 81.76 75.16 0.000318 4.06 701.64 119.00 0.22 ceach 2 4175.00 70.00 84.17 77.13 84 50 0.000440 5 49 1211.70 311.02 0.27 North Main teach 2 16161 North Main reach 2 118161 10250.00 70.00 86.62 82.12 87.76 0.001089 9.71 2573.42 867.45 0.44 79.16 74.01 79.28 0.000229 2.88 211,28 0.18 North Main reach 2 115322 1120.00 70.00 539.44 81.75 1868.84 North Main 2355.00 70.00 81.62 75.78 0.000228 3.45 755.07 0.19 reach 2 115322 4175.00 70.00 84.20 77.95 1257.05 0.18 North Main 15322 each 2 11457.03 worth Main 10250.00 70.00 86.97 82.27 87.08 0.000230 4548.97 0.20 North Main each 2 115218 1120.00 70.00 79.16 73.19 79.25 0.000159 2.53 602.83 174.11 0.15 North Main reach 2 115218 2355.00 70.00 81.60 74.98 81.72 0.000190 3.27 1815.93 711.52 0.17 84.27 115218 4175.00 84.18 77.05 0.000145 3.29 4287.04 1240.88 0.16 North Main reach 2 70.00 87.06 North Main 115218 10250.00 70.00 86.93 82.15 0.000228 4.68 11201.25 4476.68 reach 2 0.20 115057 1120.00 70.00 79.14 73.09 79.22 0.000141 2.39 1026 17 805 DB 0.14 North Main each 2 torth Main each 2 115057 2355 00 70.00 81,64 74.83 81.68 0.000084 2.18 4081.66 1668.65 0.12 each 2 North Main 115057 4175.00 70.00 84,22 76.81 84.24 0.000047 1.89 10196.87 3185.21 0.09 86,99 80.91 87.01 0.000049 North Main mach 2 115057 10250.00 70.00 2.18 22603.32 5737.53 0.09 Yorth Main 114848 72.89 79.19 0.000119 2.09 1099.54 920.03 1120.00 70.00 79,13 0.13 114848 2355.00 70.00 81,64 74.60 81.65 0.000048 1.60 5876.08 3202.49 0.09 sech 2 North Main nach 2 11484B 4175.00 70.00 84.21 76.48 84.22 0.000025 1.32 13174.70 5487.42 0.06 North Main ach 2 114848 10250.00 70.00 86,99 80,65 87.00 0.000031 1.68 26098.16 10585.81 0.07 North Main 114815 1120.00 70.00 79.08 72.77 79.15 0.000134 2.22 570.25 731.66 0.14 reach 2 North Main 81.62 74.43 0.000054 1.69 3302.68 0.09 reach 2 14615 2355.00 70.00 81.64 5687.43 114615 4175.00 70.00 84.21 76.24 84.21 0.000024 1.30 13469 48 5479.13 0.06 reach 2 North Main reach 2 114815 10250.00 70.00 86.99 80.98 87.00 0.000029 1.65 26867.81 10185.84 0.07 North Main reach 2 14600 Bridge 114585 79.05 72.77 79.13 0.000138 2.23 550.02 687 25 0.14 1120.00 70.00 North Main reach 2 North Main 114585 2355.00 70.00 81.60 74.43 81.62 0.000054 1.70 5658 68 3286 24 0.09 reach 2 North Main reach 2 114585 4175.00 70.00 84.19 76,24 84.20 0,000024 1.30 13472.95 5450.23 0.06 North Main reach 2 114685 10250.00 70.00 86.98 80.98 86.98 0.000029 1.64 26891.11 10156.17 0.07 0.000137 114500 79.04 72.77 79.12 2.23 543.56 672.45 0,14 North Mair reach 2 1120.00 70.00 81.62 North Main 114500 2355.00 70.00 81.59 74.43 0.000054 1.69 0.09 reach 2 5440.60 0.000023 1.27 13779.58 North Main reach 2 4175.00 70.00 84.18 76.24 84,19 0.06 86.97 North Main each 2 114500 10250.00 70.00 80.95 86,98 0.000028 1.61 27336.42 10142.02 0.07 72.96 0.000183 67.44 North Main ach 2 113500 1120 00 70 00 78 B6 78.96 2.52 456.52 0.16 81.54 2.30 4510.46 3315.50 **B1.49** 74.73 0.000102 0.13 North Main reach 2 113500 2355.00 70.00 113500 84.16 76.61 84,17 0.000024 1.30 14072.60 5485.41 0.06 North Main reach 2 4175.00 70.00 10546.34 113500 10250.00 70.00 81.62 86.95 0.000026 1.54 28057.25 0.07 North Main ach 2 North Main sach 3 (south) 315796 410.00 90.87 98 19 93 28 98 24 0.000261 1.92 213.14 41.35 0.15 each 3 (south) North Main 315798 573.00 90.87 100.03 93.83 100.09 0.000210 1.94 295.09 47.55 0.14 374.81 101,62 94.40 101.68 0.000198 2.05 52.89 0.14 North Main mach 3 (south 315796 770.00 90.87 0.000201 90.87 104.32 95.86 104.40 2.33 833.94 299.87 0.14 315796 1392.00 North Main each 3 (south) North Main each 3 (south) 315434 410.00 90.87 98 11 93.06 98.15 0.000188 1.64 249.95 49.43 0.13 North Main each 3 (south) 315434 573.00 90.87 99.98 93.55 100.02 0.000146 1.64 349.58 57.14 0 12 North Mair reach 3 (south 315434 770.00 90.87 101.57 94.08 101,62 0.000137 1.73 445.82 63.71 0.12 reach 3 (south) 4440.17 1324.78 North Main 315434 1392.00 90.87 104,36 95.42 104.36 0.000020 0.74 0.04 0.000414 315287 569.00 90.32 98.01 93.48 98.10 2.44 233.66 45.45 0.19 North Main reach 3 (south) North Main 889.00 90.32 99.86 94.34 99.97 0.000413 2.74 323.89 52.27 0.19 reach 3 (eouth) 315287 315287 1298.00 90.32 101.41 95.26 101,57 0.000467 3,17 409.54 58.09 0.21 North Mair each 3 (south North Main reach 3 (south) 572.89 69.01 315287 2652.00 90.32 103.98 97.50 104.32 0.000802 4,63 0.28 569.00 97.40 93.03 97.51 0.000507 2.67 213.51 41.89 0.21 314000 89.95 North Main reach 3 (south) 314000 889.00 89.95 99.2 93.94 99.39 0.000506 3.00 296.66 48.39 0.21 North Main reach 3 (south) North Main reach 3 (south) 314000 1298.00 89.95 100.70 94.90 100.89 0.000590 3.50 370 79 53.52 0.23 2652.00 89.95 102.5 97.28 103.03 0.001259 5.5B 475.57 60.03 0.35 North Main reach 3 (south 314000 89.95 97.33 93.03 97.44 0.000528 2.71 210.31 41.62 0.21 313862 569.00 North Main each 3 (south) 89.95 99.17 93,94 99.31 0.000523 3.03 292.98 48.12 0.22 889.00 313862 North Main reach 3 (south) 0.00061 3.55 366.06 53.21 0.24 1298.00 89.95 100.6 100.8 North Main 313862 reach 3 (south) 89.95 97.28 102.85 0.001350 5.72 463,40 59.31 0.36 North Main 2652.00 102.34 reach 3 (south) 44.40 North Main each 3 (south) 312000 569.00 89.03 96.49 91.86 96.58 0.00040 2.43 234,30 0.19 50.74 98.33 0.000410 2.76 321.65 0.19 North Mair reach 3 (south) 312000 889.00 89.03 92.72 98.45 100.21 0.000175 1.98 1974.41 1928.17 0.13 100.17 93.63 1298.00 89.03 North Main reach 3 (south) 312000 3258.17 102.52 0.000031 0.93 8452.60 0.06 89.03 102.52 95.91 2652.00 North Main reach 3 (south) 312000 57.19 North Main reach 3 (south) 311185 569.00 88.28 96.30 90.77 96.35 0.000194 1.79 318,63 0.13 ech 3 (south) 65.18

North Main

311165

889.00

88.28

98.13

91.55

98.20

0.000208

2.06

430,76

| Froude # Cht | rhbiW qoT        | FIOW Area        | Vel Chri     | E.G. Slope           | E.G. Elev       | CH W.S.          | W.S. Elev         | Min Ch El      | Material D        | ate tevifi | Plan: D 25%                            | SVCL Jahr                |
|--------------|------------------|------------------|--------------|----------------------|-----------------|------------------|-------------------|----------------|-------------------|------------|--|--------------------------|
| 771.377      | (y)              | (y be)           | (6/1)        | (NA)                 | (u)             | (11)             | (n)               | (#)            | (ela)             | 2 2 2      |  | 1 1 1 1 1 1              |
|              | S1.EY            | 90.788           | 2.33         | 0.000220             | 100.04          | 75.26            | 96.66             | 85.88          | 1298.00           | 281116     | (divos) & dasen                        | nisM rinoM               |
| 20.0         | 24.782C          | 71.28ET          | 71.1         | <b>€¥0000</b> .0     | 08.501          | 91.46            | 95.501            | 82.88          | 2652.00           | 201116     | (rituos) & rioses                      | niaM rithoM              |
| Er.0         | ₱1.72            | 78.71£           | 67.↑         | 261000.0             | ₱E.86           | 11.06            | 96.29             | 82.88          | 00.693            | ettite     | (rituos) & dosen                       | niaM rthoM               |
|              | \$1.29           | <b>429.84</b>    | 70.S         | 0.000209             | 61.86           | SS.16            | S1.89             | 85.88          | 00.688            | 811118     | (rituos) & dosen                       | nisM AhoM                |
|              | 80.ET            | 222.95           | 2.33         | 1SS000.0             | E0.001          | 75.59            | 96'66             | 85.88          | 1298.00           | 811116     | (rituos) & ribaan                      | North Main               |
| 20.0         | 16.7825          | 88.1857          | pt-t         | £\$0000.0            | 102.50          | SV 16            | 102.49            | 82.88          | 2652.00           | 811116     | (rimos) & rimes                        | niaM AnoM                |
| 31.0         | 16.84            | 285.74           | 66.1         | SES000.0             | 01.96           | 95.09            | 10.96             | 60.88          | 00.693            | 310000     | (reach 3 (south)                       | nisM rthoN               |
|              | 78.42            | 379.22           | PE.S         | £82000.0             | 26.76           | 9£.16            | <b>1/8</b> .76    | E0.88          | 00.668            | 310000     | (rituos) & rioser                      | misM righold             |
| 71.0         | 69.09            | 78.584           | 69.S         | 0.000269             | 27.99           | 52.23            | <b>C9</b> .66     | £0.88          | 1298.00           | 3100018    | (rituos) & riosen                      | nisM ritsoVi             |
| 80.0         | 3211.86          | 12.791-8         | EE.1         | 280000.0             | 102,44          | 24.46            | 102.43            | 50.88          | 2652.00           | 310000     | (rbuce) & rhosen                       | nish rinov               |
| ct.0         | 90.84            | 275.22           | 70.2         | 092000.0             | 09.26           | 90.26            | <b>175</b> '96    | £7.78          | 00'695            | 308000     | (disos) & dones                        | MISM ATTOM               |
| 41.0         | 87.E2            | 20.E9E           | 2.44         | 0.000294             | TE.79           | 70.16            | 7 <u>Z</u> .76    | £7.78          | 00.688            | 30800      | (dauce) & doesn                        | nieM rthoM               |
|              | 9P.62            | 28.184           | 18.2         | 825000.0             | E1.00           | 56.16            | 10.99             | ET.78          | 1298.00           | 308000     | (rituos) & ribaen                      | nisM rthoM               |
| 60.0         | 96.86.94         | 02.1595          | 88.1         | Z90000'0             | 82.201          | S1.46            | 102.26            | £7.78          | 2652,00           | 308000     | (rituos) & rioses                      | nisM ritroV              |
| er.o         | 06 117           | 87.1ES           | 2.45         | 614000.0             | <b>96.8</b> 9   | <b>48</b> .06    | 92.26             | ET. TB         | 00.692            | 307236     | (abuse) & chaen                        | risM dhoM                |
| 02.0         | 99.13            | 314.06           | 2.83         | 6110000              | 60.76           | PS'16            | 96.86             | £7.78          | 00.688            | 962706     | (disos) & doner                        | nish Anon                |
|              | 87.72<br>S1 5085 | 19.704           | 31.5         | 07±000.0             | E8.86           | 71.28            | 79.86             | ET.78          | 1298.00           | 865706     | (diuce) 8 doesn                        | niaM Main<br>North Main  |
| 61.0         | S1.7082          | 87.1785          | 15.5         | 61+000.0             | 21.201          | 94.46            | 01.501            | £7.78          | 2662.00           | 96270E     | (divos) 6 doset                        | niaM AtroM               |
| 61.0         | ET.AA            | 87.652           | 84.5         | 0.000429             | 16.28           | ₱9.06            | 1Z.26             | ET.78          | 00.688            | 961206     | (rthuos) & rtosen                      | North Main               |
| 0.20         | <b>86</b> ,18    | 311.58           | 2.85         | 0.000459             | ₱0.7g           | <b>1</b> 916     | Z6'96             | £7.78          | 00.688            | 307136     | (rituos) & ribeet                      | North Main               |
|              | 28.72<br>2499.39 | \$6'299Z         | 3.21         | 084000.0             | 87.86<br>11.501 | 74.26<br>87.46   | S8.86<br>S0.501   | ET.T8<br>ET.T8 | 1298,00           | 961706     | (dhuoe) & doesn<br>(dhuoe) & doesn     | nisM rthoM<br>nisM rthoM |
| 02.0         | BC:86+7          | CR: 1507         | 94.2         | LC#DOD:0             | 11.701          | D/:tec           | 60.201            | 61.10          | 00,5003           | Ser in     | (Introduction                          | Hammer Cores             |
|              | 45.05            | 214.49           | 2.65         | 2000000              | 87.46           | 90.06            | Z9°76             | 86.38          | 00.688            | 300900     | (rituos) & rioner                      | mail (thol)              |
|              | 86.84<br>87.62   | 82 635           | 70.E         | 84-2000.0            | 74.8e           | 70.16            | EE.86             | 8E.88<br>8E.86 | 00.688<br>00.8851 | 309000     | (dauge) & doesn                        | nish dron                |
|              | 54.75<br>54.75   | 85.67E           | 84.E<br>47.4 | 188000.0<br>SE8000.0 | 81.86           | 80.28<br>\$2.148 | 00.86<br>E0.101   | 8E.88<br>8E.88 | 1298.00           | 30900      | (rituos) & riosen<br>(rituos) & riosen | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                |                   |            | Brandon Subob                          | 18.00 mg (N)             |
|              | 84.44<br>88.64   | 99.0ES<br>303.41 | 2,93         | 0.000420             | 98,89<br>44,39  | SS. 68<br>01.06  | 17.6e             | Q£.88<br>Q£.88 | 00.688            | 304000     | (rituos) & rionen<br>(rituos) & rionen | night rinoh              |
|              | 96.88            | 18.885           | 3.36         | 162000.0             | 20,76           | 50.16            | 88.86             | 9E.88          | 1298.00           | 304000     | (diuce) 6 doser                        | riski rinovi             |
|              | 5.E8             | 59.155           | 80.8         | 986000.0             | <b>78.6</b> 6   | 0E.E8            | Z1.66             | 9£.88          | 2652,00           | 304000     | (duos) & doseri                        | Moth Main                |
| -            |                  | 75 000           |              | 537000.0             | 5, 60           |                  |                   | VE 36          | 55 003            | JOHNE      |  | THE THE PERSON           |
|              | 93.36<br>54.62   | 12,952<br>926.29 | 86.S<br>ST.S | 88+000.0<br>19+000.0 | 93.12           | ≯1.68<br>≯6.68   | 12.46             | 95.38<br>95.88 | 00.688            | 302338     | (rituos) & riceen<br>(rituos) & riceen | nieM rtnoM               |
|              | 95'12            | 432 22           | 3,00         | <b>181000</b> .0     | 25.86           | 82'06            | 80'96             | 9E.88          | 1298.00           | 302338     | (rituos) 6 riosen                      | nieM rinoM               |
| 60°0         | 2125.54          | E1.15E2          | 80.1         | 880000.0             | BO.288          | 18,56            | <b>40</b> '66     | 9E.38          | 2652.00           | 302338     | (rituos) & riceen                      | nisM dhoM                |
| 720 1        | , e ea           | 17 OOC           | .4.0         | 0080000              | - CO            | 3F 06            | 10.00             | 36 BB          | 20 093            | PEGGIE     |  | -1-11-49-01/             |
|              | NE.E2            | 17.60S<br>209.94 | 3.02         | 799000 0             | 60°66           | 24.98<br>16.09   | 78.26<br>54.46    | <b>95.88</b>   | 00.688            | \$7550E    | (rituos) & ricaen<br>(rituos) & ricaen | nisM dhoN                |
|              | 39.69            |                  |              |                      |                 | 61.23            | 10.86             | <b>66.39</b>   | 1298.00           | 205514     | (rituos) & riceen                      | niaM (book)              |
| St.0         | 2018.01          | 61.0504          | 1.84         | 271000°C             | 20.66           | <b>EE.</b> E8    | 90.66             | €£.88          | 2652.00           | 302274     | (divos) & dosen                        | niski rimoh              |
| 5, U         | - C3             | PO 920           | FO 6         | PREGOO ()            | - CO            | 69 00            | P4 50             | OF SE          | 00 099            | SCOTUE:    |  |                          |
|              |                  |                  |              | 885000.0<br>514000.0 |                 | 89.88<br>14.68   | 87.89<br>87.89    | 9E.88          | 00.698            | 301822     | (rituos) & ricaen                      | nisM rinoM<br>nisM rinoM |
|              |                  |                  |              | ₹ <b>£№000</b> .0    |                 |                  | 28.26             |                | 1298.00           | 301355     | (rbuoe) & rbaes                        | nieM rhoM                |
| E1.0 e       | 2124.78          | SS.S7AE          | 2,13         | 871000.0             | 10.66           | 92,18            | <b>16.8</b> 6     | ec.88          | \$862.00          | 301855     | (rituos) & rioses                      | niaM ritroM              |
| 81.0 4       | 8.52             | 75.825           | 22.22        | 72E000.0             | <b>68</b> .S6   | 88.88            | 28.58             | 6E.38          | 00.695            | 301815     | (rituos) & riceen                      | -in that                 |
|              |                  |                  | 2.63         | 104000.0             |                 | 44.4             | 82.46             |                | 00.688            | 301916     | (rimos) e riosen                       | Morth Main               |
| 0.20         | 9.1-9            | 71.4EA           | 8.39         | 0.000429             | <b>9</b> 6.86   | 91.06            | <del>98</del> '96 | <b>e</b> £.86  | 1298.00           | 316105     | (rilluos) & ribason                    | North Main               |
| 11.0         | 2553.03          | 95.8474          | 65.1         | atr000.0             | 00'66           | 61.56            | 96 B6             | 8E.88          | 2652,00           | 316106     | (dhios) & dases                        | minM stroM               |
| 81.0         | 7.58             | 89.555           | 2.23         | 186000.0             | 79.26           | 89,89            | 08.56             | <b>6</b> E.88  | 00.695            | 301665     | (rituos) & riosen                      | niaM choV                |
|              |                  |                  |              |                      |                 |                  | 94.26             |                | 00.688            | 301885     | (rituos) & ribeen                      | nisM rhoM                |
|              |                  |                  |              |                      |                 |                  | 18.26             |                | 1298.00           | 301986     | (rituos) & riosen                      | nieM rthoM               |
| 11.0 0       | \$29 <b>5</b> .4 | 98.0E74          | 69°L         | er1000.0             | 66.86           | £1,56            | 86.86             | ec.88          | 2652.00           | 301885     | (rituos) & ribeen                      | niaM rthoM               |
| ES.0 E       | £.24             | 203.41           | 2.80         | <b>788000.0</b>      | 92.80           | 80.68            | 89.56             | €E.88          | 00.698            | 157106     | (dhos) 6 noen                          | North Main               |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.688            | 301721     | (rituos) & rioses                      | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.8651           | 301721     | (rituce) & riceen<br>(rituce) & riceen | nisM rthoU               |
|              |                  |                  |              |                      |                 |                  |                   |                |                   | R wag safe |  |                          |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.692            | 30166      | (rituos) E ribeen                      | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 1298.00           | 30106      | (dluce) 5 deed                         | nisM AtroM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 2652.00           | 301656     | (rhuce) & rhaen<br>(rhuce) & rhaen     | North Main               |
|              |                  |                  |              |                      |                 |                  |                   |                |                   | 1 10 10 10 |  | A                        |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.688            | 300000     | (rituos) 6 ricest                      | nisM rihoM<br>nisM rihoM |
|              |                  |                  |              |                      |                 |                  |                   |                | 1298.00           | 300000     | (unce) o (sonth)                       | niski dhovi              |
| SE.0 28      | 9.09             | 81.884           | 99'S         | 166100.0             | 99.76           | 14.Se            | 97.20             | <b>6</b> 5.38  | 5925.00           | 300000     | (rithos) & ricean                      | nisM rtnoM               |
| 39.0         | 9.44.6           | 130.23           | ZE"₱         | ETS00.0              | 00.06           | 7E.88            | 07.68             | <b>€</b> €.88  | 269.00            | 588392     | (rituos) & ribsen                      | niaM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.688            | 299385     | (rituoe) & riceen                      | Month Main               |
|              | 9.143            | 38.800           | 4.20         | 180100.0             | 93.58           |                  |                   |                | 1298.00           | S9996S     | (rituos) E ribeen                      | risM rtnoM               |
|              |                  |                  | ZE'S         | 0.001192             |                 | 9.16             |                   | €E.38          | 2652.00           |            |  |                          |

HEC DAS Plan P 25% 3 (Continued) River Sta 0 Total Vel Chnl Reach Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Flow Area Top Width Froude # Chi. (cfs) (H) (ft) (ft) (ft/ft) (ft/a) (sq ft) (ft) North Main reach 2 37249 482.00 78.00 87.08 80.54 87.13 0.000093 319 88 52.91 0.12 reach 2 North Main 137249 1051.00 78.00 90.08 82.09 90,19 0.000151 3.06 495.03 64.52 0.16 North Mair each 2 137249 1858.00 78.00 91.01 83.79 91.33 0.000352 4.93 557.73 67.93 0.24 North Main 137249 4804.00 reach 2 92.14 88.26 93.63 0.001679 11.40 821.90 3640.75 0.54 North Main reach 2 137150 482.00 78.00 87.07 80.41 87.12 0.00008 333.54 53.74 0.11 North Main each 2 137150 1051.00 78.00 90.06 81,88 90.17 0.000133 2.88 510.38 64.88 0.15 North Main each 2 137150 1858.00 78.00 91.00 83.52 91,29 0.000312 4.65 573.03 68.36 0.23 North Main each 2 137150 4804.00 78.00 92.02 87.85 93.63 0.001585 10.97 646.41 2221.13 0.52 North Main ach 2 135957 482.00 78.00 87.00 80.18 87.04 0,000063 1.64 364.12 57.05 0.10 North Main reach 2 135957 1051.00 78.00 89.93 81.52 90.02 0.000107 547.31 2.58 67.85 0.13 North Main 83.04 reach 2 135957 1858.00 78,00 90.78 0.000210 3.79 1405.30 1303.71 0.19 North Main reach 2 135957 4804.00 78.00 91.90 87.09 92.26 0.000533 6.42 3681.48 2916.62 0.31 North Main 135841 reach 2 482.00 78.00 86.98 80.23 87.02 0.000068 1 70 353.30 55.71 0.10 North Main reach 2 135841 1051.00 78.00 89.90 81.60 90.00 0.000115 2.67 531.56 66,34 0.14 North Main reach 2 135841 1858.00 78.00 90.71 83.15 90.93 0.000248 4.11 1167.16 1395.68 0.20 North Main reach 2 135841 4804.00 7B.00 91.79 87.27 92.20 0.000602 6.75 3731.79 5976.83 0.32 North Main reach 2 135233 482.00 78.00 86.95 80.32 86.99 0.000066 1.57 55.01 0.10 North Main reach 2 135233 1051.00 78.00 89.85 81.73 89 94 0.000108 2.46 518.86 0.13 66.03 North Main reach 2 1858.00 78.00 90.68 83.13 90.78 0.000151 3.06 2883.68 3640 52 0.16 North Main reach 2 135233 4804.00 78.00 91.99 86.96 92.00 0.000054 1.95 17128.66 9186 61 0.09 North Main mach 2 134690 482 00 78.00 86.93 80.04 86.96 0.000046 1.33 403.28 63,63 0.08 North Main reach 2 134690 1051.00 78.00 89.82 B1.31 89.88 0.000069 1.99 951.06 598.31 0,11 North Main each 2 134690 1858.00 78.00 90.66 82 63 90 71 0.000084 2.30 4704.58 8801.60 0.12 North Main each 2 134690 4804.00 78,00 91.98 86.09 91.99 0.000041 1.73 18937.69 9801.20 0.08 North Mair 134647 reach 2 Bridge North Main reach 2 134606 482.00 78.00 86 89 81.96 86.94 0.000134 2.01 312.74 70.36 0.14 North Main reach 2 134606 1051.00 78.00 89.72 83.30 89.81 0.000141 2.60 1307.46 1864.92 0.15 North Main 134506 reach 2 1858.00 78.00 90.62 84.81 90.66 0.000108 2.42 5367.28 8768.46 0.13 North Main each 2 134806 4804.00 78.00 91.96 90.76 91.96 0.000042 1.64 19613.56 9788.50 0.08 North Main reach 2 134537 482.00 78.00 86.90 80.04 86,92 0.000047 1.34 400 B8 63 48 0.08 North Mair reach 2 134537 1051.00 78.00 89.73 81.31 89.79 0.000073 2.03 895.56 574.51 0.11 North Main reach 2 134537 1858 00 78.00 82.63 90.64 0.000094 2.43 4434.95 8739.14 0.12 North Main reach 2 134537 4804.00 78.00 91.95 86.09 91.96 1.75 18692.29 9782.15 0.09 North Main reach 2 132334 962.00 78.00 86.51 61.36 86.64 0.000271 2.86 347.05 5R 17 0.19 North Main reach 2 132334 1985.00 78,00 89.09 83.16 89.38 0.000387 4.22 675.33 2154.88 0.24 North Main reach 2 132334 3435.00 78.00 84.98 90.22 90.30 0.000207 3.33 6566.96 8427.84 0.18 North Main each 2 78.00 91.79 90.51 91.81 0.000096 2.50 21396.33 9651.57 0.13 North Main reach 2 131688 962.00 78.00 86.34 81.34 86.46 0.000269 2.77 357.38 61,94 0.19 0.000239 North Main reach 2 131688 1985.00 78.00 89.00 83.09 89.13 3.29 1925.05 1989,6 0.19 North Main 131688 3435.00 reach 2 78.00 90.09 84.81 90.17 0.000190 3.16 5798.20 7579.23 0.17 North Main reach 2 131688 8788.00 78.00 91.71 89.89 91.74 0.000114 2.69 19249.46 8694.01 0.14 North Main reach 2 130701 962.00 78.00 86.26 80.24 86.29 0.000095 1.68 1065.62 280.33 0.11 North Main reach 2 130701 1985 00 78.00 88.92 81.50 0.000099 2.13 2227.26 1500.41 0.12 North Main reach 2 130701 3435.00 78.00 89.95 82.88 90.00 0.000137 2.69 0.15 North Main each 2 130701 8788.00 78.00 91.59 86.50 91.62 0.000128 2.87 17414.03 8455.02 0.15 North Main reach 2 130046 962.00 78.00 86.03 81.30 3.01 327.47 86.17 0.000326 57.23 0.21 North Main 130048 each 2 1985.00 78.00 88.65 83.09 88.84 0.000327 3.77 1648.99 3269.49 0.22 North Main reach 2 130046 3435.00 78.00 8079.57 89.85 84.88 89.91 0.000165 2.91 6619.25 0.16 North Main reach 2 130048 8788.00 78.00 91.54 89.69 0.000069 91.55 2.08 23821.63 9344.04 0.11 North Main 128081 reach 2 962.00 78.00 85.37 81.03 85,52 0.000370 3.04 320.37 196.37 0.22 North Main 128081 each 2 1985.00 78.00 88.05 82.73 88.22 0.000311 3.56 1711.83 3151.93 0.21 North Main reach 2 3435.00 89.55 78.00 84.47 89.61 0.000149 2.74 6773.35 6703.22 0.15 North Main each 2 128081 8788.00 78.00 91.44 89.09 91.44 0.000046 1.71 27441.69 9638.16 0.09 reach 2 North Main 128032 962.00 78.00 85.35 81.04 85.50 0.000376 3.05 318.6€ 188.78 0.22 North Main reach 2 128032 1985 00 78.00 88.03 82.72 88.20 0.000318 3.60 1674.52 3117.76 0.22 North Main 3435.00 reach 2 128032 78.00 89.55 64.47 89.60 0.000150 2.75 6758.84 6729 91 0.15 North Main each 2 128032 8788.00 78.00 91.43 89.09 91.43 0.000046 1.71 27475.54 9654.49 0.09 North Main 126984 reach 2 962.00 76.00 85.04 79.67 85.16 0.000267 2.7 357.36 1365.73 0.19 North Main each 2 126984 1985.00 76.00 87.90 81.51 87.96 0.000138 2.48 3139.94 4073.35 0.14 North Main reach 2 126984 3435.00 76.00 89.45 83.42 89.48 0.000077 2.05 8359.63 6535.8 0.11 North Main reach 2 128984 8788.00 76.00 91.40 88.13 91,40 0.000028 1.38 31465.98 9055.57 0.07 North Main 126599 reach 2 962.00 76.00 84.94 85.05 0.000275 79.66 2.71 357.00 60.18 0.19 North Main reach 2 128599 1985.00 76.00 87.64 81.48 87.86 0.000338 3.81 782.60 977.89 0.22 North Main reach 2 126599 3435.00 76.00 89.34 83.39 89.43 0.000180 5506.91 3.12 6420.99 0.17 North Main each 2 126599 8788.00 76.00 89.23 1.95 24674.39 8888.89 0.10

HEC\_DAS Plan: P 25% 3 (Continued)
River Reach RiverSta Q Tota Min Ch El Q Total W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Froude # Chi (cfs) (ft) **(ft)** (11) (fl/fl) (fl/a) (ac ft) (11) 125566 North Mair aach S 962.00 76.00 84.61 79.66 84.74 0.000332 334.00 57.37 0.21 1985.00 North Main reach 2 125566 76.00 87.27 61.48 87.49 0.000380 3.93 688.76 984.99 0.23 North Main reach 2 125588 3435.00 76.00 89.13 83.38 89.22 0.000209 3.32 4521.78 4084.20 0.18 North Mair 76.00 each 2 125566 8788.00 91,28 88.92 91.31 0.000100 2.60 19891.95 9254.74 0.13 North Main reach 2 124578 962.00 76.00 84 33 79.24 84.45 0.000264 2.79 354.51 60.15 0.19 North Main reach 2 124578 1985.00 78.00 88.85 81.00 87.11 0.000383 4.15 519.66 70.63 0.24 North Main reach 2 124578 3435.00 76,00 88.71 82.77 88.94 0.000357 4.52 2458.61 2036.24 0.24 124578 North Male reach 2 8788.00 76.00 90.95 89.11 91.12 0.000365 5.17 9007.22 5479.00 0.25 North Main reach 2 124380 962.00 76.00 84.23 79.51 84.37 0.000343 3.10 318.91 56.05 0.21 North Main reach 2 124360 1985.00 76.00 86,77 81,36 87.03 0.000417 4.25 805.80 440.91 0.25 reach 2 124360 3435.00 76.00 88.59 83.15 88.85 0.000428 4.86 1977.55 2413.04 0.26 North Main each 2 124360 8788.00 76.00 90.97 88.79 91.03 0.000208 3.87 13000.02 5749.37 0.19 North Main arti 2 124036 962.00 76.00 84.11 79.38 R4 26 0.000342 3.09 31B.71 55.34 0.21 North Main each 2 124036 1985.00 76.00 86.61 81.22 86.88 0.000438 4.33 744.61 408.54 0.25 North Main each 2 124036 3435.00 78.00 88.41 83.03 88.71 0.000463 5.03 1830.26 0.27 North Main aoh 2 124036 8768.00 76.00 90.88 68.75 90.96 0.000228 4.04 12447.38 5637.35 0.19 North Main ech 2 122198 962.00 76.00 83.46 79.14 83,61 3.10 313.79 57.54 0 22 North Main each 2 122198 1985.00 76.00 86.02 80.87 86.18 0.000320 3.58 1401.38 **678.14** 0.22 North Main each 2 122198 3435.00 76.00 88.06 62.63 88.14 0.000183 3.13 4408.59 2048.76 0.17 North Main reach 2 122198 8788.00 76.00 90.52 87.29 90.58 0.000189 3.65 11022.83 5366.97 0.18 North Main reach 2 120752 962.00 76.00 R2 55 79.42 82.61 0.000841 4.02 239.96 50.91 0.32 North Main reach 2 120752 1985,00 85.41 76.00 84.93 81.24 0.000953 5.56 373.13 61.29 0.36 North Main reach 2 3435.00 76.00 87.50 83.02 87.73 0.000462 4.73 2682.90 1825.82 0.27 North Mair each 2 120752 8788.00 76.00 90.16 87.94 90.25 0.000278 4.30 8360.91 2900.23 0.21 North Main reach 2 120467 962.00 76.00 82.32 79.23 82.56 0.000832 3.93 245 16 52.51 0.32 North Main reach 2 120467 1985.00 76,00 84.68 80.99 85.13 0.000924 5.40 380.90 62.75 0.36 each 2 120487 3435.00 76.00 87.08 82.74 87.54 0.000758 5.93 1568.19 1850.36 0.34 North Main each 2 20467 8788.00 76.00 90.10 66 05 90.18 0.000250 4.10 10106.63 4296.46 0.20 North Main each 2 119740 962.00 78.00 80.78 79.23 81.28 0.002445 5.68 169.27 45.79 0.52 North Main reach 2 119740 1985.00 76.00 83.03 80,96 83.80 0.002242 7.06 283.14 55.56 0.53 North Main reach 2 119740 3435 00 76.00 85.21 82.74 86.35 0.002131 8.61 466.34 1369.24 0.55 North Main reach 2 119740 6788.00 76.00 90.03 87.55 90.05 0.000087 2.12 19364.39 7395.43 0.11 North Main reach 2 119730 962.00 72.00 80.99 75.11 81.08 0.000139 2.13 473,41 79.15 0.14 North Main each 2 119730 1965.00 72.00 83.32 76.74 83.49 0.000225 3.27 690.41 118.57 0.19 North Ma woh 2 119730 3435.00 85,63 72.00 78.35 85.91 0.000302 4.39 1047.18 1570.56 0.22 North Main each 2 8788.00 119730 72.00 89.61 82.35 89.95 0.000354 5.76 4040.69 6174.87 0.26 North Main reach 2 118784 962.00 72.00 80.88 75.11 80.96 0.000146 2.17 465.01 78 50 0.14 North Main reach 2 118784 1985.00 72.00 83.18 76.74 83.32 0.000211 3.14 1075.90 569.16 0.18 North Main reach 2 118784 3435.00 72.00 85.57 78.35 85.67 0.000153 3.11 3071.56 3291.00 0.16 North Main each 2 118784 8788.00 72.00 89.64 84.22 89.69 0.000098 3.00 10454.44 5052.28 0.13 North Main reach 2 118761 962.00 70.00 80.88 73.45 80.94 0.000115 2.05 487 99 0.13 North Main reach 2 118761 1985.00 70.00 75.48 83.31 0.000187 3.09 1079.88 584.50 0.17 North Main reach 2 118761 3435.00 70.00 85.56 77.48 85.67 0.000153 3.20 2912.73 893.63 0.16 North Main reach 2 118761 6788.00 70.00 89,62 83.99 89.68 0.000108 3.23 11060.36 2547.63 0.14 North Main march 2 118735 Culver North Main reach 2 118709 962.00 70.00 79.87 79.95 0.000181 2.35 417.09 67 48 0,16 North Main reach 2 118709 1985.00 70.00 82.64 82.61 0.000241 3.38 812.96 446.55 0.19 North Main reach 2 118709 3435.00 70.00 85.55 85.66 0.000154 3.21 2904.14 892.99 0.16 each 2 118709 8788.00 70.00 89.61 89.67 0.000108 3.24 11032.25 2545.21 0.14 North Main mach 2 118835 962.00 72.00 79.64 79.94 0.000222 2.47 396.41 70.11 0.17 North Main reach 2 118635 1985.00 72.00 82.62 82.79 0.000263 3.43 826.05 475.27 0.20 North Main reach 2 118635 3435.00 72.00 85.54 85.64 0.000155 3.16 2979.12 948.80 0.16 North Main each 2 118635 8788.00 72.00 89.60 89.66 0.000102 3.11 11259.97 2559.45 0.14 North Main reach 2 18513 962.00 72.00 79.82 79.91 0.000211 2.44 399.85 67.63 0.17 North Main reach 2 118513 1985.00 72.00 82.59 82.76 0.000250 3.37 857.94 448.70 0.19 North Main reach 2 118513 3435.00 72.00 85.52 85.62 0.000154 3 17 2942 4B 922.90 0.16 North Main reach 2 118513 8788.00 72.00 89.59 89.65 0.000105 3.18 11122.31 2540.76 0.14 North Main 117690 1120.00 70.00 reach 2 79.63 73 75 79.76 0.000243 2.99 395.95 60.50 0.18 North Main reach 2 117690 2355.00 0.000413 70.00 82.21 75.82 82.54 4.69 568.37 73.71 0.25 North Main reach 2 117690 4175.00 70.00 84.76 77.91 85.39 0.000607 6 55 783.99 93.60 0.32 North Main reach 2 117690 10250.00 70.00 89.32 83,24 69.52 0.000283 5.45 8421.16 6050.56 0.23 North Mair reach 2 117193 1120.00 70.00 79.53 73.66 79.66 0.000242 2.98 389.69 58.25 0.18 North Main reach 2 117193 2355.00 70.00 82.04 75.71 0.000422 82.37 4.70 561,22 79.98 0.25 North Mair 117193 77.76 reach 2 4175.00 70.00 84.48 85.14 0.000633 6.82 829.37 211.18 0.32 North Main reach 2 117193 10250.00 70.00 87.26 83.27 89.13 0.001576 11.88 1886.64 848.40 0.53 North Main reach 2 116403 1120.00 70.00 79.38 74.20 79.51 0.000260 2.94 408.87 70.45 0.19

| River Reach 2 North Main reach 2 |  | River Sta   | Q Total          | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Slope           | Vel Chnl                              | Flow Area        | Top Width      | Froude # Chi                          |
|--|--|---|------------------|----------------|----------------|--|----------------|----------------------|---------------------------------------|------------------|----------------|---------------------------------------|
| North Main reach 2 North Main re | Reach  | Jurei Ola   | (cfs)            | (ft)           | (ft)           | (ft)   | (ft)           | (fVft)               | (fVs)                                 | (sq ft)          | (ft)           | Troise vie                            |
| North Main reach 2 North Main re | 2  | 157290  | 100.00           | 87.38          | 92.23          | 88.88  | 92.25          | 0.000164             | 1.11                                  | 90.09            | 28.70          | 0.11                                  |
| North Main reach 2 North Main re |  | 157290  | 188.00           | 87.38          | 95.35          | 89.49  | 95.38          | 0.000068             | 0.94                                  | 199.20           | 41.31          | 0.08                                  |
| North Main reach 2 North Main re | 2  | 157290  | 515.00           | 87.38          | 97.05          | 91.01  | 97.11          | 0.000213             | 1.87                                  | 275.51           | 48.09          | 0,14                                  |
| North Main reach 2 North Main re | *  | 38 39 38 38 3   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2 North Main re |  | 158900  | 40.00            | 87.38          | 89,39          | 88.06  | 89.41          | 0.000376             | 1.10                                  | 36.31            | 22.48          | 0.15                                  |
| North Main reach 2 North Main re |  | 156900  | 100.00           | 87.38          | 92.18          | 88.52  | 92,19<br>95.34 | 0.000091<br>0.000043 | 0.88                                  | 113.32           | 32.70          | 0.08                                  |
| North Main reach 2 North Main re |  | 156900<br>156900  | 188.00<br>515.00 | 87.38<br>87.38 | 95.33<br>96.99 | 89.03<br>90.35                                   | 97.04          | 0.000148             | 1.64                                  | 234.26<br>313.20 | 44.25<br>50.38 | 0.12                                  |
| North Main reach 2 North Main re | <b>2</b> % 3-00-05   | IGGGGG  | 313.00           | 67.36          | 90.33          | 50.33  | 67.04          | 0.000140             | 1.04                                  | 313.20           | 30.30          | 0.12                                  |
| North Main reach 2 North Main re | 2  | 155952  | 40.00            | 87.33          | 88.96          | 87.94  | 88.98          | 0.000542             | 1.17                                  | 34.30            | 26.17          | 0.18                                  |
| North Main reach 2 North Main re |  | 15591-2   | 100.00           | 87.33          | 92.12          | 88.35  | 92.13          |                      | 0.70                                  | 141.98           | 42.08          | 0.07                                  |
| North Main reach 2 North Main re |  | 155852  | 188.00           | 87.33          | 95.30          | 88,80  | 95.31          | 0.000026             | 0.62                                  | 301.64           | 58.14          | 0.05                                  |
| North Main reach 2  | 2  | 155′ 52   | 515.00           | 87.33          | 96,90          | 89.97  | 96.92          | 0.000089             | 1.29                                  | 400.73           | 66.18          | 0.09                                  |
| North Main reach 2  |  | 1000 200  |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   |  | 155846  | 40.00            | 87.31          | B8.90          | 87.84  | 88.92          |                      | 1.24                                  |                  | 23.04          | 0.18                                  |
| North Main reach 2 North Main re |  | 15\848  | 100.00           | 87.31          | 92,11          | 88.28  | 92.12          |                      | 0.81                                  | 123.87           | 33.81          | 0.07<br>0.06                          |
| North Main reach 2 North Main re | Control of the Contro | 155846  | 188.00<br>515.00 | 87.31          | 95,30<br>96,88 | 88.76<br>90.02                                   | 95.31<br>96.92 | 0.000036             | 0.78<br>1.62                          |                  | 43.18<br>47.83 | 0.00                                  |
| North Main reach 2 North Main re | 2  | 15 3846   | 313.00           | 87.31          | 50.00          | 80.02  | 50.52          | 0.000134             | 1.02                                  | 310.20           | 47.83          | 0.17                                  |
| North Main reach 2 North Main re | 5  | 1:5779  | 40.00            | 87.31          | 88.88          | 87.70  | 88.89          | 0.000235             | 0.82                                  | 48.68            | 33.28          | 0.12                                  |
| North Main reach 2 North Main re |  | 158779  | 100.00           | 87.31          | 92.11          | 88.02  | 92.11          | 0.000033             | 0.58                                  |                  | 42.64          | 0.05                                  |
| North Main reach 2 North Main re |  | 155779  | 188.00           | 87.31          | 95.30          | 88.39  | 95,30          | <del>,</del>         | 0.59                                  |                  | 51.45          | 0.04                                  |
| North Main reach 2 North Main re |  | 155779  | 515.00           | 87.31          | 96.87          | 89.38  | 96.90          | <del></del>          | 1.27                                  |                  | 55.81          | 0.08                                  |
| North Main reach 2 North Main re | HIRITANA NA   | la z z z z  | L                |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2 North Main re | 2  | 155696  | 40.00            | 87.31          | 88.84          | 87.78  | 88.86          | ·                    | 1.09                                  |                  | 26.02          | 0.16                                  |
| North Main reach 2 North Main re |  | 155696  | 100.00           | 87.31          | 92.09          | 88.16  | 92.10          | <del>+</del>         | 0.74                                  |                  | 35.24          | 0.07                                  |
| North Main reach 2   |  | 155696  | 188.00           | 87.31          | 95.28          | 88.60  | 95.29          | <del>,</del>         | 0.71                                  | 263.15           | 44.43          | 0.05                                  |
| North Main reach 2   | 2  | 155696  | 515.00           | 87.31          | 96.85          | 89.76  | 96,89          | 0.000119             | 1.53                                  | 338.47           | 48.95          | D.10                                  |
| North Main reach 2   |  | 10-4-18-0, 3-4  | <del></del>      |                |                | 87.06  | 88,64          | 0.000.               | 0.82                                  | 48.95            | 26.96          | 0.11                                  |
| North Main reach 2   |  | 154900  | 100.00           | 86.57<br>86.57 | 88.63<br>92.05 | 87.06  | 92.06          | <del></del>          | 0.63                                  | <del></del>      | 37.28          | 0.05                                  |
| North Main reach 2   | An almada Alaka  | 154900<br>154900  | 188.00           | 88.57          | 95.26          | 87.90  | 95.26          | +                    |                                       |                  | 46.94          | 0.05                                  |
| North Main reach 2  |  | 154900  | 515.00           | 86.57          | 96.78          | 89.08  | 96.81          | <del></del>          | +                                     | <del></del>      | 51.52          | 0.09                                  |
| North Main reach 2  |  | 3.0   |                  | 55.67          |                |  |                | 1                    |                                       | 1                |                |                                       |
| North Main reach 2   |  | 153295  | 40.00            | 85.60          | 88.42          | 86.21  | 88.43          | 0.000105             | 0.72                                  | 55.63            | 24.51          | 0.08                                  |
| North Main reach 2  |  | 153295  | 100.00           | 85.60          | 92.00          | 86.68  | 92,00          | 0.000031             | 0.61                                  | 164.14           | 36.16          | 0.05                                  |
| North Main resch 2   |  | 153295  | 188.00           | 85.60          | 95.23          | 87.20  | 95.23          | 0.000022             | 0.63                                  | 298.59           | 47.20          | 0.04                                  |
| North Main reach 2  | 2  | 153295  | 515.00           | 85.60          | 96.63          | 88.55  | 96.66          | 0.000093             | 1.40                                  | 388.00           | 52.05          | 0.09                                  |
| North Main reach 2  | 75 1 2 2 7 2 P   | M Life by   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   | 2  | 153200  | 40.00            | 85.60          | 88.41          | 86.21  | 88.41          | 0.000106             |                                       |                  | 24.46          |                                       |
| North Main reach 2  | 2  | 153200  | 100.00           | 85.60          | 91.99          | 86.68  | 91.99          |                      | 0.61                                  | 163.74           | 36.12          | 0.05                                  |
| North Main reach 2  | 111 0 0 0000   | 153200  | 188.00           | 85.60          | 95.22          | 87.20  |                |                      | · · · · · · · · · · · · · · · · · · · | <del></del>      |                |                                       |
| North Meln reach 2   | 2  | 153200  | 515.00           | 85.60          | 96.61          | 88.54  | 96.64          | 0.000094             | 1.40                                  | 367.02           | 51.98          | 0.09                                  |
| North Meln reach 2   |  | 452000  | 40.00            | 85.22          | 88.38          | 85.96  | 88.39          | 0.000058             | 0.56                                  | 70.88            | 28.93          | 0.06                                  |
| North Main reach 2   | 1 1940 5411  | 152900  | 100.00           | 85.22          | 91.98          | 86.37  | 91.96          |                      |                                       |                  | 40.41          | 0.04                                  |
| North Main reach 2  | 170 1700 1700 1700 1   | 152900  | 188,00           | 85.22          | 95,21          | 86.82  | 95.22          | ·                    | 0.55                                  |                  | 50.86          | <del></del>                           |
| North Main reach 2  |  | 152900  | 515.00           | 85.22          | 96.59          | 88.03  |                |                      | 1.24                                  |                  | 55.31          | 0.08                                  |
| North Main reach 2  |  |   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   | 2  | 150900  | 40.00            | 84.97          | 88.30          | 85.46  | 88.31          | 0.000031             | 0.45                                  | 89.85            | 32.92          | 0.05                                  |
| North Main reach 2  | 2  | 150900  | 100.00           | 84.97          | 91.95          | 85.85  | 91.96          |                      |                                       | +                | +              |                                       |
| North Main reach 2   | 2  | 150900  | 188.00           | 84.97          | 95.19          |  | 95.20          |                      |                                       |                  | 56.95          |                                       |
| North Main reach 2   | 2  | 150900  | 515.00           | 84.97          | 96.48          | 87,43  | 96.50          | 0.000048             | 1.08                                  | 475.62           | 61.49          | 0.07                                  |
| North Main reach 2   |  |   |                  |                |                | 25.04  | 00.00          | 0.000046             | 0.34                                  | 110.01           | 37.81          | 0.03                                  |
| North Main reach 2  | 2  | 150637  | 100.00           | 84.27          | 88.29<br>91.95 | 85.01<br>85.36                                   | 88.30<br>91.95 |                      |                                       | +                | <del></del>    | 0.03                                  |
| North Main reach 2   |  | 150637<br>150637  | 188.00           |                | 95.19          |  |                |                      |                                       |                  |                | <del></del>                           |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   |  | 150637  | 515.00           |                | 96.46          |  | 96.49          | +                    | <del></del>                           |                  |                |                                       |
| North Main reach 2   |  | 17.7  | 1                | 1              | 1              | 1  | T              | 1                    |                                       |                  |                |                                       |
| North Main reach 2   | 2  | 150569  | 40.00            | 84.27          | 88.28          | 85.01  | 88.29          | 0.000016             |                                       |                  |                |                                       |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  |  | 150569  | 100.00           |                | 91.95          | <del>***                                  </del> |                | +                    |                                       |                  |                | <del> </del>                          |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | 12   | 150569  | 188,00           |                | 95.19          | ,  |                | +                    | <del></del>                           |                  |                |                                       |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | 12   | 150569  | 515.00           | 84.27          | 96.47          | 86.81  | 96.49          | 0.000046             | 0.92                                  | 559,87           | 91.83          | 0.07                                  |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   | Herteristasi   |   | 1                | ļ              | <u> </u>       | ļ  | ļ              |                      | J                                     |                  |                | ļ                                     |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | The second of the second of the second   | 148900  | 40.00            |                | 88.25          |  | <del></del>    | <del></del>          |                                       |                  | 4              | +                                     |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | -  | 148900  | 100.00           |                | 91.93          |  |                |                      |                                       |                  | +              | · · · · · · · · · · · · · · · · · · · |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   |  | 148900  | 188.00<br>515.00 |                |                | - <del> </del>                                   |                |                      |                                       |                  |                |                                       |
| North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2   | 164 50 34 34   | 140900  | 3,3,00           |                | 50.00          | 50,30  | 1              | 3.00004              | 1                                     | 1                |                | 1                                     |
| North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2   | 12   | 147966  | 40.00            | 83.76          | 88.23          | 84.95  | 88.2           | 3 0.000073           | 0.68                                  | 58.91            | 20.33          | 0.0                                   |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   |  | 147966  | 100.00           |                |                | +  | +              |                      |                                       |                  |                |                                       |
| North Main reach 2  North Main reach 2  North Main reach 2   |  | 147966  | 188.00           | <del></del>    |                |  |                | 7 0.00002            |                                       | 271.05           | 41.27          | 7 0.05                                |
| North Main reach 2<br>North Main reach 2   |  | 147966  | 515.00           |                |                | <del></del>                                      |                | 4 0.00013            | 1.6                                   | 1 319.99         | 45.39          | 0.1                                   |
| North Main reach 2   | årgaget kel  |   |                  |                |                |  | L              |                      |                                       | ļ                |                | <u> </u>                              |
|  | n2   | 147814  | 40.00            | <del></del>    |                | <del>                                     </del> |                |                      |                                       |                  |                |                                       |
| North Main reach 2   |  | 147814  | 100.00           |                |                | +  |                |                      |                                       |                  |                |                                       |
|  |  | 147814  | 188.00           |                |                |  |                |                      | +                                     |                  |                | +                                     |
| North Main reach 2   | 12   | 147814  | 515.00           | 83,76          | 96.2           | 87.5   | 96.3           | 2 0.00008            | 3 1.3                                 | 5 382.2          | 3 51.9         | 9 0.0                                 |
|  | ging dilipaga<br>Na  | 6   10   30   31   31   32   33   34   34   34   34   34   34 | 1                |                |                | <del></del>                                      | ,              | 0.00004              | в 0.3                                 | 400.00           | 2 29.9         | 5 0.0                                 |
| North Main reach 2   |  | 146900  | 40.00            |                | +              |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   |  | 148900  | 100,00           |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2<br>North Main reach 2   |  | 146900  | 515.00           |                |                |  |                |                      |                                       |                  |                | +                                     |

2AQ. Plan: P 25% 3 (Continued) River Min Ch El W.S. Elev Reach River Sta O Total Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (ft/ft) (ft/e) (aq ft) (ft) North Mair reach 2 145333 40.00 83.11 83.73 68.18 88.16 0.000012 0.34 119.07 32,22 0.03 North Mair reach 2 45333 100.00 83.11 91.89 84.20 91.89 0.000009 0.38 262.13 45.25 0.03 North Mak reach 2 145333 188.00 83,11 95.13 84.73 95,14 0.00000B 0.44 429.46 57.85 0.03 North Mair reach 2 145333 96.16 86.08 96.17 0.000044 1.05 490.56 61.67 0.07 North Main reach 2 145285 40.00 R3 11 RR 18 83.73 88.18 0.000012 0.34 118.97 32.21 0.03 North Main reach 2 145285 100.00 83.11 91.89 84.20 91.89 0.000009 0.38 262.03 45.24 0.03 145285 reach 2 188.00 83.11 95.13 84 73 95 13 0.000008 0.44 429.34 0.03 45285 reach 2 515.00 83.11 96.16 86.08 96.17 0.000030 0.87 1054.48 2238.74 0.05 North Main reach 2 144900 40.00 83.06 88.18 83.58 88.18 0.27 0.000007 149.03 37.57 0 02 North Mair reach 2 144900 100.00 83.06 91.88 83.95 91.89 0.000000 0.32 310.78 49.66 0.02 North Main each 2 144900 188.00 83.06 95.13 84.39 95.13 0.000006 0.38 567.95 503.36 0.02 North Main reach 2 144900 515.00 83,06 96.15 85.56 96.16 0.000019 0.73 1732.87 2335.24 0.04 North Main reach 2 44259 482.00 78,00 88.11 80.37 88.14 0.000062 1 34 350 A7 49 86 0.09 North Main reach 2 44259 1051.00 78.00 91.79 81.85 91.84 0.000079 1.88 563.64 81.85 0.10 North Male reach 2 144259 1858.00 78.00 94.98 83.44 95.08 0.000097 2.51 779.97 73.71 0.12 North Mair ch 2 144250 4804.00 78.00 95.35 87.38 95.92 0.000562 6.15 1416.59 7575.15 0.29 North Main 144227 reach 2 Culvert North Main reach 2 482.00 78.00 88.00 80.37 88.03 0.000065 1.36 354.22 49.55 0.09 North Mak 14196 1051.00 78,00 91.21 81.85 91.27 0.000098 2.00 528.24 59.68 0.11 North Mair reach 2 144190 1858 00 78.00 **B3.44** 0.000159 93.33 2.91 654.54 0.15 67.09 North Mair reach 2 144196 4804.00 78.00 95.37 87.38 95.90 0.000537 6.02 1658.29 7700.76 0.29 North Mair 482.00 87.92 reach 2 143766 80.00 B3.00 87 98 0.000190 1 95 246.95 47.42 0.15 North Main reach 2 143758 1051.00 80.00 91.10 84.48 91.20 0.000198 2.53 416.87 59.29 0.16 North Main reach 2 43786 1858.00 80.00 85.98 93.03 93,22 0.000287 3.55 538.10 68 46 0.20 North Main 43766 each 2 4804.00 80.00 95.43 69.71 95.55 8005.10 0.000255 3.89 8954,42 0.20 North Main reach 2 142844 482.00 80.00 87.7 82.81 87.81 0.00016 261.57 49.49 0.14 North Main reach 2 142844 1051.00 80.00 90.94 84,19 91.03 0.000178 2.41 437.08 61.03 0.15 North Min 142844 1858.00 reach 2 80.00 92.79 85.64 92.97 0.000266 3.42 556.31 67.80 0.20 Yorth Main 80.00 ich 2 95.33 89.27 95.38 0.000122 2.72 11669.65 9169 02 0.14 each 2 North Main 42821 Bridge North Mair ach 2 142771 482.00 80.00 87.73 82.51 87.79 0.000163 1.85 280.70 48.47 0.14 North Main reach 2 142771 1051.00 80.00 90.90 83.97 91.00 0.000181 2.43 433.25 60.03 0.16 North Main reach 2 142771 1858.00 80.00 92.75 85.52 92.93 0.000272 3 45 549 63 0.20 North Main 142771 4804.00 reach 2 80.00 95.18 89.25 95.30 0.000237 3.76 8200.68 8923.34 0.19 482.00 141205 North Main sech 2 80.00 87.50 82.38 87.55 0.000147 1.78 271.28 49.45 0.13 North Main reach 2 141205 1051.00 80.00 90.64 83.70 90.73 0.000171 2.38 443.07 59.96 0.15 North Main ach 2 141205 1858.00 80.00 92.33 85.15 92.52 0.000273 3.43 549.55 65.68 0.20 North Main each 2 141205 4804.00 80.00 94,96 88.76 95.01 0.000125 11454.08 2.73 0.14 North Mein 140152 87.31 each 2 482.00 80.00 82.62 87.37 0.000201 1.95 246 94 50 18 0.16 North Main reach 2 140152 1051.00 80.00 90.44 84.06 90.53 0.000209 2.47 425.06 63,79 0.17 40152 North Main 1858.00 92.02 85,54 92.21 0.000327 3.55 531.00 70.58 0.22 North Main 140152 4604.00 wach 2 80.00 0.000131 2.72 11245.37 9008.33 0.14 North Main each 2 140137 Bridge North Main 140107 78.00 87.32 reach 2 482.00 80.62 87.35 0.000087 1.48 330.20 54.18 0.10 North Main sech 2 140107 1051.00 78.00 90.44 82.15 90.50 0.000117 2.03 519.22 66.79 0.13 North Mair each 2 140107 1858.00 78.00 91.89 83.72 92.04 0.000209 3.03 620.67 72.71 0.17 North Main each 2 140107 4804.00 78,00 94 80 87.47 94.83 0.000069 2.36 11292.51 6547.77 0.12 North Main 87.22 138870 482.00 78.00 60.28 87.26 reach 2 0.000066 1.70 359.15 56 07 0.10 North Main reach 2 138870 1051.00 90.28 78.00 81.68 90.37 0.000109 2.65 548.08 67.43 0.13 North Main each 2 138870 1858.00 78.00 91.52 91.75 83.25 0.000237 4.17 634.53 72.06 0.20 North Mair sach 2 4804.00 78.00 94.70 87.46 94.73 0.000081 13694.88 2.82 8905.17 0.12 North Majo urb 2 137387 482 00 78.00 87 12 80.28 87.18 0.000069 1.72 353.60 55.82 0.10 North Main each 2 137387 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537,49 67.02 0.14 137387 1858.00 North Main reach 2 78.00 91.14 83.26 91.39 0.000264 4.32 608.10 70.84 0.21 North Mai 137387 78.00 each 2 4804.00 94.26 87.47 94.51 0.0003111 5.43 4571.58 8307.18 0.24 87.16 North Main each 2 137364 482.00 78.00 87.11 80.28 0.000069 1.72 353.27 55.80 0.10 North Mair auch 2 137384 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537.36 67.01 0.14 North Main each 2 137364 1858.00 78.00 91.13 83.26 91.39 0.000265 4 33 607 78 70.83 0.21 North Main reach 2 137384 4804.00 78.00 94.26 87.48 94.50 0.000313 5 44 4560.37 8302.15 0.24 North Main 137349 each 2 Bridge North Main reach 2 137334 482.00 78 00 87.09 80.28 87.14 0.000070 1.73 352.29 55.73 0.10 North Main reach 2 137334 1051.00 78.00 90.10 81.69 90.21 0.000115 2.70 536,98 66.99 0.14 North Main reach 2 137334 1858 00 78 00 91 12 83.26 91.38 0.000288 4.33 606.81 70.77 0.21 North Main reach 2 137334 4804.00 78.00 93.72 87.47 94.24 0.000552 7.06 2870.15 7107.29 0.32

HEC-DAS Plan: P 25% 3 (Continued) River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chrit Flow Area Top Width Frouds # Chil (cla) (ft) (ft) (ft) (11) (ft/ft) (fl/s) (8q ft) North Main reach 3 (south) 269920 1306.00 70.27 76.73 73,60 77.03 0.001290 4.37 299.05 58.43 0.34 North Main 269920 77.94 reach 3 (south 1925.00 70.27 74,51 78.36 0.001499 5.17 372.65 62.98 0.37 79.25 North Main reach 3 (south) 269920 2703.00 70.27 75.50 79.79 0.001652 5.90 457.92 67.82 0.40 North Main reach 3 (south) 269920 5237.00 70.27 82.04 78.02 82.14 0.000740 3.57 3567.10 2732.52 0.26 North Main reach 3 (south) 289788 1306.00 70.27 76.52 73.60 76.84 0.001453 4.55 286.91 57.64 0.36 North Main reach 3 (south) 269768 1925.00 70.27 77.69 74.51 78.14 0.001694 5,39 356 90 62.04 0.40 North Main reach 3 (south) 269788 2703.00 70.27 78.96 75.50 79.55 0.001864 6 16 438 68 66.76 0.42 North Main reach 3 (south) 269788 5237.00 70.27 81.92 78.02 82.03 0.000893 3.69 3288.33 2251.74 0.29 155.11 North Main reach 3 (south) 269131 1306.00 70.27 73,68 74.78 00969 8.42 52.64 0.86 North Main reach 3 (south) 269191 1925.00 70.27 74.98 74.22 76.10 0.006790 8.48 57.88 226.98 0.75 77.87 0,004816 North Main reach 3 (south) 269131 2703.00 70.27 78.61 75.13 8.27 326.78 64.25 0.65 North Main each 3 (south) 269131 5237.00 70.27 78.80 77.51 80.68 0.005858 10.98 476.75 72.58 0.76 North Main reach 3 (south) 269121 Inline Weir North Main reach 9 (south) 269108 1306.00 65.34 73.37 68.57 73.55 0.000600 3.39 385.42 60.47 0.24 North Main reach 3 (south) 269108 1925.00 65.34 74.97 69.48 75.21 0.00068 3.96 66.18 0.26 North Main each 3 (south) 269108 2703.00 65.34 76.60 70.48 0.000758 4.51 76.92 599.87 72.47 0.28 each 3 (south) North Main 269108 5237.00 65.34 78.80 73.11 79.52 0.00146 6.81 769.02 82.03 0.39 North Main 1306.00 65.34 72.71 68.42 reach 3 (south) 208000 72.88 0.000607 3.24 403.06 70.66 0.24 North Main 268000 1925.00 65.34 74.25 69.26 74.47 0.000653 516.79 reach 3 (south) 3.72 77.30 0.25 North Main 268000 2703.00 65.34 75.83 70.19 4.20 644.01 84.25 reach 3 (south 76.10 0.00069 0.27 North Main each 3 (south) 5237.00 65.34 76.91 72.53 77.69 0.00185 7.10 738.11 90.27 0.44 North Main reach 3 (south) 66698 1306.00 65.32 71.70 68.31 71.91 0.000927 3 70 352 65 70.04 0.29 North Main reach 3 (south) 66698 1925.00 65.32 73.19 69.13 73.46 0.000930 4.17 462.15 76.83 0.30 North Main 20000 74.72 585.05 ch 3 (south 2703.00 65.32 70.01 75.05 0.000943 4.62 83.80 0.31 North Main 65.32 75.86 72.28 76.05 0.000744 4.37 each 3 (south) 66698 5237.00 3985.07 3381.17 0.28 North Main each 3 (eouth) Inline Weir North Main reach 3 (south) 266679 1306.00 81.46 71.69 64.54 71,76 0.000171 2.07 629.71 82.41 0.13 North Main 266679 1925.00 73.18 65.38 0.000221 757.00 reach 3 (south) 61,46 73.28 2.54 88.24 0.15 North Main 266679 2703.00 61,46 74.71 66.24 74.85 0.000273 3.02 reach 3 (south) 896.25 94.37 0.17 North Main each 3 (south) 66679 5237.00 61.46 75.8 76.01 0.000360 3.61 4351.03 3392.85 0.20 North Main 1306.00 59.80 71.62 62.86 71.66 0.000103 1.73 752.84 each 3 (south) 66000 87.29 0.10 North Main reach 3 (south) 266000 1925.00 59.80 73.08 63.72 73.15 0.000142 2.18 884.70 92.95 0.12 North Main reach 3 (south 266000 2703.00 59.80 74.59 64 63 74.69 0.00018 2.60 1262 96 1318.08 0 14 North Main each 3 (south) 266000 5237.00 59.80 75.67 66.95 75.79 0.000275 3.33 4525.36 3331.36 0.18 71.54 59.80 North Main 63.58 71.60 2.06 B2.94 0.13 reach 3 (south) 265565 1306.00 0.000168 634.81 North Main reach 3 (south) 265585 1925.00 59.80 72.97 64.54 73.07 0.000225 2.54 758.97 90.18 0.15 2360.50 2703.00 59.80 74.52 65.56 74.60 0.000199 2377.27 North Main each 3 (south) 2.54 0.15 North Main 68.12 reach 3 (south) 5237.00 59.80 75.60 75.67 0.000213 2.73 6338.50 3900.86 0.15 266565 63.58 71.59 0.000168 2,06 634.01 82.89 0.13 North Main reach 3 (south) 265509 1306.00 59.80 71.53 North Main 265509 1925.00 59,80 72.96 64.54 2.54 73.06 0.000226 757.79 90.12 reach 3 (south) 0.15 265509 2703.00 59.80 74.51 65.57 74.59 0.000202 2.55 2331.01 2296.11 0.15 North Main each 3 (south) sech 3 (south) 265509 5237.00 59.80 75.60 68.13 75.66 0.00021 6306.54 3900.59 0.15 North Main each 3 (south) 264000 1306 00 59.75 71.31 63.05 71.36 0.000136 1.95 668 62 79 67 0 12 North Main reach 3 (south) 264000 1925.00 59.75 72.65 63.91 72.74 0.000194 2.47 778.93 84.66 0.14 74.34 3320.50 North Main reach 3 (south) 264000 2703.00 59.75 64.86 74.37 0.000097 1.84 4641.94 0.10 5237.00 59.75 75.37 67.30 75.40 0.000133 1.83 8449.08 3870.91 North Main 264000 0.12 each 3 (south) North Main each 3 (south) 62000 1306.00 59.40 71.02 62 70 71 08 0.000146 2.01 648 65 77 AR 0.12 North Main reach 3 (south) 62000 1925.00 59.40 72 23 63 63 72 33 0.000217 2 58 745.10 82.03 0.15 North Main reach 3 (south) 262000 2703.00 59.40 73.82 64.61 73.94 0.000815 2.75 981.63 279.16 0.26 North Main reach 3 (south) 262000 5237.00 59.40 75.09 67.14 75.10 0.000152 1.34 7455.10 3741.01 0.12 North Main 1565.00 59.40 70.68 63.04 70.74 0.000212 1.94 805.40 140.41 0.14 reach 3 (south) 260000 59.40 71.75 63.96 71.84 0.000272 1144.03 North Main reach 3 (south) 260000 2291.00 2.33 664.39 0,16 North Main 3206.00 59 4D 73.06 64.96 73.13 0.000254 2.32 2044.48 718.94 0.16 reach 3 (south 260000 North Main each 3 (south 260000 6165.00 59.40 74.78 67.44 74.82 0.000214 2.00 6314.47 2312.22 0.15 1565.00 North Main reach 3 (south) 258000 58.66 70.33 62.05 70.40 0.000137 2.01 777.24 89.81 0.12 58.66 71.24 North Main 258000 2291.00 62.90 71.35 0.000222 2.67 859.66 93.19 0.15 reach 3 (south) North Mair 258000 58.66 72.42 63.83 72.58 0.000296 3.24 1266.59 1002.79 0.18 3206.00 reach 3 (south) 74.26 3345.60 North Main 258000 6165.0 58.66 66.26 74.36 0.000254 3.21 5939.65 0.17 each 3 (south) North Main each 3 (south) 258681 1565.00 58 71 70 13 62 22 70 20 0.000163 2 12 739 87 91 14 0.13 North Main reach 3 (south) 256681 2291.00 58.71 70.90 63.12 71.02 0.000271 2.82 811.17 94.63 0.17 58.71 72,28 0.000146 3862.57 2424.74 North Main reach 3 (south) 256681 3206.00 72.23 64.09 2.19 0.13 58.71 74.10 74.11 10148.54 66.57 3993.69 0.11 North Main reach 3 (south) 256681 6165.00 0.000120 1.39 58.27 70.12 70.14 0.00004 1.21 1297.21 138.87 0.07 North Main 256121 1565.00 60.74 reach 3 (south) 58.27 70.88 61.35 70.93 0.000073 1.63 1404.58 142 30 0.09 North Main reach 3 (south) 256121 2291.00 reach 3 (south) North Main 256121 3206.00 58.27 72.13 62 02 72.19 0.000186 1.96 1638.10 2498.00 0.14 North Main reach 3 (south) 256121 6165.00 58.27 74.07 63 78 74.08 0.000041 1 03 12733.36 3702.03 0.07

| River                                    | Reach                            | River Sta  | Q Total | Min Ch EJ   | W.S. Elev   | Crit W.S.   | E.G. Elev   | E.G. Slope  | Vel Chnt | Flow Area   | Top Width   | Froude # CN                                      |
|--|----------------------------------|--|---------|-------------|-------------|-------------|-------------|-------------|----------|-------------|-------------|--|
| 414 81 544                               |                                  |  | (cfa)   | (ft)        | (fi)        | (ft)        | (ft)        | (ft/ft)     | (lt/s)   | (sq ft)     | (ft)        |  |
|  |                                  |  |         |             |             |             |             |             |          |             |             |  |
| iorth Main                               | reach 3 (south)                  | 255591   | 1585.00 | 58.07       | 70.06       | 61.69       | 70.11       | 0.000139    | 1.75     | 1127.61     | 2907.24     | 0.1  |
| iorth Main                               | reach 3 (south)                  | 255591   | 2291.00 | 58.07       | 70.80       | 62.56       | 70.87       | 0,000197    | 2.15     | 1496.15     | 3087.44     | 0.1  |
| lorth Main                               | reach 3 (south)                  | 255591   | 3206.00 | 58.07       | 72.02       | 63.50       | 72.07       | 0.000215    | 2.14     | 2421.14     | 3427.10     | 0.1  |
| lorth Main                               | reach 3 (south)                  | 255591   | 6165.00 | 58.07       | 74.08       | 65.91       | 74.06       | 0.000020    | 0.69     | 17499.46    | 3508.43     | 0.0  |
|  |                                  |  |         |             |             |             |             |             |          |             |             |  |
| forth Main                               | reach 3 (south)                  | 254845   | 1565.00 | 58.07       | 70.01       | 61.47       | 70.03       | 0.000066    | 1.39     | 2741.59     | 3930.14     | 0.0  |
| lorth Main                               | reach 3 (south)                  | 254845   | 2291.00 | 58.07       | 70.74       | 62.33       | 70.75       | 0.000103    | 1.16     | 4195.98     | 4065.78     | 0,1  |
| iorth Main                               | reach 3 (south)                  | 254845   | 3208.00 | 58.07       | 71.99       | 63.25       | 71.99       | 0.000055    | 0.89     | 6874.98     | 4248.41     | 0.0  |
| lorth Main                               | reach S (south)                  | 254845   | 6165.00 | 58.07       | 74.05       | 65.65       | 74.05       | 0.000010    | 0.49     | 23448.63    | 4330.39     | 0.0  |
| 100000000000000000000000000000000000000  |                                  | X - 47 2 2 2   |         |             |             |             |             |             |          |             |             |  |
| Vorth Main                               | reach 3 (south)                  | 254785   | 1565.00 | 58.07       | 70.01       | 61.47       | 70.03       | D.000066    | 1.39     | 2740.58     | 3930.09     | 0.0  |
| forth Main                               | reach 3 (south)                  | 254765   | 2291.00 | 58.07       | 70.72       | 62.33       | 70.73       |             | 1.17     | 4163.62     | 4064.25     | 0.1  |
| lorth Main                               | reach 3 (south)                  | 254765   | 3206.00 | 58.07       | 71.98       | 63.25       | 71.99       | 0.000056    | 0.89     | 6854.98     | 4247.61     | 0.0  |
| lorth Main                               | reach 8 (south)                  | 254765   | 6165.00 | 58.07       | 74.04       | 65.65       | 74.04       | 0.000010    | 0.49     | 23401.74    | 4330.28     | 0.0  |
|  |                                  | Mark York to a   |         |             |             |             |             |             |          |             |             |  |
| orth Main                                | reach 8 (south)                  | 254000   | 1565.00 | 58.07       | 70.01       | 61.55       | 70.01       | 0.000016    | 0.70     | 7019.77     | 4062.78     | D.0  |
| lorth Main                               | reach 9 (south)                  | 254000   | 2291.00 | 58.07       | 70.69       | 62.46       | 70.69       | 0.000019    | 0.64     | 9137.96     | 4126.27     | 0.0  |
| orth Main                                | reach 3 (south)                  | 254000   | 3206.00 | 58.07       | 71.96       | 63.44       | 71.96       | 0.000013    | 0.55     | 13188.50    | 4247.87     | 0.0  |
| orth Main                                | reach 3 (south)                  | 254000   | 6165.00 | 58.07       | 74.03       | 65.99       | 74.03       | 0.000008    | 0.51     | 25296.38    | 4274.37     | 0.0  |
|  | A STATE OF THE SECOND CONTRACTOR | 32 323   |         |             |             |             |             |             |          |             |             |  |
| orth Main                                | reach 3 (south)                  | 252000   | 1585.00 | 58.08       | 69.78       | 61.85       | 69.85       | 0.000278    | 2.19     | 715.22      | 128.91      | 0.1  |
| orth Main                                | reach S (south)                  | 252000   | 2291.00 | 58.08       | 70.66       | 62.80       | 70.66       | 0.000021    | 0.64     | 8678.69     | 5956.97     | 0.0  |
| orth Makr                                | reach 3 (south)                  | 252000   | 3206.00 | 58.08       | 71.94       | 63.81       | 71.94       | 0.000013    | 0.57     | 12479.89    | 5964.99     | 0.0  |
| orth Main                                | reach 3 (south)                  | 252000   | 6165.00 | 58.08       | 74.01       | 66.38       | 74.01       | 0.000009    | 0.55     | 23821.92    | 5975.64     | 0.0  |
| Complete Street                          | 0 1200 120 120 120 120 120 120   | A 659  |         |             |             |             |             |             |          |             |             |  |
| orth Main                                | reach 3 (south)                  | 250860   | 1565.00 | 57.32       | 69.53       | 60.90       | 69.58       | 0.000199    | 1.67     | 937.80      | 194.03      | 0.   |
| korths Main                              | reach 3 (south)                  | 250860   | 2291.00 | 57.32       | 70.63       | 61.84       | 70.63       | 0.000041    | 0.81     | 5170.82     | 4955.99     | 0.0  |
| korth Mein                               | reach 3 (south)                  | 250860   | 3206.00 | 57.32       | 71.92       | 62,84       | 71.93       | 0.000030    | 0.80     | 7125.76     | 4961.09     | 0.0  |
| lorth Main                               | reach 3 (south)                  | 250860   | 6165.00 | 57.32       | 73.99       | 55.39       | 73.99       | 0.000036    | 1.00     | 10259.75    | 4982.23     | 0.0  |
| 2000                                     |                                  | P. (1)   |         |             |             |             |             |             |          |             |             |  |
| lorth Main                               | reach 3 (south)                  | 250000   | 1630.00 |             | 69.42       | 60.32       | 69.46       | 0.000093    | 1.60     | 1015.72     | 128.14      | 0.   |
| lorth Main                               | reach 8 (south)                  | 250000   | 2428.00 | 57.29       | 70.59       | 81.17       | 70.60       | 0.000053    | 0.91     | 5353.60     | 5016.13     | 0.   |
| orth Main                                | reach S (south)                  | 250000   | 3444.00 | 57.29       | 71.90       | 82.10       | 71.91       | 0.000033    | 0.81     | 8065.83     | 5056.93     | 0.   |
| orth Main                                | reach 3 (south)                  | 250000   | 6802.00 | 57.29       | 73.98       | 64.50       | 73.98       | 0.000007    | 0.42     | 30398.52    | 5098.31     | 0.   |
| Täikuni                                  | Contract Contract                | 1.00   |         |             |             |             |             |             |          |             |             |  |
| lorth Main                               | reach 3 (south)                  | 248748   | 1630.00 | 57.29       | 69.22       | 60.88       | 69.29       | 0.000228    | 2.08     | 789.79      | 131.96      | 0.   |
| lorth Main                               | reach 3 (south)                  | 248748   | 2428.00 | 57.29       | 70.47       | 61.88       | 70.50       | 0.000219    | 1.78     | 2197.09     | 3903.90     | 0.   |
| lorth Main                               | reach 3 (south)                  | 248748   | 3444.00 | 57.29       | 71.82       | 62.94       | 71.85       | 0.000136    | 1.63     | 3473.02     | 3915.58     | 0.   |
| lorth Main                               | reach 3 (south)                  | 248748   | 6802.00 | 57.29       | 73.97       | 65.66       | 73.97       | 0.000013    | 0.61     | 22145.65    | 3933.06     | 0.   |
| Tricklik Sin                             | Charles Andrews                  | COST FATE V  |         |             |             |             |             | 1           |          |             |             |  |
| orth Main                                | reach 3 (south)                  | 248519   | 1630,00 | 57.29       | 69.17       | 60.88       | 69.24       | 0.000225    | 2.08     | 783.B5      | 127.92      | 0.1  |
| iorth Main                               | reach 3 (south)                  | 248519   | 2428.00 | 57.29       | 70.42       | 61.88       | 70.48       | 0.000234    | 1.79     | 2154.66     |             | 0.   |
| lorth Main                               | reach 3 (south)                  | 248519   | 3444.00 | 57.29       | 71.80       | 62.94       | 71.83       | 0.000139    |          | 3448.70     |             | 0.   |
| lorth Main                               | resols 3 (south)                 | 248519   | 6802.00 | 57.29       | 73.96       | 65.68       | 73.96       |             | 0.61     | 22115.22    | 3933.00     | 0.0  |
| 113.00 10 8                              |                                  | Wilder of the control |         | 777.        |             |             | -           |             |          |             |             |  |
| forth Main                               | reach 3 (south)                  | 248000   | 1630.00 | 57.30       | 69.05       | 61.28       | 69.13       | 0.000182    | 2.23     | 731.48      | 90.72       | 0.   |
| lorth Main                               | reach 3 (south)                  | 248000   | 2428.00 | 57.30       | 70.39       | 62.30       | 70.40       | 0.000058    | 1.22     | 5049.88     | 3888.88     | 0.   |
| iorth Main                               | reach 3 (south)                  | 248000   | 3444.00 | 57.30       | 71.78       | 63.33       | 71.79       | 0.000037    | 1.00     | 7785.02     | 3970.08     | 0.   |
| lorth Main                               | reach 3 (eouth)                  | 248000   | 6802.00 | 57.30       | 73.95       | 66.06       | 73.96       | 0.000014    | 0.87     | 22306.18    | 4017.27     | 0.   |
| NESTLAND                                 | 5 76 X4, X740.76                 | 1 4 Sept.  |         |             |             |             |             | 1           |          |             |             |  |
| lorth Main                               | reach 3 (south)                  | 247476   | 1630.00 | 57.30       | 68.68       | 66.70       | 68.90       | 0.001678    | 3.74     | 436.40      | 118.76      | 0.   |
| lorth Main                               | reach 3 (south)                  | 247476   | 2428.00 | 57.30       | 70.37       | 67.29       | 70.38       | <del></del> |          |             | 3919.16     | 0.   |
| lorth Main                               | reach 3 (south)                  | 247476   | 3444.00 |             | 71.77       |             | 71.77       | 0.000038    |          |             | 4071.42     |  |
| lorth Main                               | reach 3 (south)                  | 247476   | 6802.00 |             | 73.95       |             |             | <del></del> | -        |             |             | 0  |
| - 785 a 44                               |                                  | W. S. S. S. S.   |         | 1           |             |             |             |             |          |             |             |  |
| Vorth Main                               | reach 3 (south)                  | 247400   | 1630.00 | 57.30       | 68.58       | 66.61       | 68.77       | 0.001549    | 3.54     | 460.34      | 129,47      | 0.   |
| lorth Main                               | reach 3 (south)                  | 247400   | 2428.00 |             | 70.37       |             |             |             |          |             |             |  |
| forth Main                               | reach 3 (south)                  | 247400   | 3444.00 |             | 71.77       |             |             |             |          |             | 4063.35     |  |
| forth Main                               | reach 3 (south)                  | 247400   | 6802.00 |             |             |             |             |             |          |             |             |  |
| J. J. J. J. J. J. J. J. J. J. J. J. J. J |                                  | The defenden   |         |             |             |             |             |             |          |             |             |  |
| lorth Main                               | reach 3 (south)                  | 246000   | 1630.00 | 57.05       | 68.06       | 60.62       | 68.14       | 0.000196    | 2.25     | 724.18      | 94.02       | 0  |
| lorth Main                               | reach 3 (south)                  | 248000   | 2428.00 |             |             |             |             |             | 1.56     |             |             |  |
| lorth Main                               | reach 3 (south)                  | 248000   | 3444.00 | <del></del> |             |             | <del></del> |             |          |             |             |  |
| forth Main                               | reach 3 (south)                  | 248000   | 6802.00 |             |             |             |             |             |          |             |             |  |
| a giradadi fira                          | E HORE IN THE PROPERTY.          | ( 1938-198-198-198-198-198-198-198-198-198-19  |         | 1           |             | T           |             | 1           |          |             |             | 1  |
| iorth Main                               | reach 3 (south)                  | 244000   | 1630.00 | 57.05       | 67.42       | 61.42       | 67.57       | 0.000431    | 3.07     | 530.55      | 77.52       | 0  |
| orth Main                                | reach 3 (south)                  | 244000   | 2428.00 |             |             |             |             |             |          | <del></del> |             |  |
| orth Main                                | reach 3 (south)                  | 244000   | 3444.00 |             |             |             |             |             |          | <del></del> |             |  |
| orth Main                                | reach 3 (south)                  | 244000   | 6802.00 |             |             |             |             |             |          |             |             |  |
|  |                                  |  |         |             |             |             | 1           |             | 1        |             | 1           | T  |
| lorth Main                               | reach 3 (south)                  | 242500   | 1630.00 | 56.61       | 66.77       | 61.05       | 66.92       | 0.000432    | 3.11     | 523.94      | 75.15       | 0  |
| lorth Main                               | reach 3 (south)                  | 242500   | 2428.00 |             | 69.12       |             |             |             |          | <del></del> |             |  |
| lorth Main                               | reach 3 (south)                  | 242500   | 3444.00 | _           | <del></del> |             | <del></del> | <del></del> | +        |             |             |  |
| lorth Main                               | mach 3 (south)                   | 242500   | 6802.00 |             | 73.87       |             |             |             |          |             |             |  |
| 10101 (5/00))                            | 2 (3) about down                 | 2.2  | 0002.00 | 35.01       | 70.0        |             | 70.07       | 3.000,040   | 1.02     | .4020.71    | 0,00.00     | <del>                                     </del> |
| Vorth Main                               | reach 3 (south)                  | 241505   | 1630.00 | 56.61       | 66.37       | 60.37       | 66.51       | 0.000399    | 3.03     | 537.34      | 74.90       | , ,  |
| Vorth Main                               | reach 3 (south)                  | 241505   | 2428.00 | <del></del> |             |             | <del></del> |             |          |             |             | <del></del>                                      |
|  |                                  |  |         | _           | 70.45       | <del></del> |             |             |          |             |             |  |
| Vorth Main                               | reach 3 (south)                  | 241505   | 3444.00 |             |             | <del></del> |             |             |          | +           | <del></del> | ·  |
| Vorth Main                               | reach 3 (south)                  | 241505   | 6802.00 | 56.61       | 73.18       | 65.41       | 73.70       | 0.000880    | 5.98     | 1138.19     | 845.1       | 0  |
| Vorth Main                               |                                  | 1040055  |         |             |             |             |             |             |          |             |             | <del> </del>                                     |
|  | reach 3 (south)                  | 240950   | 1630.00 | 56.61       | 66.13       | 60.53       | 66.26       | 0.000440    | 3.07     | 531.06      | 79.20       | )  |

Plan: P. 25% 3 (Continued) I River Sta Q Total HEC DAS W.S. Elev Crit W.S. E.G. Elev E.G. Slope Min Ch El Vel Chnl Flow Area Rive Reach Top Width | Froude # Chi (fVs) (cfs) (ft) (11) **(ft)** (ft) (fVft) (sq ft) (ft) North Main 56.61 62.64 reach 3 (south) 240950 70.20 70,43 3444 00 0.00046 3.86 892 5 98.30 0.23 North Main 6802.00 56.61 72.65 65.42 73.20 0.000918 5.93 1147.43 327.48 each 3 (south) 0.32 240919 1630.00 66.12 60.53 66.26 0.000442 North Main each 3 (south) 56.61 3.08 529.92 79.13 0.21 ech 3 (aouth 2428.00 North Main 240919 58.61 68.51 61.55 68.68 0.000401 3.31 732.58 90.53 0.21 ech 3 (south North Main 240919 3444.00 56.61 70.18 62.64 70.42 0.000471 3.87 891.05 98.23 0.23 North Main reach 3 (south) 240919 6802.00 56.61 72.62 65.42 73.17 0.000926 5.95 1143.70 320.40 0.32 55.47 65,88 59.11 65,96 2.39 each 3 (south) 240000 1630.00 0.000225 681.19 89.07 0.15 North Main North Main 240000 2428.00 55.47 68.28 60.01 68.39 0.000223 2.68 98.80 reach 3 (south) 906.89 0.16 reach 3 (south) 3444.00 North Main 240000 55.47 69.91 60.97 70.07 0.000280 3.21 1073.20 105.40 0.18 each 3 (south) 6802.00 0.000636 North Main 55.47 72.01 63.53 72,43 5.22 1303.54 113.91 0.27 North Mair ach 3 (south) 239550 1630.00 55.23 65.77 58.93 65.86 0.000231 2.42 673.89 88.84 0.15 North Main reach 3 (south) 2428.00 55.23 68.17 59.85 68.29 0.000229 2.70 900.14 99.37 0.18 55.23 69.94 3.23 North Main reach 3 (eouth) 239550 3444.00 69.78 80.88 0.000289 1064.92 106.39 0.18 North Main 72.13 0.000684 reach 3 (south) 6802.00 55.23 71.69 63.48 5.33 1276.51 114.82 0.28 2.43 North Mair 239468 1630.00 55.23 65.75 58 93 65 R4 0.000233 672.14 88.75 0.16 each 3 (south) North Main 2428.00 55.23 68,16 59.86 68.27 0.000230 2.70 698.21 99.29 0.16 each 3 (aouth) North Main reach 3 (south 239468 3444 00 55.23 69.75 60.88 69.91 0.000291 3.24 1062.27 106.28 0.18 North Main reach 3 (south) 239468 6802.00 55.23 71.63 63.46 72.07 0.000694 5.36 1269.41 114.35 0.28 North Mein 1630.00 54.74 65.42 58.50 65.5 0.000220 2.40 679.90 86.66 0.15 each 3 (south) 238000 59.41 67.94 0.000221 North Mair reach 3 (south) 238000 2428.00 54.74 67.82 2.70 899.11 95.73 0.16 North Main each 3 (south) 238000 3444 00 54.74 69.32 80.40 69.49 0.000291 3.29 1046.44 101.40 0.18 each 3 (south) North Main 238000 6802.00 54.74 71.35 62.99 71.42 0.000232 2.84 6336.39 2475.59 0.18 58.13 65.36 2.39 681.87 85.75 0.15 North Main reach 3 (south) 237265 1630.00 54.61 65.27 0.000215 North Main 54.61 59.07 67.78 0.000219 2.70 898.8 94.95 0.15 237265 2428.00 67.67 reach 3 (south) North Main 69.27 0.000295 1038.65 101.36 0.18 reach 3 (south) 237265 3444.00 54.61 69.10 60.09 3.32 6802.00 54.61 82.75 71.30 0.000082 1.50 10072.75 2925.97 0.09 North Main ech 3 (eouth) 237265 71.29 North Mair ch 3 (south) 236620 1630.00 54.53 65.13 58.02 85.21 0.000198 2.28 715.85 91.83 0.14 North Main reach 3 (south) 236620 2428.00 54.53 67.54 58,91 67.64 0.000199 2.58 948.58 101.96 0.15 3444.00 3,15 1095.05 236620 54.53 68.93 59.89 69.09 0.00026 107.83 0.17 North Main reach 3 (south) North Main 54.53 71.26 62.45 71.27 0.000049 1.44 10945.96 2204.78 0.08 ach 3 (south) 236620 6802.00 North Mair reach 3 (south) 238000 1630.00 54.54 64.98 58.03 65.07 0.000234 2.45 665.53 86 41 0.16 North Main reach 3 (south) 236000 2428.00 54 54 67.38 58.97 67.50 0.000235 2.74 884 96 96 57 0.16 North Mair each 3 (south) 238000 3444 00 54.54 68.72 60.02 68.89 0.000321 3.38 1017.71 102.23 0.18 North Mair reach 3 (south) 236000 6802.00 54.54 71.22 62.70 71.24 0.000118 1.85 7823.69 2098.66 0.11 1630.00 54.49 64.82 58.23 64.93 0.000313 2.76 591.64 79.64 0.18 North Main reach 3 (south) 235490 North Main 235490 2428.00 67.21 59.26 67.36 0.000308 3.05 795.00 90,15 0.18 reach 3 (south North Main reach 3 (south) 3444.00 54.49 68.46 60.37 68.70 0.000425 3.77 912.83 95.71 0.22 54.49 71.07 63.23 71.13 0.000475 2.48 4240.73 1351.96 0.21 North Mair reach 3 (south 235490 6802.00 54.49 64.80 58.23 64.92 0.000315 590.39 North Main reach 3 (south 235442 1630.00 2.76 79,57 0.18 59.26 67.34 0.000310 793.61 90.08 0.18 North Main reach 3 (south) 235442 2428.00 54.49 67.20 3.06 3444.00 54.49 68.46 60.37 0.00042 3.78 910.82 0.22 235442 North Main reach 3 (south) 235442 0.000470 1346.49 0.21 North Main 6802.00 reach 3 (south) North Main reach 3 (south) 234280 1630.00 53.37 84 66 56.31 64.71 0.000098 1 73 940.13 107.55 0.10 North Main reach 3 (south 234280 2428.00 53.37 67.06 57.10 67.12 0.000107 2.01 1209.36 117.28 0.11 68.26 57.96 68.36 0.000156 2.54 1353.56 122.18 0.13 North Main reach 3 (south) 234280 3444.00 53.37 4336.86 53.37 70.50 60.26 70.59 0.000415 2.75 2123.72 0.20 6802.00 North Main reach 3 (south) 234280 North Main below diversion 112500 785.00 70.00 78.78 72.20 78.82 0.000077 1.65 488 01 71.22 0.10 1580.00 70.00 R1 43 73 44 81 46 0.000061 1 79 3126 86 2323 44 0.10 North Main below diversion 112500 North Main below diversion 112500 2700.00 70.00 84.14 74.82 84.15 0.000013 0.97 13560.22 5466,76 0.05 0.000007 10530,30 North Ma below diversion 112500 5600 00 70.00 86.93 77.42 86.94 0.82 30575.53 0.04 78.70 72.28 78.74 1.72 467.36 69.71 0.11 111500 70.00 North Main below diversion 785.00 North Main below diversion 1580.00 70.00 73.56 81.40 0.000051 1.62 3698.72 2554.06 0.09 111500 84 13 74.96 84 14 0.000012 0.90 15055 07 5481 35 0.04 North Mali below diversion 2700.00 70.00 North Main 111500 5600.00 70.00 86.92 77.59 86.92 0.000000 0.77 33911.29 9345,24 0.03 78.50 0.000086 1.67 483.79 79.41 0.11 70.00 North Mair below diversion t08769 785.00 78.45 72.35 81.19 0.000113 2.34 990.57 563.39 0.13 1580.00 70.00 81.11 73.61 North Main below diversion 108769 2700.00 70.00 74.99 84.06 0.000058 2.01 4563.22 2156.19 0.10 108769 North Main below diversion 86.91 0.000017 1.25 26222.95 11413.89 0.06 108769 5600.00 70.0 86.90 77.47 North Main 0.11 108564 785.00 70.00 78.43 72.23 78.47 0.000087 1.69 476.27 74.18 North Mair North Main 0.14 below diversion 108564 1580.00 70.00 81,06 73,47 81.15 0.000124 2.47 685.47 85.08 2533.33 2852.27 0.14 84.01 0.000123 2.91 North Mai slow diversion 108584 2700.00 70.00 83.90 74.83 77.38 26235.57 11412.19 0.06 86.90 0.00001 1.26 86.90 North Main below diversion 108564 5600.00 70.00 North Main 108524 Bridge w diversion North Main elow diversion 108484 785.00 70.00 78.40 72.23 78.45 0.000089 1.69 474.17 74.06 0.11 680.47 84.84 0.14 B1.09 0.000126 North Main elow diversion 108484 1580.00 70.00 81.00 73.47 2.48 0.15 2200.69 2526.77 0.000133 3.01 North Main elow diversion 108484 2700.00 70.00 83.77 74.83 83.90

DAS Plan D 25% 3 (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft/ft) (ft) (fVs) (aq ft) (ft) North Mair Now divers 108484 5600.00 70.00 86.84 77.38 88.88 1.26 28155.98 11365,69 0.06 North Mair below diversion 08424 785.00 70.00 78.39 72.23 78.44 0.000089 1 70 473.47 74.03 0.11 North Main holow diversi 108424 1580:00 70.00 80.98 73.47 81.08 0.000127 2.48 679.27 84.78 North Main below div 108424 2700.00 70.00 83.76 74.84 83.89 0.000135 3.02 2166.93 2491 35 0.15 5600.00 North Main below diversion 108424 70.00 86.87 77.38 86.88 0.000018 1.27 26145.19 11373.29 0.06 North Main noissayib wol 08200 785.00 70.00 78 37 72.20 78.42 0.000090 1.71 469.23 72.27 0.11 North Main below diversion 108200 1580.00 70.00 80.95 73,43 81.05 0.000129 2.51 668.90 82.37 0.14 North Main 2700.00 70.00 83.74 74.81 83 86 0.000129 2.98 2536.98 2845.48 0.15 North Main below diversion 5600.00 70.00 88.86 77.36 86.87 0.000019 1.32 24095.59 11139.88 0.06 North Main below diversion 107200 785 00 70.00 78.29 72.07 78.33 0.000081 1.62 491.9B 74.79 0.11 North Main below diversion 107200 1580 00 70.00 80.63 73.25 80.92 0.000119 2.40 694.55 84.38 0.14 North Main low diversion 107200 2700.00 70.00 83.65 74.57 83.73 0.000100 2.60 3513.33 3474.5 0.13 107200 5600.00 70.00 66.84 77.07 86.85 0.000016 1.23 25539.05 10740.48 0.05 105420 North Make oelow diversio 880.00 70.00 78.12 72.28 78.17 0.000091 1.68 531.50 84.02 0.11 North Main w diversion 105420 1517.00 70.00 80.65 73.14 80.71 0.000094 2.11 757.22 94 88 0,12 2546.00 North Main below diversion 70.00 83.52 74.28 83.57 0.000064 2.07 4688.42 4222,28 0.10 North Main below diversion 105420 4853.00 70.00 76.22 86.83 0.000011 1.00 23991.58 10635.20 0.04 North Main below diversion 880.00 70.00 78.10 72.46 78.16 0.000125 2.07 452.83 72.68 0.13 North Mair notesevib woled 105350 1517.00 70.00 80.59 73.42 80 70 0.000137 2.63 646 R2 82.64 0.15 North Make محلومينال بتعطم 2546.00 70.00 83.49 74.65 83.57 0.000095 2.59 3895.74 3359 47 0.13 North Main 105350 4853.00 70.00 88.81 76.81 86.62 0.000013 1.12 24220.39 10704.35 0.05 North Main below diversion 105335 Bridge North Mair 105320 70.00 880.00 78.08 72.46 78 15 0.000126 2.07 451.96 72.63 0.13 below diversion North Mai 105320 1517.00 70.00 80.55 73.42 80.65 0.000139 2.64 643.05 82.46 0.15 2546.00 North Main alow diversion 105320 70.00 83.45 74.65 83.53 0.000098 2.63 3761.97 3245.83 0.13 North Main noisnevib wole 105320 4853.00 70.00 88.79 76.81 88.80 0.000013 1.13 23985.75 10674.56 0.05 North Main below diversion 105235 880.00 70.00 78.07 72.46 78.14 0.000126 2.08 451.26 72.60 0.13 below diversion 105235 1517.00 70.00 80.54 73 42 80 64 0.000140 2.64 642.17 82.42 0.15 North Mair elow diversion 105235 2546,00 70.00 83.43 74.85 83.52 0.000104 2.71 3471.17 3074.72 0.13 North Main noisrevib wole 105235 4853.00 70.00 86.79 76.81 86.79 0.000014 1.17 23132.68 10570.35 0.05 North Meir 104800 880.00 70.00 78.01 72.39 78.08 0.000128 2.09 450.00 73.25 0 14 North Main below diversion 104800 1517.00 70.00 80.47 73.37 80.58 0.000142 2.66 642.93 83.77 0.15 North Me below diversion 104800 2546.00 70.00 83.29 74.61 83.48 0.000160 3.34 1338,70 1727.80 0.17 North Mair below diversion 104800 4853.00 70.00 88.77 76.78 88.78 0.000022 1.46 0.06 North Mair elow diversion 104146 880.00 70.00 77.94 78.00 0.000115 1.97 475.79 77.32 0.13 North Mair below diversion 104146 1517.00 70.00 80.39 80.48 0.000127 2.51 679.81 89.09 0.14 North Main below diversion 104144 2546.00 70.00 83.20 83.35 0.000148 3.20 1151.48 1093.93 0.16 70.00 North Main below diversion 104146 4853.00 86.75 0.000032 1.74 17147.72 8253.45 0.08 North Main below divers 104118 880.00 70.00 77.93 77 99 0.000115 1 97 475.52 77.30 0.13 below diversion 104116 1517.00 70.00 80.39 80,48 0.000128 2.51 679.46 89.07 0.14 North Main below diversion 104118 2546.00 70.00 83.20 83.35 0.000148 3.20 1146.64 1087.27 0.16 North Mair below diversion 104116 4853.00 70.00 86.74 86.75 0.000032 1.75 17080.61 8235.94 0.08 North Main below diversion 103006 880 00 70.00 77.81 77.87 0.000122 2.01 468.03 76.75 0.13 North Main 103006 1517.00 70.00 80.25 80.35 0.000134 2.55 667.33 0.14 North Mair below diversion 103006 2546.00 70.00 83.03 83.19 0.000157 3.27 988 23 873.34 0.16 North Mair 103008 4853.00 70.00 86.71 86.73 0.000033 1.77 16885 66 8184.95 0.08 below diversion North Main 102913 880.00 70.00 77.80 77.87 0.000126 74.71 2.04 456 68 0.13 North Main below diversion 102913 1517.00 70.00 80.24 80.34 0.000138 84.78 2.59 650.80 0.15 North Main below diversion 102913 2546.00 70.00 83.02 83.18 0.000160 3.30 942.78 0.18 below dis North Mair 102913 4853.00 70.00 86.69 86.73 0.000053 2.25 12270.14 6717.87 0.10 below diversion North Main 102850 880.00 70.00 77.80 77.86 0.000123 2.01 464.93 76.69 0.13 North Main below dive 102650 1517.00 70.00 80.23 73.16 80.33 0.000135 2.56 665.57 88.35 0.14 North Main below diversion 102850 2546.00 70.00 B3.01 74.37 83,17 0.000158 970.70 852.23 3,27 0.16 North Mair below diversion 102850 4853.00 70.00 86.69 76.47 86.71 0.000033 16712.74 8139.35 0.08 North Main below diversion 102835 Bridge helow diversion North Main 102820 880.00 70.00 77.79 77.85 0.000123 76.64 2.02 464.08 0.13 North Main below diversion 102820 1517.00 70.00 80.21 80.31 2.58 664.35 0.000136 88.29 0.14 North Main below diversion 102820 2546.00 70.00 62.98 83.14 3.28 956,87 145.04 0.15 North Main dow diversion 102820 4853.00 70.00 88 67 0.000034 1.80 16506.21 8084.61 0.08 North Mair below diversion 102600 680,00 70.00 77.74 77.82 0.000147 2 18 424 10 68.98 0 14 North Main below diversion 102600 1517.00 70.00 80.16 80.2B 0.000161 2.78 601.09 77.48 0.16 North Main below diversion 102600 2546.00 70.00 82.90 83.09 0.000189 3.56 847.50 114.41 0.18 North Mair w diversion 102600 4853.00 70.00 86.61 86.66 10468.77 0.000076 2.69 6078.66 0.12

North Main

North Main

below diversion

below div

101500

101500

880.00

1517.00

70.00

70.00

77.58

79.99

77.65

80.10

0.000149

0.000161

2.17

2.75

427.51

611.79

71.81

81.54

0.14

| River                    | Plan P 25%<br>Reach                | River Sta      | Q Total            | Min Ch El | W.S. Elev      | Crit W.S. | E.G. Elev      | E.G. Slope | Vel Chnl | Flow Area         | Top Width      | Froude # Chi                          |
|--------------------------|------------------------------------|----------------|--------------------|-----------|----------------|-----------|----------------|------------|----------|-------------------|----------------|---------------------------------------|
|                          |                                    |                | (cfs)              | (ft)      | (ft)           | (ft)      | (ft)           | (fVH)      | (ft/e)   | (sq ft)           | (ft)           | <b>使整理的主要</b>                         |
| North Main               | below diversion                    | 101500         | 2546.00            | 70.00     | 82.70          |           | 82.68          | 0.000187   | 3.50     | 864.47            | 120.06         | 0.18                                  |
| North Main               | below diversion                    | 101500         | 4853.00            | 70.00     | 86.41          |           | 86.55          | 0.000136   | 3.57     | 6844.35           | 5489.90        | 0.16                                  |
|                          |                                    | E \$ 12.0 % X  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Mein               | below diversion                    | 100000         | 880.00             | 70.00     | 77.33          |           | 77.40          | 0.000192   | 2.21     | 401.91            | 72.04          | 0.16                                  |
| North Main               | below diversion                    | 100000         | 1517.00            | 70.00     | 79.73          |           | 79.84          | 0.000182   | 2.69     | 585.85            | 80.75          | 0.16                                  |
| North Main               | below diversion                    | 100000         | 2548.00            | 70.00     | 82.42          |           | 82.59          | 0.000198   | 3.38     | 824.62            | 113.37         | 0.18                                  |
| North Main               | below diversion                    | 100000         | 4853.00            | 70.00     | 85.94          |           | 86.26          | 0.000261   | 4.67     | 1491.88           | 349.29         | 0.22                                  |
|                          | 11.10                              |                |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 99900          | 880.00             | 70.00     | 77.30          |           | 77.37          | 0.000180   | 2.16     | 410.98            | 72.44          | 0.15                                  |
| North Main               | below diversion                    | 99900          | 1517.00            | 70.00     | 79.71          |           | 79.82          | 0.000174   | 2.64     | 596.35            | 81.52          | 0.16                                  |
| North Main               | below diversion                    | 99900          | 2546.00            | 70.00     | 82.40          |           | 82.57          | 0.000190   | 3.33     | 837.36            | 114.50         | 0,18                                  |
| North Main               | below diversion                    | 99900          | 4853.00            | 70.00     | 85.91          |           | 86,22          | 0.000255   | 4.63     | 1437.83           | 283,28         | 0.21                                  |
|                          |                                    |                |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 99708          | 880,00             | 70.00     | 77.26          |           | 77.34          | 0.000191   | 2.16     | 410.41            | 76.27          | 0.16                                  |
| North Main               | below diversion                    | 99708          | 1517.00            | 70.00     | 79.67          |           | 79.78          | 0.000175   | 2.61     | 606.79            | 86.47          | 0.16                                  |
| North Main               | below diversion                    | 99708          | 2549.00            | 70.00     | 82.37          |           | 82.53          | 0.000186   | 3.25     | 861.27            | 114.67         | 0.17                                  |
| North Main               | below diversion                    | 99708          | 4853.00            | 70.00     | 85.87          |           | 86.17          | 0.000249   | 4.54     | 1353.09           | 180.15         | 0.21                                  |
|                          |                                    |                |                    | 70.00     | 77.00          |           | 77.04          | 0.000004   | 2.36     | 074.70            | 67.04          | 0.17                                  |
| North Main               | below diversion                    | 99592          | 890.00             | 70.00     | 77.22          |           | 77.31<br>79.75 | 0.000224   | 2.88     | 374.76<br>545.79  | 75.40          |                                       |
| North Main               | below diversion                    | 99592          | 15.7.00            | 70.00     | 79.62          |           | 82.50          | 0.000212   | 3,62     | 766.40            | 107.59         |                                       |
| North Main               | below diversion                    | 99592          | 2546.00            | 70.00     | 82.30          |           |                | 0.000230   | 5.05     |                   | 144.43         |                                       |
| North Main               | below diversion                    | 99592          | 4853.00            | 70.00     | 85.76          |           | 86,13          | 0.000312   | 5.05     | 1213.36           | 144,43         | 0.23                                  |
| NAMES OF STREET          |                                    | opero          | 990.00             | 70.00     | 77.22          | 72.30     | 77.29          | 0.000191   | 2.13     | 414.07            | 72.36          | 0.16                                  |
| North Main               | below diversion                    | 99550          | 1517.00            | 70.00     | 79.63          | 72.30     | 79.73          | 0.000191   | 2.13     | 599.96            | 72.36<br>82.26 | 0.16                                  |
| North Main               | below diversion                    | 99550          | 1517.00<br>2546.00 | 70.00     | 82.33          | 74.48     | 82.48          | 0.000197   | 3.04     | 845.00            | 118,10         |                                       |
| North Main               | below diversion<br>below diversion | 99550<br>99550 | 4853.00            | 70.00     | 85.86          | 76.63     | 86.07          | 0.000218   | 3.82     | 2289.72           | 2027.22        | 0.20                                  |
| North Main               | Polow diversion                    | 3200           | 4033,00            | 70.00     | 65.86          | 70.03     | 50.07          | 0.000240   | 3.32     | 2600.12           | 2021.22        | 0,20                                  |
| North Main               | below diversion                    | 99535          | Bridge             |           |                |           |                |            |          |                   |                |                                       |
| region (vicial)          | J-O-VW UITOIBIUI                   |                | Single             |           |                |           |                |            |          |                   |                | 1                                     |
| North Main               | below diversion                    | 99620          | 880.00             | 70.00     | 77.21          | 72.30     | 77.28          | 0.000192   | 2.13     | 412.98            | 72.30          | 0.16                                  |
| North Main               | below diversion                    | 99620          | 1517.00            | 70.00     | 79.61          | 73.24     | 79.71          | 0.000199   | 2.54     | 598.41            | 82.19          |                                       |
| North Main               | below diversion                    | 99520          | 2546.00            | 70.00     | 82.30          | 74.48     | 82.44          | 0.000221   | 3.05     | 840.79            | 117.46         |                                       |
| North Main               | below diversion                    | 99520          | 4853.00            | 70.00     | 85.80          | 76.60     | 86.01          | 0.000248   | 3.87     | 2152.42           |                |                                       |
| N Section 1985           |                                    | 1445           |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 99507          | 880.00             | 70.00     | 77.21          |           | 77.28          | 0.000192   | 2.13     | 412.79            | 72.29          | 0.16                                  |
| North Main               | below diversion                    | 99507          | 1517.00            | 70.00     | 79.61          |           | 79.71          | 0.000199   | 2.54     | 598.19            | 82.17          | 0.17                                  |
| North Main               | below diversion                    | 99507          | 2546.00            | 70.00     | 82.30          |           | 82.44          | 0.000221   | 3.05     | 840.43            | 117.41         | 0.18                                  |
| North Main               | below diversion                    | 99507          | 4853.00            | 70.00     | 85.78          |           | 86.00          | 0.000250   | 3.88     | 2126.48           | 1998.75        | 0.20                                  |
| 50 / A. Barrett          | 3000 24 7 TOM                      | * ( A . J )    |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 98900          | 896.00             | 70.00     | 77.08          |           | 77.16          | 0.000205   | 2.22     | 406.04            | 74.33          | 0.16                                  |
| North Main               | below diversion                    | 98900          | 1573.00            | 70.00     | 79.47          |           | 79.59          | 0.000195   | 2.73     | 593.28            | 82.19          | 0.17                                  |
| North Main               | below diversion                    | 98900          | 2645.00            | 70.00     | 82.13          |           | 82.31          | 0.000209   | 3.42     | 846.92            | 104.58         | 0.18                                  |
| North Main               | below diversion                    | 98900          | 4959.00            | 70.00     | 85.52          |           | 85.84          | 0.000276   | 4.71     | 1474.82           | 431.92         | 0.22                                  |
| \$0-\$4K.W.              |                                    | 1781A # +81    |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 97900          | 896.00             | 70.00     | 76.87          |           | 76.95          | 0.000214   | 2.23     | 402.89            | 75.43          | 0.17                                  |
| North Main               | below diversion                    | 97900          | 1573.00            | 70.00     | 79.28          | i         | 79.39          | 0.000197   | 2.72     | 595.89            | 84.80          | 0.17                                  |
| North Main               | below diversion                    | 97900          | 2645.00            | 70.00     | 81.92          |           | 82.10          |            |          | 854.86            |                |                                       |
| North Main               | below diversion                    | 97900          | 4959.00            | 70.00     | 85.25          |           | 85.56          | 0.000270   | 4.62     | 1787.99           | 1268.65        | 0.22                                  |
|                          |                                    |                |                    |           |                |           |                |            |          |                   | ļ              | L                                     |
| North Main               | below diversion                    | 95000          | 896.00             |           | 76.44          |           | 76.49          |            |          | 476.37            | 73.79          |                                       |
| North Main               | below diversion                    | 95000          | 1573.00            |           | 78.81          |           | 78.91          | 0.000134   |          | 663.33            |                |                                       |
| North Main               | below diversion                    | 95000          | 2645.00            |           | 81.38          |           | 81.54          |            |          | 918.86            |                |                                       |
| North Main               | below diversion                    | 95000          | 4959.00            | 88.00     | 84.49          |           | 84.80          | 0.000244   | 4.64     | 1789.50           | 978.94         | 0.21                                  |
| 3 T. J. B.               |                                    |                |                    | <u> </u>  |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 94730          | 896.00             |           | 76.41          |           | 76.47          |            |          | 458.99            |                |                                       |
| North Main               | balow diversion                    | 94730          | 1573.00            |           | 78.77          |           | 78.87          |            |          |                   |                |                                       |
| North Main               | below diversion                    | 94730          | 2645.00            |           | 81.32<br>84.31 |           | 81.49          |            |          | 857.17<br>1497.71 |                |                                       |
| North Main               | below diversion                    | 94730          | 4959.00            | 68.00     | 84.31          |           | 54.71          | 0.000307   | 5.10     | 1497.71           | 1303,1         | 0.23                                  |
| No. 45 80 12             | Line and                           | Diges          | 896.00             | 68.00     | 76.40          | 70.34     | 76.45          | 0.000109   | 1.89     | 483.42            | 73.74          | 0.12                                  |
| North Main               | below diversion                    | 94655          | 1573.00            |           | 78.76          |           |                |            |          |                   |                |                                       |
| North Main               | below diversion<br>below diversion | 94655          | 2645.00            |           | 81.31          |           |                |            |          |                   | -              |                                       |
| North Main<br>North Main | below diversion                    | 94855          | 4959.00            |           | 84.35          |           |                |            |          |                   |                | · · · · · · · · · · · · · · · · · · · |
| INJULINARI)              | DEIOH GIVENED)                     |                | 4000.00            | 00.00     | 04.00          | 1.7.17    | 34.00          | 3.000201   |          |                   | 1              |                                       |
| North Main               | below diversion                    | 94635          | Bridge             |           |                |           |                |            |          |                   |                |                                       |
| · ··vier mail)           | PROPULITORNII                      | 17976          | Singe              |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 94620          | 896.00             | 68.00     | 76.37          | 1         | 76.43          | 0.000110   | 1.90     | 481.53            | 73.64          | 0.12                                  |
| North Main               | below diversion                    | 94620          | 1573.00            |           | 78.73          |           | 78.82          |            |          |                   |                |                                       |
| North Main               | below diversion                    | 94820          | 2645.00            |           | 81.28          |           | 81.45          |            |          | 920.42            |                |                                       |
| North Main               | below diversion                    | 94820          | 4959.00            |           | 84.34          |           | B4.67          |            |          |                   |                |                                       |
|                          | 4.75.6 3.36.11                     |                |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 94530          | 896.00             | 68.00     | 76.36          |           | 76.42          | 0.000110   | 1.90     | 480.89            | 73.60          | 0.12                                  |
| North Main               | below diversion                    | 94530          | 1573,00            |           | 78.72          |           | 78.8           |            |          | 667.23            | 87.10          | 0.14                                  |
| North Main               | below diversion                    | 94530          | 2645.00            |           | 81.27          |           | 81.4           | 0.000165   | 3.28     | 918.89            |                |                                       |
| North Main               | below diversion                    | 94530          | 4959.00            |           | 84.33          |           | 84.6           | 0.000258   | 4.75     | 1565.13           | 802.2          | 0.2                                   |
| 1 1 1 1 1 1 1 1 1        | THE LAWREST                        | 3 3 3 3 3 3 3  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                    | 92150          | 896.00             | 68.00     | 76.03          | 70.60     | 76.1           |            |          |                   |                |                                       |
| North Main               | below diversion                    | 92150          | 1573.00            |           | 78.34          | 71.69     | 78.4           | 0.000192   | 2.73     | 587.7             | 85.4           | 0.1                                   |
| North Main               | below diversion                    | 92150          | 2645.00            |           | 80.82          |           |                | 0.00022    | 3.50     | 830.3             | 113.8          |                                       |
| North Main               | below diversion                    | 92150          | 4959.00            | 68.00     | 83.61          | 75.34     | 84.0           | 0.00034    | 5.06     | 1199.9            | 606.4          | 5 0.2                                 |
| Tara Selection           | IN GERTE HONE                      | XXXX           |                    |           |                |           |                |            |          |                   |                |                                       |
|                          | below diversion                    | 92135          | Bridge             |           |                | 1         |                |            |          |                   |                |                                       |

| River                    | Plan P 259<br>Reach  | RiverSta        | Q Total            | Min Ch Ei | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope           | Vel Chni     | Flow Area         | Top Width         | Froude # Chi       |
|--------------------------|--|-----------------|--------------------|-----------|----------------|----------------|----------------|----------------------|--------------|-------------------|-------------------|--------------------|
| - 447V, P                |  |                 | (cfs)              | (ft)      | (ft)           | (ft)           | (n)            | (ft/ft)              | (ft/e)       | (sq ft)           | (ft)              | Proude # Chi       |
|                          |  |                 | <b></b>            |           |                |                |                |                      |              | (44.4             | 179               | S. M. See S. W. S. |
| North Main               | below diversion  | 92120           | 896.00             | 68.00     | 78.02          | 70.60          | 76.10          | 0.000185             | 2.16         | 414.70            | 68.81             | 0.15               |
| North Main<br>North Main | below diversion  | 92120           | 1573.00            | 68.00     | 78.32          | 71.69          | 78.44          | 0.000194             | 2.74         | 586.04            | 85,21             | 0.17               |
| North Main               | below diversion  | 92120           | 2645.00<br>4959.00 | 68.00     | 80.80          | 73.08          | 80.99          | 0.000224             | 3.51         | 827.90            | 113.49            | 0.19               |
| e o Years ha             | e filologica film st.  | 152124          | 4939.00            | 68.00     | 83.52          | 75.34          | 83.90          | 0.000352             | 5.10         | 1186.03           | 543.28            | 0.24               |
| North Main               | below diversion  | 91139           | 898.00             | 68.00     | 75.83          | 70.60          | 75.04          | 0.000000             |              |                   |                   |                    |
| North Make               | below diversion  | 91139           | 1573.00            | 68.00     | 78.12          | 71.69          | 75.91<br>78.24 | 0.000203             | 2.23         | 401.44            | 67,98             | 0.16               |
| North Main               | below diversion  | 91139           | 2645.00            | 68.00     | 80.56          | 73.06          | 80.78          | 0.000210             | 3.59         | 568,95<br>801,34  | 83.27             | 0.17               |
| North Main               | below diversion  | 91139           | 4959.00            | 68.00     | 83.12          | 75.34          | 83.54          | 0.000392             | 5.28         | 1129.08           | 109.86<br>233.19  | 0.19               |
| dellarity and figure     | 6 THE 373 A R.   | e Result to the |                    |           |                |                |                |                      |              | 1120.00           | 200.15            | 0.26               |
| North Main               | below diversion  | 91050           | 896.00             | 68.00     | 75.81          | 70.59          | 75.89          | 0.000205             | 2.24         | 399.87            | 67.70             | 0.16               |
| North Main               | below diversion  | 91050           | 1573.00            | 68.00     | 78.10          | 71.68          | 78.22          | 0.000213             | 2.82         | 568.39            | 62.32             | 0.17               |
| North Main               | below diversion  | 91050           | 2645.00            | 68.00     | 80.53          | 73.07          | 80.73          | 0.000246             | 3.61         | 792.06            | 107.27            | 0.20               |
| A S                      | Louder diversion   | 91000           | 4959.00            | 68.00     | 83.23          | 75.35          | 83.45          | 0.000258             | 4.29         | 3588.64           | 2451.08           | 0.21               |
| North Main               | below diversion  | 88641           | 896.00             | 68.00     | 75.28          | 70.47          | 70.00          |                      |              |                   |                   |                    |
| North Main               | below diversion  | 88841           | 1573.00            | 68.00     | 77.58          | 70.47<br>71.53 | 75.37<br>77.69 | 0.000236             | 2.33         | 384.40            | 68.09             | 0.17               |
| North Main               | below diversion  | 88641           | 2645.00            | 68.00     | 79.91          | 72.86          | 80.12          | 0.000240             | 2.88         | 550.39            | 77.81             | 0.18               |
| North Main               | below diversion  | 88641           | 4959.00            | 58.00     | 82.44          | 75.08          | 82.75          | 0.000276             | 4.79         | 744.85<br>2451.60 | 87.90<br>10196.91 | 0.21               |
| . R. L. (8 %)            | artifikki satu   |                 |                    |           |                |                |                | 0.000044             | 7.70         | 2431.00           | 10(96.91          | 0.24               |
| North Main               | below diversion  | 88488           | 896.00             | 68.00     | 75.24          | 70.49          | 75.33          | 0.000248             | 2.38         | 376.53            | 67.16             | 0.18               |
| North Main               | below diversion  | 88488           | 1573.00            | 68.00     | 77.51          | 71.55          | 77.65          | 0.000252             | 2.94         | 540.35            | 76.83             | 0.19               |
| North Main               | below diversion  | 88488           | 2645.00            | 68.00     | 79.85          | 72.90          | 80.07          | 0.000286             | 3.74         | 758.72            | 108.48            | 0.21               |
| ) Wash corner            | below diversion  | 88488           | 4959.00            | 68.00     | 82.49          | 75.13          | 82.66          | 0.000230             | 3.93         | 4443.65           | 12793.28          | 0.20               |
| North Main               | below diversion  | 88300           | 896.00             | 68.00     | 75 40          | 70.1-          |                |                      |              |                   |                   |                    |
| North Main               | below diversion  | 88300           | 1573.00            | 68.00     | 75.19<br>77.47 | 70.47          | 75.28<br>77.60 | 0.000245             | 2.37         | 377.52            | 67.19             | 0.18               |
| North Main               | below diversion  | 88300           | 2645.00            | 68.00     | 79.80          | 72.85          | 80.01          | 0.000286             | 2.93         | 540.89            | 76.44             | 0.19               |
| North Main               | below diversion  | 88300           | 4959.00            | 68.00     | 82.25          | 75.07          | 82.60          | 0.000288             | 3.74<br>5.01 | 753.31<br>1825.71 | 106.46<br>797.37  | 0.21               |
| 1.44 (2.75)              | THE WINDS  | n wasting to    |                    |           |                |                |                |                      | 9.01         | 1020.71           | 191.37            | 0.25               |
| North Main               | below diversion  | 87300           | 896.00             | 68.00     | 74.92          | 70,46          | 75.02          | 0.000280             | 2.49         | 359.23            | 65.59             | 0.19               |
| North Main               | below diversion  | 87300           | 1573.00            | 68.00     | 77.19          | 71.51          | 77.33          | 0.000283             | 3.05         | 518.01            | 74.43             | 0.20               |
| North Main               | below diversion  | 87300           | 2845.00            | 68.00     | 79.50          | 72.85          | 79.72          | 0.000304             | 3.79         | 851.65            | 192.35            | 0.21               |
| North Main               | below diversion  | 67300           | 4959.00            | 68.00     | 82.02          | 75.06          | 82.23          | 0.000281             | 4.25         | 3034.23           | 1643.79           | 0.21               |
| North Main               | below diversion  | 85942           | 896.00             | 68.00     | 74.40          | - 30.04        |                |                      |              |                   |                   |                    |
| North Main               | below diversion  | 85942           | 1573.00            | 68.00     | 74.40          | 70.64          | 74.54          | 0.000451             | 2.96         | 302.46            | 61.23             | 0.23               |
| North Main               | below diversion  | 85942           | 2645.00            | 68.00     | 78.92          | 71.75<br>73.14 | 76.68<br>79.21 | 0.000423             | 3.49         | 452.17            | 70,80             | 0.24               |
| North Main               | below diversion  | 85942           | 4959.00            | 68.00     | 81.30          | 75.44          | 81.70          | 0.000449             | 4.38<br>5.50 | 634.23            | 98.19             | 0.26               |
| · 海基 本 病病。               |  | 8 (A.1) (2.15)  |                    |           |                | - 15.55        |                | 0.000322             | 3.30         | 2163.91           | 1305.21           | 0.29               |
| North Main               | below diversion  | 85850           | 896.00             | 68.00     | 74.37          | 70.87          | 74.51          | 0.000465             | 2,99         | 300.05            | 61.46             | 0.24               |
| North Main               | below diversion  | 65850           | 1573.00            | 68.00     | 78.64          | 71.80          | 76.83          | 0.000432             | 3.49         | 451.53            | 71.70             | 0.24               |
| North Main               | below diversion  | 85850           | 2645.00            | 68.00     | 78.88          | 73.18          | 79.17          | 0.000454             | 4.35         | 636.32            | 105.84            | 0.26               |
| North Main               | below diversion  | 85850           | 4959.00            | 68.00     | 61.17          | 75.48          | 81.65          | 0.000598             | 5.83         | 1705.98           | 1305.60           | 0.31               |
| North Main               | below diversion  | 85836           | 044                |           |                |                |                |                      |              |                   |                   |                    |
| THOUGH MANUEL            | Washington and the second seco | 03030           | Bridge             |           |                |                |                |                      |              |                   |                   |                    |
| North Main               | below diversion  | 85620           | 896.00             | 68.00     | 74.31          | 70.67          | 74.48          | 0.000480             |              |                   |                   |                    |
| North Main               | below diversion  | 85820           | 1573.00            | 68.00     | 78.58          | 71.80          | 76.78          | 0.000480             | 3.02         | 296.66<br>447.10  | 61.21             | 0.24               |
| North Main               | below diversion  | 85820           | 2645.00            | 68.00     | 78.81          | 73.19          | 79.11          | 0.000487             | 4.39         | 638.92            | 71.42<br>129.11   | 0.24               |
| North Main               | below diversion  | 85820           | 4959.00            | 68.00     | 81.02          | 75.46          | 81.51          | 0.000633             | 5.94         | 1684.34           | 1374.15           | 0.26               |
| <u> </u>                 | 1997 Jacob 1803  | Barr inc.       |                    |           |                |                |                |                      |              |                   | 70.4.0            | 0.02               |
| North Main               | below diversion ::   | 85763           | 896.00             | 68.00     | 74.29          | 70.67          | 74.43          | 0.000487             | 3.04         | 295,07            | 61.10             | 0.24               |
| North Main               | below diversion  | 85763           | 1573.00            | 68.00     | 76.56          | 71.80          | 76.75          | 0.000452             | 3.54         | 445.40            | 71,31             | 0.25               |
| North Main               | below diversion  | 85783           | 2645,00            | 68.00     | 78.78          | 73.19          | 79.08          | 0.000472             | 4.40         | 628.09            | 103.38            | 0.26               |
| . TOT IN CALL            | below diversion  | 85763           | 4959.00            | 68.00     | 80.92          | 75,48          | 81.47          | 0.000694             | 6.18         | 1447.79           | 1299,44           | 0.33               |
| North Main               | below diversion  | 83100           | 896.00             | 66.00     | 73.42          | 68.67          | 73.51          | 0 00000              |              |                   |                   |                    |
| North Main               | below diversion  | 83100           | 1573.00            | 66.00     | 75.72          | 69.80          | 75.87          | 0.000267             | 2.48<br>3.02 | 383.94            | 65.33             | 0.18               |
| North Main               | below diversion  | B3100           | 2645.00            | 66.00     | 77.82          | 71.19          | 78.06          | 0.000264             | 3.02         | 526.48<br>694.03  | 75.49<br>84.81    | 0.19               |
| North Main               | below diversion  | 83100           | 4959.00            | 66.00     | 80.71          | 73.49          | 80.76          | 0.000104             | 2.65         | 9702.98           | 16520.38          | 0.22               |
| Alex 18 No.              | derita in the No   |                 |                    |           |                |                |                |                      |              | J. JE. 60         | .0020.00          | 0.73               |
| North Main               | below diversion  | 82100           | 896.00             | 66.00     | 73.04          | 68.97          | 73.19          | 0.000369             | 3.15         | 302.52            | 59.04             | 0.22               |
| North Main               | below diversion  | 82100           | 1573.00            | 66,00     | 75.30          | 70.15          | 75.54          | 0.000390             | 3.97         | 447.64            | 69.45             | 0.24               |
| North Main               | below diversion  | 82100<br>82100  | 2645.00            | 66.00     | 77.20          | 71.58          | 77.83          | 0.000542             | 5.36         | 587.97            | 455.62            | 0,29               |
| TOTAL CHARLE             | JONE UND SIGN  | DE IVU          | 4959.00            | 66.00     | 80.61          | 74.08          | 80.65          | 0.000098             | 2.76         | 9138.47           | 16662.51          | 0.13               |
| North Main               | below diversion  | 82000           | 896.00             | 66.00     | 73.00          | 68.97          | 70.10          | 0.000075             |              |                   |                   |                    |
| North Main               | below diversion  | 82000           | 1573.00            | 66.00     | 75.28          | 70.15          | 73.16<br>75.50 | 0.00037B<br>0.000397 | 3.17         | 300.15            | 58.86             | 0.22               |
| North Main               | below diversion  | 82000           | 2845.00            | 66.00     | 77.14          | 71.58          | 77.57          | 0.000397             | 4.00<br>5.39 | 444.66<br>583.05  | 69,25<br>440,54   | 0.24               |
| North Main               | below diversion  | 82000           | 4959.00            | 66.00     | 79.64          | 74.08          | 80.54          | 0.000896             | 7.93         | 791.72            | 2432.57           | 0.30               |
|                          |  |                 |                    |           |                |                |                |                      |              | 751.72            |                   | 0.39               |
| North Main               | below diversion  | 81100           | 898.00             | 68.00     | 72.61          | 68.75          | 72.79          | 0.000420             | 3.44         | 298.59            | 69.92             | 0.24               |
| North Main               | below diversion  | 81100           | 1573.00            | 66.00     | 74.84          | 69.91          | 75.11          | 0.000453             | 4.37         | 439.09            | 410.85            | 0.26               |
| North Main               | below diversion  | 81100           | 2645.00            | 66.00     | 76.50          | 71.43          | 77.01          | 0.000673             | 5,99         | 602.59            | 749.77            | 0.33               |
| Vorth Main               | below diversion  | 81100           | 4959.00            | 56.00     | 78.73          | 74.03          | 79.67          | 0.001038             | 8.48         | 1108.01           | 1815.63           | 0.42               |
| North Main               | below diversion  | 80100           | 896.00             | 66.00     | 70.00          | 25.00          |                | 0.555.55             |              |                   |                   |                    |
|                          |  | 80100           | 1573.00            | 66.00     | 72.23          | 69.69          | 72.37<br>74.68 | 0.000405             | 3.06         | 325.91            | 79.48             | 0.23               |
|                          | pelow diversion  |                 |                    |           |                |                |                |                      |              |                   |                   |                    |
| North Main               | below diversion  | 80100           |                    |           |                |                |                |                      |              | 529.14            | 104.58            | 0.23               |
| North Main               |  |                 | 2645.00<br>4959.00 | 66.00     | 76.00<br>78.37 | 71.06<br>73.33 | 76,36<br>78.76 | 0.000555             | 5.06<br>5.90 | 708.95<br>2385.94 | 132.61<br>960.98  | 0.29               |

HEC\_DAS\_Plan: P\_25% 3 (Continued)
River Reach River Sta Q Total Flow Area Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Froude # Chil (cfa) (ft) (IVII) (ft/s) (8g ft) (ft) North Main below diversion 79100 896.00 66,00 71.62 68.76 71.83 0.000722 3.74 245.18 58.72 0.30 North Main below diversion 79100 1573.00 66.00 73.91 69.91 74.20 0.000597 4.39 387.27 274.11 0.29 462.11 74.98 0.001041 6.37 353.20 0.39 North Main noistevib wole 2645.00 66.00 71.24 75.59 79100 elow diversion 2141.06 North Main 4959.00 66.00 77.43 73.63 7B.D4 0.000929 7.16 3496.10 0.39 79100 North Main elow diversion 77548 896.00 66.00 70.31 68.19 70.52 0.001009 3.70 242 64 87.38 N 34 lorth Main below diversion 77548 1573.00 66.00 73.18 69.13 73.38 0.000447 3.61 457.04 81.94 0.25 North Main below diversion 7754R 2645 00 88 00 73.32 70.30 73.86 0.001174 5.94 468.87 82.67 0.40 below diversion North Main 77548 4959.00 66.00 74.12 72.25 75.62 0.002805 9.90 537.04 2212.48 0.64 North Main below diversion 896.00 62.00 70.36 64.76 70.44 0.000160 2.22 414.97 68.44 0.15 77538 North Main below diversion 77538 1573.00 62.00 73.21 65.91 73.33 0.000152 2.72 628.29 81.20 0.15 below diversion 2645.00 62.00 73.42 67.34 73.73 0.000401 4.48 645.17 82.12 0.25 4959.00 62.00 74.39 75.26 0.001023 7.60 726.65 2667.22 0.40 North Main below diversion 77538 69.52 0.000161 2.22 414.07 68.38 0.15 North Main below diversion 77419 896.00 62.00 70.35 64.76 70.43 81.15 0.15 0.000153 627.40 North Main below diversion 77419 1573.00 62.00 73.20 65.91 73.32 2.73 640.94 0.25 North Main 77419 2645.00 62.00 73.37 67.33 73.68 0.000408 4.50 81.89 below diversion 4959.00 62.00 74.21 75.13 0.001093 7.78 756.72 2666.80 0.42 North Main 77419 69.52 below diversion North Main below diversion 77357 896.00 62.00 70.35 64 50 70.41 0.000140 1.96 457.49 72.53 0.14 North Main pelow diversion 77357 1573 00 62 00 73 21 65.55 73 30 0.000125 2.37 682.50 921.49 0.14 North Main below diversion 77357 2645.00 62.00 73.40 66.91 73.64 0.000330 3.91 699.21 1707.07 0.22 0.000332 4241.96 5206.14 74.72 74.91 4.27 0.23 North Main below diversion 77357 4959.00 62.00 69,13 below diversion 77343 Bridge North Main North Main below diversio 896 00 62.00 70.33 84.50 70.39 0.000141 1.96 456.29 72.45 0.14 77829 North Main elow diversion 77329 1573.00 62.00 73.19 65.55 73.28 0.000126 2.38 681.16 685.52 0.14 1258.24 0.000334 North Main below diversion 77329 2645.00 82.00 73.38 66.91 73.61 3.92 696.82 0.22 0.000432 74.51 4.81 3637.08 4393.0 0.26 4959.00 69.12 74.77 North Main below diversion 77329 62.00 62.68 70.37 0.000086 1,68 534.17 72.44 0.11 North Main elow diversion 77179 896.00 60.10 70.33 North Main 1573.00 60.10 73.19 63.79 73.26 0.000090 2.13 759.07 2320.94 0.12 elow diversion 77179 North Main elow diversion 77179 2645.00 60.10 73.38 65.28 73,55 0.000213 3.32 1634.95 2322.47 0.18 below diversion 4715.04 North Main 77179 4959.00 60.10 74.52 67.74 74,68 0.000260 3.91 4701.50 0.20 Culvert North Main below diversion 77143 68.76 0.13 60.10 69.46 62.67 69.52 0.000124 1.90 472.75 North Main below diversion 77107 896.00 63.79 71.61 0.000164 2.55 622.51 77.56 0.15 North Main 77107 1573.00 60.10 71.51 noisravib woled 77107 2645.00 60.10 72.7B 65.28 73.00 0.000292 3.72 725.09 B3.11 0.21 North Main noisrevib wole alow diversion 4959.00 60.10 74.48 67.74 74.64 0.000270 3.98 4605.91 4660.06 0.21 North Main 77107 74.85 0.11 514.74 62.59 69.46 0.000093 1.75 North Main below diversion 76585 896.00 60.00 69.41 1573.00 71.44 63.68 71.53 0.000126 2.41 675.51 83.58 0.14 76585 60.00 North Main below diversion 0.000236 3.57 88.84 0.19 2645.00 72.67 65.0 72.86 781,53 North Main low diversion 60.00 74.47 below diversion 0.000318 4.54 3726.81 7143.44 0.23 76585 60,00 74.22 67.33 North Main 1.81 497.67 71.48 0.12 North Main below diversion 78000 898 00 60.00 69.35 62.59 69.40 0.000099 106,69 675.46 0.14 North Main below diversion 76000 1573.00 60,00 71.35 63.68 71.45 0.000136 2.49 0.000257 3.69 816.88 1587.66 0.20 65.07 72.71 60,00 72.51 North Main below diversion 76000 2645.00 74.19 0.000600 6.04 1240.89 4028.96 0.31 73.65 67.39 North Main elow diversion 76000 4959.00 60.00 896.00 60.00 89 34 62.70 69.40 0.000099 1 92 488 80 72 69 0.12 North Main below diversion 6929 North Main 75929 1573 00 60.00 71.34 63 82 71.45 0.000141 2.65 676.15 115.50 0.15 below diversion North Main 75929 2645.00 60.00 72.46 65.23 72.69 0.000273 3.96 901.39 2248.15 0.21 below diversion 4.11 5210.74 4566.41 0.000251 0.20 North Main below diversion 75929 4959.00 60,00 73.89 67.44 74.05 1.91 60.00 69.33 62.64 69.39 0.000098 488.16 70 BB 0.12 75866 896.00 North Main below diversion 71.43 2.66 71.33 63.76 0.000141 655 51 99.89 0.15 below diversion 1573.00 60.00 North Main 75866 2645.00 60.00 72,45 65.16 72 68 0.000264 3.91 1168.74 2819.02 0.21 North Main below diversion 4959.00 60.00 73.90 67.40 74.02 0.000208 3.75 5887.18 4593.12 0.19 North Main noieravib woler North Main below diversion 75852 Bridge 69.31 62.64 69.37 0.000099 1.92 486 58 70.77 0.12 896.00 60.00 North Main 75838 below diversion North Main below diversion 71.29 63.76 71.39 0,000143 2.67 651.69 100.33 0.15 75838 1573.0 60.00 2645.00 60.00 72.34 65 16 72 58 0.000281 4 00 1063.01 2572.01 0.21 North Main North Main below diversion 75838 4959.00 60.00 73.77 67.37 73.92 0.000236 3.97 5507.22 4529.66 0.20 0.12 62.64 69.36 0.000099 486.05 70.74 69.30 North Main below diversion 75752 896.00 60.00 0.15 63.76 71.38 0.000144 2.67 650.59 100.15 North Main below diversion 75752 1573.00 60.00 71.27 2645.00 72.32 65,15 72.56 0.000284 4.02 1038.28 2472.96 0.21 North Main 75752 60.00 below diversion 67.37 73.89 0.000245 4.04 5392.87 4276 89 0.20 elow diversion 75752 4959.00 60.00 73.74 North Main 69.32 69.28 1.91 485,42 0.12 North Main below diversion 75000 896 00 60.00 69 23 62.56 0.000098 1162.16 771.22 0.14 North Main below diversion 1573.00 60.00 71.19 63,65 71.28 0.000125 2.50 75000 2428.96 4016.37 North Mair below diversion 75000 2645.00 60.00 72.20 65.05 72.34 0.000198 3.34 0.14 73.69 0.000114 2.75 10034.06 8844.27 67.25 73.74 North Main below diversion 75000 4959.00 60,00 North Main oelow diversion 896,00 60.00 69.11 62.97 69 17 0.000138 2 03 442.90 68.87 0.14 1714.09 0.15 North Main 1573.00 60.00 71.06 64.14 71 14 0.000151 2.51 1414.95 below diversion

|   | Plan: P 25%  |                 |                   | M-0-0       | WO 55                                 | Online I   | 55.5              | - FO 00 1           | V. O. T         | -  |                 |   |
|---|--|-----------------|-------------------|-------------|---------------------------------------|--|-------------------|---------------------|-----------------|--|-----------------|---|
| River                                   | Reach  | River Sta       | Ci Total<br>(cfs) | Min Ch E)   | W.S. Elev<br>(ft)                     | Crit W.S.  | E.G. Elev<br>(ft) | E.G. Slope<br>(Nft) | Vel Chnl (ft/s) | Flow Area  | Top Width       | Froude # Chl                            |
| North Main                              | below diversion  | 74000           | 2845.00           | 60.00       | 72.08                                 | 65.57  | 72.16             | 0.000154            | 2.73            | (aq ft)<br>3972.04                               | (ft)<br>3190,21 | 0.15                                    |
| North Main                              | below diversion  | 74000           | 4959.00           | 60.00       | 73.80                                 | 67.92  | 73.63             | 0.000194            | 2.73            | 9143.80  | 12420.30        | 0.12                                    |
| , to turn man.                          | COLOR MICCOLON   | 14000           | 4000.00           |             | 70.00                                 | 07.32  | ,3.00             | 0.000030            | 2.37            | 9143.60  | 12420.30        |   |
| North Main                              | below diversion  | 73000           | 1085.00           | 60.00       | 68.94                                 | 62,88  | 69.03             | 0.000159            | 2.37            | 470.46   | 68.83           | 0.15                                    |
| North Main                              | below diversion  | 73000           | 1812.00           | 60.00       | 70.81                                 | 63.95  | 70.96             | 0.000133            | 3.18            | 605.48   | 75.61           | 0.18                                    |
| North Main                              | below diversion  | 73000           | 2685.00           | 60.00       | 71.63                                 | 65.04  | 71.92             | 0.000355            | 4.32            | 668.77   | 78.57           | 0.24                                    |
| North Main                              | below diversion  | 73000           | 4893.00           | 60.00       | 73.20                                 | 67.17  | 73.45             | 0.000383            | 4.80            | 4290.99  | 8886.73         | 0.24                                    |
| 1                                       |  |                 |                   |             |                                       |  |                   | 0.00000             |                 |  | 0000.70         |   |
| North Main                              | below diversion  | 72857           | 1085.00           | 60.00       | 68.92                                 | 62. <b>82</b>                                    | 69.00             | 0.000152            | 2.32            | 481.66   | 70.89           | 0.15                                    |
| North Main                              | below diversion  | 72857           | 1812.00           | 60.00       | 70.78                                 | 63.89  | 70.93             | 0.000204            | 3.11            | 620.18   | 77.93           | 0.18                                    |
| North Main                              | below diversion  | 72857           | 2685.00           | 60.00       | 71.60                                 | 64.98  | 71.87             | 0.000339            | 4.23            | 685.09   | 80.99           | 0.23                                    |
| North Main                              | below diversion  | 72857           | 4893.00           | 60.00       | 73.11                                 | 67.07  | 73.40             | 0.000399            | 5.01            | 3791.65  | 8374.24         | 0.26                                    |
| Tritigens, specificati                  | 5  |                 |                   |             |                                       | 0  |                   | 0.00000             | 5.51            | 5101.00  | 0074.24         |   |
| North Main                              | below diversion  | 72794           | 1085.00           | 60.00       | 68.90                                 | 62.97  | 68.99             | 0.000177            | 2.49            | 449.48   | 66.78           | 0.18                                    |
| North Main                              | below diversion  | 72794           | 1812.00           | 60.00       | 70.74                                 | 64.09  | 70.91             | 0.000233            | 3.29            | 686.50   | 244.75          | 0.19                                    |
| North Main                              | below diversion.   | 72794           | 2685.00           | 60.00       | 71.58                                 | 65.21  | 71.88             | 0.000357            | 4.31            | 918.11   | 308.08          | 0.24                                    |
| North Main                              | below diversion  | 72794           | 4893.00           | 60.00       | 73.18                                 | 67.35  | 73.35             | 0.000294            | 4.30            | 5579.81  | 11654.05        | 0.22                                    |
| 10 6 M O NO 2 NA .                      | 31 2 0 0 0 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1   | v 20            |                   |             |                                       |  |                   |                     |                 |  |                 |   |
| North Main                              | below diversion  | 72780           | Bridge            |             |                                       |  |                   |                     |                 |  |                 |   |
|   | Other than control at  | Charles Sala    |                   |             |                                       |  |                   |                     |                 |  |                 |   |
| North Main                              | below diversion  | 72768           | 1085.00           | 60.00       | 68.88                                 | 62.97  | 68.98             | 0.000179            | 2.49            | 448.24   | 66.71           | 0.16                                    |
| North Main                              | below diversion  | 72766           | 1812.00           | 60.00       | 70.71                                 | 64.09  | 70.68             | 0.000236            | 3.30            | 678.11   | 242,15          | 0.19                                    |
| North Main                              | below diversion  | 72768           | 2685.00           | 60.00       | 71.56                                 | 65.21  | 71.83             | 0.000361            | 4.32            | 911.57   | 308.45          | 0.24                                    |
| North Main                              | below diversion  | 72768           | 4893.00           | 60.00       | 72.92                                 | 67.35  | 73.18             | 0.000407            | 4.98            | 4493.67  | 4106,55         | 0.26                                    |
| eri a juliyadi                          | Maria Hillian  | 7 7 7 F         |                   |             |                                       |  |                   |                     | -               |  |                 |   |
| North Main                              | below diversion  | 72680           | 1085.00           | 60.00       | 68.87                                 | 62.97  | 68.98             | 0.000180            | 2.50            | 447.32   | 66.66           | 0.18                                    |
| North Main                              | below diversion  | 72680           | 1812.00           | 60.00       | 70.69                                 | 64.10  | 70.88             | 0.000238            | 3.31            | 673.54   | 240.72          | 0.19                                    |
| North Main                              | below diversion  | 72680           | 2685.00           | 60.00       | 71.53                                 | 65.20  | 71,81             | 0.000365            | 4.34            | 902.65   | 304.24          | 0.24                                    |
| North Main                              | below diversion  | 72680           | 4893.00           | 60.00       | 72.84                                 | 67.35  | 73.13             | 0.000448            | 5,19            | 4188.85  |                 | 0.27                                    |
| etingegalanete                          |  | 1               |                   |             |                                       |  |                   |                     |                 | 1  |                 |   |
| North Main                              | below diversion  | 71500           | 1085.00           | 60.00       | 68.64                                 | 62.97  | 68.75             | 0.000189            | 2.68            | 444.08   | 68.90           | 0.17                                    |
| North Main                              | below diversion  | 71500           | 1812.00           | 60.00       | 70.47                                 | 64.07  | 70.59             | 0.000189            | 3.05            | 2131.91  | 3650.99         | 0.17                                    |
| North Main                              | below diversion  | 71500           | 2685.00           | 60.00       | 71.50                                 | 65.12  | 71.54             | 0.000094            | 2.30            | 6018.85  | 3881.82         | 0.12                                    |
| North Main                              | below diversion  | 71500           | 4893.00           | 60.00       | 72.87                                 | 67.37  | 72.89             | 0.000068            | 2.08            | 11478.22   | 10631.39        | 0.10                                    |
| e Minar ye eskir                        |  |                 |                   |             |                                       |  |                   |                     |                 |  |                 |   |
| North Main                              | below diversion  | 70221           | 1085.00           | 60.00       | 68.43                                 | 62.83  | 68.52             | 0.000168            | 2.47            | 785.36   | 891.01          | 0.16                                    |
| North Main                              | below diversion  | 70221           | 1812.00           | 60.00       | 70.40                                 | 63.91  | 70.43             | 0.000078            | 1.93            | 3694.17  | 3587.69         | 0.11                                    |
| North Main                              | below diversion  | 70221           | 2685.00           | 60.00       | 71.42                                 | 64.92  | 71,44             | 0.000058            | 1.60            | 6052.82  | 3633.01         | 0.10                                    |
| North Main                              | below diversion  | 70221           | 4893.00           | 60.00       | 72.78                                 | 67.10  | 72.80             | 0.000085            | 2.07            | 9258.81  | 10664.79        | 0.10                                    |
| elegialence o                           |  |                 |                   |             |                                       |  |                   |                     |                 |  |                 | }                                       |
| North Main                              | below diversion  | 70158           | 1085.00           | 60.00       | 68.42                                 | 62.61  | 68.49             | 0.000148            | 2.20            | 537.01   | 230.04          | 0.14                                    |
| North Main                              | below diversion  | 70158           | 1812.00           | 60.00       | 70.33                                 | 63.62  | 70.41             | 0.000136            | 2.47            | 2096.36  | 3739.55         | 0.14                                    |
| North Main                              | below diversion  | 70158           | 2685.00           | 60.00       | 71.39                                 | 64,64  | 71.43             | 0.000095            | 2.21            | 4665.82  | 3853.61         | 0.12                                    |
| North Main                              | below diversion  | 70158           | 4893.00           | 60.00       | 72.76                                 | 68.61  | 72.80             | 0.000092            | 2.37            | 8193.05  | 10710.73        | 0.12                                    |
|   |  |                 |                   |             |                                       |  |                   |                     |                 |  |                 |   |
| North Main                              | below diversion  | 70144           | Bridge            |             |                                       |  |                   |                     |                 |  |                 |   |
| 2000A Ouksa                             |  | <u> </u>        |                   |             |                                       |  |                   |                     |                 |  |                 |   |
| North Main                              | below diversion  | 70130           | 1085.00           | 60.00       |                                       | 62.61  | 68.48             |                     | 2.21            | 534.38   |                 |   |
| North Main                              | below diversion  | 70130           | 1812.00           | 60.00       | 70.30                                 | 63.82  | 70.38             | -                   | 2,50            | 2029.48  | <del>†</del>    | 0.15                                    |
| North Main                              | below diversion  | 70130           | 2685.00           | 60.00       |                                       | 64.84  | 71.39             | +                   |                 | 4565.11  | <del></del>     | 0.12                                    |
| North Main                              | below diversion  | 70130           | 4893.00           | 60.00       | 72.72                                 | 66.62  | 72.76             | 0.000095            | 2.40            | 8087.06  | 10649.89        | 0.12                                    |
| 1 |  | <u> </u>        |                   |             |                                       |  |                   |                     | ļ <u></u>       |  | ļ               |   |
| North Main                              | below diversion  | 70044           | 1085.00           | 60.00       | 68.41                                 | 62.61  | 68,48             | +                   | 2.21            | 533.93   | <del></del>     | 0.14                                    |
| North Main                              | below diversion  | 70044           | 1812.00           | 60.00       | <del></del>                           | 63.62  | 70.37             | +                   | 2.52            | 1998.77  | 3735.14         |   |
| North Main                              | below diversion  | 70044           | 2685.00           | 60.00       | <del></del>                           | 64.63  | 71.38             |                     | 2.28            | 4519.42  | +               | 0.13                                    |
| North Main                              | below diversion  | 70044           | 4893.00           | 60.00       | 72.71                                 | 66.52  | 72.74             | 0.000096            | 2.41            | 8046.23  | 10626.13        | 0.13                                    |
| 70 02 02 0 4 1 4 1 4<br>20 1 2 0 2 1    | ALEX V. Er   | No destruccións |                   |             | <u> </u>                              |  |                   | <del> </del>        |                 |  | ļ               | <del> </del>                            |
| North Main                              | below diversion  | 70000           | 1085.00           | 60.00       |                                       | <del></del>                                      | 68.47             | <del></del>         | 2.11            | 540.98   | t -             | * ************************************* |
| North Main                              | below diversion  | 70000           | 1812.00           | 60.00       |                                       | 63.50  | 70.36             | <del>}</del>        | 2.54            | 1686,21  |                 |   |
| North Main                              | below diversion  | 70000           | 2685.00           | 60.00       | <del></del>                           | 64.48  | 71.37             | +                   | <del></del>     |  | <del> </del>    |   |
| North Main                              | below diversion  | 70000           | 4893.00           | 60.00       | 72.69                                 | 66.42  | 72.74             | 0.000109            | 2.58            | 7392.73  | 10499.43        | 0.13                                    |
| Namb 15                                 | halam dharadan   | 80000           | 1005.00           |             | 20.00                                 | 60.07  |                   | 0.00000             | 2.00            | E 20 00  | 94.60           | t                                       |
| North Main                              | below diversion  | 69000           | 1085.00           | 60.00       | <del></del>                           | <del></del>                                      | 68.34             |                     | 2.03            |  | +               |   |
| North Main                              | below diversion  | 69000           | 1812.00           | 60.00       |                                       |  | <del></del>       |                     | +               | <u> </u>   | +               |   |
| North Main                              | below diversion  | 89000           | 4893.00           | 60.00       | <del></del>                           | 1  |                   | <del> </del>        | +               | <del></del>                                      |                 | +                                       |
| North Main                              | below diversion  | 69000           | 4683.00           | 60.00       | 12.50                                 | 00.13  | 12.02             | 0.000125            | 2.76            | 0/0/.80  | 10041.58        | 0.14                                    |
| Martin Maria                            | halou diser-i  | 68000           | 1085.00           | 60.00       | 68.06                                 |  | 68.17             | 0.000240            | 2.67            | 413.80   | 68.25           | 0.18                                    |
| North Main                              | below diversion  | 68000           | 1812.00           | 60.00       |                                       |  | 70.02             |                     |                 |  |                 |   |
| North Main<br>North Main                |  | 68000           | 2685.00           | 60.00       | <del></del>                           | +  | 71.05             | <del></del>         | 4.00            | <del></del> -                                    |                 |   |
|   | below diversion  | 68000           | 4893.00           | 60.00       | +                                     |  | 71.05             | <del></del>         | <del></del>     | +  |                 | +                                       |
| North Main                              | DEION GIVERSION  | 100000          | 4093.00           | 00,00       | /2.28                                 | <del> </del>                                     | 16.4              | 3.000302            | 4.14            | 4020.23  | 2040.50         | 0.22                                    |
| Morth Made                              | below diversion  | 68518           | 1085.00           | 60.00       | 67.71                                 | <del>                                     </del> | 67.82             | 0.000250            | 2.65            | 414.60   | 70.07           | 0.18                                    |
| North Main                              |  | 66516           | 1812.00           | 60.00       | ·                                     | <del>-</del>                                     | 69.60             | <del></del>         | +               | <del>)</del>                                     | <del>•</del>    | <del></del>                             |
| North Main                              | below diversion  | <del></del>     | 2685.00           | 60.00       | +                                     | <del>+</del>                                     | 70.69             | +                   | ·               | <del></del>                                      | <del></del>     | •                                       |
| North Main                              | below diversion  | 66518<br>66518  | 4893.00           |             |                                       | +  | 70.68             |                     | +               | •  | +               | <del></del>                             |
| North Main                              | POWER OWNERS.  | UW-10           | 4693.00           | 00.00       | / /4.11                               | <del> </del>                                     | 74.15             | 0.000118            | 1               | 5572.5   |                 | 0.13                                    |
| North Main                              | below diversion  | 86456           | 1085.00           | 60.00       | 67.70                                 | 62.80  | 67.81             | 0.000252            | 2.66            | 413.60   | 70.0            | 0.18                                    |
| North Main                              | below diversion  | 68458           | 1812.00           | 60.00       |                                       | +  | <del></del>       |                     | +               | †  | +               |   |
| North Main                              | below diversion  | 66456           | 2685.00           | 60.00       | · · · · · · · · · · · · · · · · · · · | +  | +                 |                     | +               | <del>                                     </del> |                 |   |
| North Main                              | below diversion  | 66456           | 4893.00           | 60.00       | <del></del>                           | <del>-</del>                                     | +                 |                     | +               | <del>1</del> — —                                 | <del></del>     | •                                       |
| - mer mi Terrest                        | A ALTO ALL MANAGEMENT AND A STREET AND A STR | 1               | +030.00           |             | 1                                     |  | 7                 | 1                   |                 | 1  | 1               | 1                                       |
| North Main                              | below diversion  | 66442           | Bridge            | <del></del> | 1                                     | +  | <del> </del>      | <del> </del>        | 1               | † <del></del>                                    | 1               | 1                                       |
|   | - class out distant  | ,               |                   | ,           | 1                                     |  | 1                 |                     |                 |  |                 |   |

| River                      | Plan P 25%<br>Reach                | River Sta            | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev          | E.G. Slope           | Vel Chal     | Flow Area                             | Top Width          | Froude # Chi |
|----------------------------|------------------------------------|----------------------|--------------------|----------------|----------------|--|--------------------|----------------------|--------------|---------------------------------------|--------------------|--------------|
| ruver                      | rientri                            | Fuver Sta            | (cfs)              | (ft)           | (ft)           | (ft)   | (ft)               | (ft/ft)              | (fl/s)       | (eq ft)                               | (ft)               | Flords # Oil |
|                            | 100 mm and a                       |                      | \—,-,              | 30 OVA 2000    |                |  | 10 - 10 WY IN 10 N |                      | 1.27         | 43.4                                  |                    |              |
| iorth Main                 | below diversion                    | 66428                | 1085.00            | 60.00          | 67.68          |  | 67.79              | 0.000255             | 2.67         | 411.86                                | 69.90              | 0.18         |
| iorth Main                 | balaw diversion                    | 66428                | 1812.00            | 60.00          | 69.32          |  | 69.48              | 0.000297             | 3.35         | 1108.35                               | 1932.80            | 0.21         |
| North Main                 | below diversion                    | 66428                | 2685.00            | 60,00          | 70.53          |  | 70,61              | 0.000175             | 2.82         | 3788.74                               | 2678.37            | D.16         |
| orth Main                  | below diversion                    | 66426                | 4893.00            | 60.00          | 72.06          |  | 72.10              | 0.000118             | 2.57         | 8882.38                               | 3890.84            | 0.14         |
|                            |                                    |                      |                    |                |                |  |                    |                      |              |                                       |                    |              |
| Yorth Main                 | below diversion                    | 66342                | 1085.00            | 60.00<br>60.00 | 67.65<br>69.27 |  | 67.77              | 0.000258             | 2.68         | 410.43                                | 69.61              | 0.19         |
| North Main<br>North Main   | below diversion<br>below diversion | 66942<br>66942       | 1812.00<br>2685.00 | 60.00          | 70.44          |  | 69.45<br>70.57     | 0.000321             | 3.47<br>3.44 | 820.85<br>2515.26                     | 1193.55<br>1898.98 | 0.22         |
| Vorth Mein                 | below diversion                    | 66342                | 4893.00            | 60.00          | 72.00          |  | 72.08              | 0.000208             | 3.29         | 6558,56                               | 3187.19            | 0.18         |
|                            |                                    |                      |                    |                |                |  |                    | 0,400,150            |              |                                       |                    |              |
| North Mair:                | below diversion                    | 65921.*              | 1085.00            | 60.00          | 67.53          |  | 67.65              | 0.000275             | 2.73         | 401.95                                | 69.30              | 0.19         |
| North Mei:                 | below diversion                    | 65921.*              | 1812.00            | 60.00          | 69.12          |  | 69.31              | 0.000348             | 3.57         | 708.13                                | 978.15             | 0.22         |
| Vorth Me'n                 | below diversion                    | 85921.7              | 2685.00            | 60.00          | 70.31          |  | 70.46              | 0.000288             | 3.56         | 2332.45                               | 1764.04            | 0.21         |
| North Mein                 | below diversion                    | 85921.*              | 4893.00            | 60.00          | 71.90          |  | 71.99              | 0.000219             | 3.46         | 6112.67                               | 3160.93            | 0.19         |
|                            |                                    |                      | 4005.00            | 20.00          | 27.40          |  | 07.50              | 0.000007             | 0.70         | 200.70                                | 00.74              | 200          |
| Vorth Main                 | below diversion                    | 65500<br>65500       | 1085.00<br>1812.00 | 60.00<br>60.00 | 67.40<br>68.97 | 1  | 67.52<br>69.16     | 0.000295<br>0.000364 | 2.79<br>3.60 | 392.70<br>702.64                      | 68,71<br>481,69    | 0.20<br>0.23 |
| Vorth M: In<br>Vorth M: In | below diversion                    | 65500                | 2685.00            | 60.00          | 70.22          |  | 70.33              | 0.000364             | 3.29         | 2845.21                               | 2084.76            | 0.23         |
| Vorth Muin                 | below diversion                    | 65500                | 4893.00            | 60.00          | 71.84          |  | 71.90              | 0.000166             | 3.00         | 6841.34                               | 2832.08            | 0.16         |
|                            |                                    |                      |                    |                |                | 1  | ,                  |                      |              |                                       |                    |              |
| Vorth Main                 | below diversion                    | 65133.3*             | 1085,00            | 60.00          | 67.24          |  | 67.39              | 0.000385             | 3.04         | 359.14                                | 66.83              | 0.22         |
| North Main                 | below diversion                    | 65133.3*             | 1812.00            | 60.00          | 68.76          |  | 69.01              | 0.000488             | 4.01         | 467.13                                | 76.86              | 0.26         |
| Vorth Main                 | below diversion                    | 86133.3*             | 2685.00            | 60.00          | 69,89          |  | 70.19              | 0.000545             | 4.66         | 1224.36                               | 1185.70            | 0.28         |
| North Main                 | below diversion                    | 65133.3*             | 4893.00            | 60.00          | 71.65          | ļ  | 71.81              | 0.000351             | 4.25         | 4472.79                               | 2342.75            | 0.23         |
|                            | 1                                  | A1760                | 1005               |                | 84             | <del> </del>                                     | 04 cu              | 0.0004==             | 2.47         | 244.00                                | 04.00              |              |
| North Main<br>North Main   | below diversion                    | 64766.6*<br>64766.6* | 1085.00<br>1812.00 | 80.00<br>80.00 | 67.09<br>68.56 |  | 67.25<br>68.83     | 0.000435             | 3.17<br>4.18 | 344.28<br>444.41                      | 64.99<br>71.67     | 0.24<br>0.28 |
| North Main                 | below diversion                    | 64766.6*             | 2685.00            | 60.00          | 69.49          | , -  | 69.94              | 0.000393             | 5.42         | 606.25                                | 735.02             | 0.34         |
| North Main                 | below diversion                    | 64786.6*             | 4893.00            | 60.00          | 71.38          | <u> </u>   | 71.65              | 0.000543             | 5.17         | 3169,39                               | 1695.08            | 0.29         |
|                            |                                    | F 8                  |                    |                |                |  |                    |                      |              |                                       |                    |              |
| North Main                 | below diversion                    | 84400                | 1085.00            | 60.00          | 66.95          | 62.85  | 67.10              | 0.000411             | 3.12         | 348.49                                | 63.29              | 0.23         |
| North Main                 | below diversion                    | 64400                | 1812.00            | 60,00          | 68.37          | 63.92  | 68.64              | 0.000548             | 4.18         | 442.09                                | 68.51              | 0.27         |
| Vorth Main                 | below diversion                    | 84400                | 2685.00            | 60,00          | 69.19          |  | 69.66              | 0.000835             | 5.54         | 499.70                                | 71.64              | 0.35         |
| Vorth Main                 | below diversion                    | 64400                | 4893.00            | 60.00          | 70.92          | 67.09  | 71.39              | 0.000832             | 6.30         | 2315.87                               | 1509.81            | 0.36         |
| A BOLL                     |                                    | 00070                | 1005.00            | E 0.00         | 00.50          | 61 20  | 60.07              | 0.000195             | 2.29         | 001.67                                | 1957.40            | 0.10         |
| Vorth Main<br>Vorth Main   | below diversion<br>below diversion | 62879<br>62879       | 1085.00<br>1812.00 | 58.00<br>58.00 | 66.60<br>68.24 |  | 66.67<br>68.27     | 0.000195             | 1.93         | 991.67<br>2786.01                     | 3878.12            | 0.16<br>0.12 |
| North Main                 | below diversion                    | 62879                | 2685.00            | 58.00          | 69.19          |  | 69.22              | 0.000097             | 2.03         | 4133.14                               | 4915.35            | 0.12         |
| North Main                 | below diversion                    | 62879                | 4893.00            | 58.00          | 70.92          | -  | 70.95              | 0,000091             | 2.22         | 7205.69                               | 9177.72            | 0.12         |
|                            |                                    |                      |                    |                |                | 47.10  |                    |                      |              |                                       |                    |              |
| Vorth Main                 | below diversion                    | 62817                | 1085.00            | 58.00          | 66.63          | 61.09  | 66.65              | 0.000058             | 1.37         | 2473.19                               | 3705.76            | 0.09         |
| North Main                 | below diversion                    | 82817                | 1812.00            | 58.00          | 68.25          | 62.23  | 68.26              | 0.000037             | 1.25         | 4667.26                               | 5348.40            | 0.07         |
| North Main                 | below diversion                    | 62817                | 2685.00            | 58.00          | 69.19          | 63.30  | 69,20              | <del></del>          | 1.40         | 6087.83                               | 6230.33            | 0.08         |
| North Main                 | below diversion                    | 62817                | 4893.00            | 58.00          | 70.92          | 65.75  | 70.94              | 0.000049             | 1.72         | 8892.09                               | 9669.86            | 0.09         |
|                            | 180 30 - 1 - 1 - 3 - 34            |                      |                    |                |                | <del>                                     </del> |                    |                      |              |                                       |                    | 1            |
| North Main                 | below diversion                    | 62803                | Bridge             |                |                | <del> </del>                                     |                    |                      |              |                                       |                    |              |
| North Main                 | Balani di amian                    | 62789                | 1085.00            | 58.00          | 66.62          | 61.09  | 66.63              | 0.000055             | 1.33         | 2589.42                               | 3688.51            | 0.09         |
| North Main                 | below diversion<br>below diversion | 62789                | 1812.00            | 58.00          | 68.23          |  | 68.24              | 0.000034             | 1.20         | 4857.20                               | 5329.98            | 0.07         |
| North Main                 | below diversion                    | 62789                | 2685.00            | 58.00          |                | +  | 69.18              |                      | +            | 6323.78                               | 6212.10            |              |
| North Main                 | below diversion                    | 62789                | 4893.00            | 58.00          | <del>1</del>   |  | 70.92              |                      | <del></del>  | 9220.23                               | 9628.24            | 0,09         |
| Carlot Final A             |                                    |                      |                    |                |                |  |                    |                      |              |                                       |                    |              |
| North Main                 | below diversion                    | 62703                | 1085.00            | 58.00          | 68.61          | 61.10  | 66.63              | 0.000050             |              | 2774.64                               | 3686.15            | 0,08         |
| North Main                 | below diversion                    | 62703                | 1812.00            | 58.00          | <del> </del>   |  | 68.24              |                      | +            | 5152.81                               | 5326.37            |              |
| North Main                 | below diversion                    | 62703                | 2685.00            | 58.00          | 69.17          | <del></del>                                      | 69.18              | 0.00000              | 1.20         | 6687.65                               | 6210.09            | 0.07         |
| North Main                 | below diversion                    | 62703                | 4893.00            | 58.00          | 70.91          | 65.62  | 70.92              | 0.000041             | 1.58         | 9707.83                               | 9626.02            | 0.08         |
| North Main                 | below diversion                    | 62600                | 1085.00            | 58.00          | 66.61          | 61.08  | 66.61              | 0.000021             | 0.82         | 4806,31                               | 2984.23            | 0.05         |
| North Main                 | below diversion                    | 62600                | 1812.00            | 58.00          |                |  | 68.23              |                      |              | 8323.32                               |                    | 0.04         |
| North Main                 | below diversion                    | 62600                | 2685.00            | 58,00          |                |  | 69.17              | +                    | <del></del>  | 10482.64                              | <del></del>        |              |
| North Main                 | below diversion                    | 62600                | 4893.00            | 58.00          |                |  | 70.91              | 0.000018             | 1.04         | 14688.43                              | 8021.52            | 0.05         |
|                            | EXPERIME.                          |                      |                    |                |                |  |                    |                      |              |                                       |                    |              |
| North Main                 | below diversion                    | 61620                | 1085.00            | 58.00          | <del></del>    |  | 66.60              |                      |              | 5501.90                               |                    |              |
| North Main                 | below diversion                    | 61620                | 1812.00            |                |                | †·-  |                    |                      | 0.71         | 9132.56                               | <del></del>        |              |
| North Main                 | below diversion                    | 61620                | 2685.00            | 58.00          |                | +  |                    |                      | 0.81         | 12377.68                              |                    |              |
| North Main                 | below diversion                    | 81620                | 4893.00            | 58,00          | 70.90          | 64.52  | 70.90              | 0.000013             | 0.91         | 18878.28                              | 13097.95           | 0.05         |
| North Mair                 | below diversion                    | 61584                | 1085.00            | 58.00          | 66,50          | 60.95  | 66.58              | 0,000157             | 2.25         | 1027.01                               | 8647.34            | 0.15         |
| North Main<br>North Main   | below diversion                    | 61584                | 1812.00            | 58.00          |                |  |                    |                      |              | <del>†</del>                          |                    |              |
| North Main                 | below diversion                    | 61584                | 2685.00            | 58.00          |                |  | <del> </del>       |                      | +            |                                       |                    | <del>+</del> |
| North Main                 | below diversion                    | 61584                | 4893.00            | 58.00          |                |  |                    |                      |              | +                                     | +                  |              |
| <u> </u>                   |                                    | 100 N. A. S.         |                    |                |                |  |                    |                      |              |                                       |                    |              |
| North Main                 | below diversion                    | 81570                | Bridge             |                |                |  |                    |                      | ļ            | ļ                                     |                    |              |
| gy bosnit                  | 233334433                          | Harl-Ward så         |                    | L              |                |  | ļ                  | ļ                    |              | ļ                                     |                    | <u> </u>     |
| North Main                 | below diversion                    | 61556                | 1085.00            |                | <del></del>    |  | +                  |                      |              |                                       | +                  | 1            |
| North Main                 | below diversion                    | 61558                | 1812.00            | 58.00          |                |  |                    |                      | <del></del>  | · · · · · · · · · · · · · · · · · · · |                    |              |
| North Main                 | below diversion                    | 61556                | 2685.00            |                |                |  |                    |                      |              | <del></del>                           |                    |              |
| North Main                 | below diversion                    | 61558                | 4893.00            | 58.00          | 70.8           | 7 65.18  | 70.87              | 0.000029             | 1.33         | 14717.79                              | 13090.95           | 0.07         |
| the set 4.3.               | halasi di                          | 61440                | 1005.00            | E0.00          | 000            | 2 20.07  | 66.53              | 0.000029             | 5 0.95       | 4755.05                               | 8272.32            | 0.06         |
| Vorth Main<br>Vorth Main   | below diversion                    | 61443<br>61443       | 1085.00            | <del></del>    |                |  |                    | <del></del>          | 1            |                                       | <del> </del>       | <del></del>  |
|                            | below diversion                    | 01990                | 1612.00            | 58.00          | r 00.1         | 02.00  | 00,12              | 0.00001              |              | 0010.01                               | D. EV.E.           | 9 0.05       |

Plan: P 25% 3 (Continued)
Reach River Sta Q Total IEC-DAS River Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area: Top Width Froude # Chl (cfs) (ft) (H) (ft) (ft) (ft/ft) (ft/s) (sq ft) North Main 81443 w diversion 4893.00 58.00 70.86 65.58 70.86 0.000013 0.94 20752 04 13089 20 0.05 North Main 60700 1085.00 58.10 66.51 61.05 66.51 0.000016 0.77 7066.04 8956.89 0.05 North Main elow diversion 60700 1812.00 58.10 68.15 62.12 68.15 0.000006 0.54 15387.65 10824.37 0.03 North Main 60700 nour diversion 2685.00 58.10 69.11 63.62 69.11 0.55 21569.73 11904.02 0.03 North Main noisravib wole 80700 4893.00 58.10 70.85 65.57 70.85 0.000005 0.57 13087.48 0.03 North Main 1085.00 58,00 66.35 ow diversion 58982 60.95 66.44 0.000185 2.41 795.83 5302 91 0.16 North Main slow diversion 1812.00 58.00 68,10 62.04 68.12 0.000058 1.56 6133 55 9674 16 0.09 North Main elow diversion 2685.00 58.00 89.08 63.10 69.09 0.000030 1.21 11801.16 10612.52 0.07 North Main elow diversion 4893.00 58.00 70.84 65.16 70.85 0.000015 0.98 23722.38 11688.82 0.05 North Main 1085.00 58.00 66.32 61.00 niow diversion 66.43 2.66 418.23 3380.31 0.18 North Main below diversion. 8809 1812.00 58.00 68.00 62.14 68.09 0.000188 2.78 2265.53 6370.08 0.17 North Main below diversion: 8909 2685.00 58.00 69.03 63 27 69 07 D 000114 2.34 5752.34 8180.85 0.13 North Main 8909 w diversion 4893.00 58.00 70.84 65.36 70.85 0.000044 1.62 15123.66 10217.06 0.08 North Main elow diversion 3887 Bridge North Main 1085.00 58.00 66.22 61,00 68,34 0.000240 2.70 411.91 3294.51 0,18 North Main below diversion 58865 1812.00 58 00 67 89 62 14 88.00 0.000213 2 04 1997 AR 6177.80 0.18 North Main noisnavib wole 58866 2885.00 58.00 68.97 63,27 69.02 0.000123 2.41 5519.66 8063.46 0.14 North Main 58.00 4893.00 70.82 65.36 70.83 0.000045 1.83 15013.34 10214.36 0.08 North Main 58787 1085.00 58.00 66.21 61.00 66.32 0.000240 2.69 449.04 3281.15 0.18 North Main below diversion 58787 1812.00 58,00 67.90 62.14 67 98 0.000150 2.47 2949.80 6183.20 0.15 North Main below diversion 58787 2685.00 58.00 68.97 63.27 68 99 0.000080 1 95 7292 23 8394 45 0.11 North Main below diversion 58787 4893.00 58.00 70.81 65.38 70.82 0.000029 1.31 18248.06 10143.17 0.07 North Main below diversion 57900 1085.00 58.00 60.85 66.15 66.18 0.000083 1.59 3385.50 2397.25 0.11 North Main below diversion 57900 1812.00 58.00 67.**88** 61.93 67.89 0.000031 1.13 6072.91 4647.20 0.07 North Mair 57900 2685.00 58.00 68.95 63.00 68.95 0.000025 10195.33 6852.98 0.06 North Main below diversion 4893.00 58.00 70.80 66.02 70.80 0.000019 1 08 20905.54 9640.29 57900 0.06 55821 1085.00 58.00 North Main below diversion 65.96 60.98 66.00 0.000098 1.80 2546.07 3383.33 0.12 North Main 55821 below diversion 1812.00 58.00 67.84 62.06 67.84 0.000019 0.92 10392.26 8651.37 0.05 North Mair elow diversion 55821 2885.00 58.00 68.93 63.08 68.93 0.000011 17784.71 9534.55 0.75 0.04 55821 North Main 4893.00 elow diversion 58.00 70.78 66.08 70.78 30514.72 10116.75 0.000007 0.67 0.03 North Main about diseased on 55758 1085.00 58.00 65.96 60.90 65.99 0.000093 1.78 2706.39 3705.07 0.11 North Main below diversion 55758 1812.00 58.00 67.83 61.99 67.83 0.000015 0.81 11659 02 8811.04 0.05 North Main below diversion 55750 2685.00 58.00 68.92 63.01 68.92 0.000008 0.66 19072.97 9501.08 0.04 North Main below diversion 55750 4893.00 58.00 70.77 66.00 70.77 0.000006 0.62 31666.71 10047.28 0.03 North Main elow diversion 55744 Bridge North Main noimevila wole 55730 1085 00 58 00 65 90 60.90 85 Q8 0.000140 2.14 1558.64 2842.25 0.14 North Main below diversion: 55730 1812.00 58.00 67.80 61.99 67.81 0.000038 1.30 7636.58 0.08 6685.29 North Main below diversion 55730 2685.00 58.00 68.91 63.01 68.91 0.000022 1.06 12721.07 9239.48 0.06 North Main 55730 below diversion 4893.00 58.00 70.74 66.20 70.74 0.000013 0.92 24733.77 10642.77 0.05 1085.00 58.00 North Main below diversion 55644 65.90 60.90 65.94 0.000117 2001.32 2394.37 0.13 below diversion North Main 55844 1812.00 58.00 67.80 61.99 67.80 0.000027 1.09 8059.17 7076.85 0.06 58.00 North Main below diversion 55844 2685 00 68.91 63.01 68 01 0.000018 0.91 14651.00 R631 71 0.05 North Main below diversion 55644 4893.00 58.00 70.73 66.04 70.74 0.000010 0.82 27539.64 10002.54 0.04 North Main 1085.00 58.00 60.68 65.86 0.000088 3145.82 0.11 65.83 1.71 2742.43 North Main elaw diversion 54900 1812.00 58.00 67.78 61.70 67.78 11540.88 5564.52 0.000013 0.76 0.04 North Main 54900 2685.00 58.00 62.70 68.90 18000.01 6735.72 0.04 North Mair aloue diversion 54900 4893.00 58.00 70.72 65.93 70.73 0.000007 0.67 29082.51 7974.21 0.03 1085.00 58.00 65.69 2335.29 North Main below diversion 53165 60.76 65.71 0.000084 1.53 1569.28 0.11 North Main 58.00 53165 1812.00 61.81 2890.41 below diversion 67.75 67.76 0.000026 1.02 7010.23 0.08 North Main elow diversion 68.87 10684.58 3644.80 53166 2685.00 58.00 62.77 68.88 0.000022 1.02 0.08 North Main noiseasib wole 53165 4893.00 58.00 70.71 65.20 70.71 0.000019 1.06 18394.32 6305.73 0.08 North Main 53128 1085.00 58.00 65.61 60.67 65.69 0.000178 2.37 925.31 955.93 0.16 North Main below diversion 53128 1812.00 58.00 67.73 61.67 67.75 0.000056 1.58 4712.61 2840.74 0.09 North Main below diversion 53128 2685.00 58.00 68.87 62.64 68.88 0.000039 1.43 8494.68 3763.36 0.08 4893.00 58.00 70.71 64.60 70,71 0.000027 1.32 16509.3 6452.B2 0.07 North Main elow diversion 53128 North Main elow diversion 53114 Bridge North Main 53100 1085 00 58.00 65 57 60.67 65 65 0.000184 2 40 891.88 943.93 0.16 North Main below diversion 53100 1812.00 58.00 67.71 61.67 67.73 0.000053 1.54 5225,33 3452.82 0.09 58.00 4441.53 North Main balow diversion 53100 2685.00 68.84 62.84 68.85 0.000033 1.32 9784.60 0.07 6861.35 5B.00 1.18 19049.18 North Main elow diversion 53100 4893.00 70.69 64.60 70.69 0.000021 0.06 58.00 0.000188 2.41 871.25 936.45 0.16 North Main slow diversion 2987 1085.00 65.55 60.67 65.63 North Main elow diversion 52087 58.00 67,70 61.67 67.72 0.000054 1.55 5190.99 3439 12 0.09 1812.00 North Mair alow diversion 52987 2685.00 56.00 68.83 62.64 68.84 0.000034 1.33 9729.93 4433.25 0.07 6841.06 North Main below diversion 52987 4893 00 58.00 70.6B 64 60 70.68 0.000021 1.18 19002.05 0.06

(Continued) River Sta Q Total JEC-DAS Plan: P. 25% Min Ch El W.S. Elev Crif W.S. E.G. Elev E.G. Slope River Sta Vel Chnl Flow Area Top Width Froude # Chl (ft) (cfs) (ft) (ff) (ft) (ft) (ft/ft) (ft/s) (sq.ft) North Main elow diversion 60.63 65.54 0.00020 2.52 817.77 1109.93 0.17 North Main 1812.00 58.00 below diversion 52500 67.68 61.63 67.70 0.000041 1,35 6337.98 3657.96 0.08 52500 North Main below diversion 2885 00 58.00 68.82 62.61 4497.20 11020.49 0.06 North Main below diversion 52500 4893.00 58.00 70.67 64.58 70.67 0.000017 1.06 20375.14 6836.18 0.05 North Main 1085.00 noisravib wok 50599 56.00 65.10 59.11 65.19 0.000171 2.46 458.52 69.92 0.16 North Main below diversion 1812.00 56.00 67.39 60.26 67.54 0.000196 3.13 632.48 124 55 0.17 56.00 below diversion 68.46 61.39 2685.00 68.69 0.000277 3.98 1332.17 1867,39 0.21 North Main 4893.00 56.00 70.56 63.51 70.61 0.000097 2.64 10137,23 7632.90 0.13 North Main 50550 1085.00 56 00 65.10 58.92 65.18 2.26 482.17 71.23 0.15 North Main below diversion 50550 1812.00 56.00 67.41 60.02 67.53 0.000174 743.49 2.82 792.07 0.16 North Main below diversion 50550 2685.00 56.00 68.54 61.14 68.66 0.000174 3.04 3090 82 3501.71 0.16 North Main 50550 below diversion 4893.00 56.00 70.57 63.32 70.59 0.000056 1.93 12161.63 B547.10 0,10 North Main elow diversion 50536 Bridge North Main 1085 00 56.00 65.07 58.92 65.15 50522 0.00016 2.27 480.50 71.14 0.15 North Main below diversion 50522 1812.00 56.00 67.33 60.02 67.45 0.000180 2.86 739.01 615.87 0.16 North Main below diversion 50522 2685.00 56.00 68.43 61.13 68.57 0.000197 3.21 2705.02 3385.64 0.17 North Main low diversion 50522 4893.00 56.00 70.55 63.32 70.57 0.000057 1.95 12037.78 8538 95 0.10 below diversion 50423 1085.00 56.00 65.06 58.93 65.14 0.000165 2.27 479.54 71.09 0.15 North Main 1812.00 56.00 67.31 60.03 67.44 0.000181 2.86 730.13 591.82 0.16 North Main below diversion 50423 2685.00 58.00 68.41 61.13 88 55 0.000201 3364.21 3.24 2635,19 0.18 North Main below diversion 50423 4893.00 56.00 70.54 63.32 70.56 0.000058 11984,26 8535.43 1.96 0.10 North Main below diversion 49400 1085.00 58.95 56.00 64.87 64.95 0.000176 2.29 475.29 73.32 0.15 below diversion 1812.00 56.00 67.12 67.24 60.05 0.000188 2.86 772.06 2009.26 0.17 North Main 56.00 68.33 61.13 68.3 0.000099 2,26 5583.32 4640.61 0.12 North Main below diversion 4893.00 56.00 70.51 49400 63.29 70.52 1.31 17576.28 8229.56 0.07 North Main below diversion 48450 1085.00 56.00 64.67 59.09 64.77 0.000196 2 53 443 87 71 46 0.17 North Main below diversion 48450 1812.00 56,00 87.10 60.23 67.12 0.000053 1.59 6055.86 5068.04 0.09 2685.00 North Main below diversion 48450 56.00 68.32 61.33 68.32 0.000022 1.12 12396,73 5685.80 0.06 North Main oelow diversion 48450 4893.00 56.00 70.50 63.41 70.50 0.000010 0.83 26125.35 9109.14 0.04 North Main reach 1 233324 2722.00 53.37 64.47 57.28 0.000308 3.03 897.50 104,17 64.62 0.18 North Main mach 1 233324 4319.00 53.37 66.84 58.59 67.02 0.000332 3.50 1871.84 1293.07 0.19 reach 1 North Malo 233824 6086 00 53 37 68.14 59.82 68.26 0.000270 3.32 4147.84 2121.65 0.18 North Main reach 1 233824 10949.00 53.37 70.43 62.59 70.48 0.000162 2.48 9481.63 2565.12 0.14 North Main 2722.00 53.37 56.93 2.75 64.22 64.33 0.000251 988.06 114,24 0.17 North Main reach 1 232833 4319.00 53.37 66.60 58.16 66.72 0.000240 2537.31 3.02 1796.85 0.17 North Main 6086.00 53.37 59.30 68.05 2.55 2556.00 0.13 North Mak reach t 232833 10949.00 53.37 70.33 61.86 70.36 0.000087 2.12 12305.85 2992.02 0.10 North Main reach 1 232775 2722.00 53.37 64.20 56.93 64.32 0.000252 2.76 986 33 114 18 0.17 North Main reach 1 232775 4319.00 53.37 66.57 58.16 66.70 0.000244 3.04 2494.75 1770.51 0.17 North Main 53,37 67.97 reach 1 232775 6086.00 59.30 68.03 0.000154 2.56 5739.29 2554.57 0.13 North Main reach 1 232775 10949.00 53.37 70.32 61.86 70.35 0.000087 2.12 12272.85 2988.00 0.10 North Main reach 1 232000 2722.00 53.37 64 00 56.81 64 12 0.000257 2.80 971.13 110.77 0.17 North Main reach 1 232000 4319.00 53.37 66 53 58 01 66 56 0.000095 1 66 8852 18 3472 36 0.10 North Main reach t 232000 6086.00 53,37 67.95 59.13 67.96 0.00004 1.25 12095.75 4049.05 0.07 North Main 10949.00 reach 1 232000. 53,37 70.29 61.69 70.30 0.000027 1.08 21926.29 4336.41 0.06 North Main reach 1 230198 2722.00 52.60 63.60 55.95 63.70 0.000209 2.57 1059.76 118.33 0.15 North Main reach 1 230198 4319.00 52.60 66.28 57.10 66.35 0.000136 2.37 4942.36 4795.66 0.13 North Main reach 1 230198 6086 00 52 60 67 87 58.19 67.88 0.000040 1.38 14353.08 6272.26 0.07 North Main reach 1 230198 10949.00 52.60 70.26 60.69 70.2€ 0.000017 0.93 29371.54 6300.00 0.05 North Main reach 1 230130 2722.00 52.60 63.57 55.95 2.57 1057.17 63.68 0.000211 118.24 0.15 North Main 230130 4319.00 52.60 66.27 57.10 66.34 4864.12 reach 1 0.000138 2.39 4762.03 0.13 North Mair reach 1 230130 6086.00 52.60 58.19 67.86 0.000040 14323.08 6272.21 0.07 North Main reach 1 230130 10949.00 52.60 70.25 70.26 0.000017 0.93 29355.40 6300.00 0.05 60.69 52.60 North Main reach 1 230000 2722.00 63.54 56.04 63.65 0.000229 2.67 1018.37 114.90 0.16 North Main reach 1 230000 4319.00 52.60 66.25 57.22 66.31 0.000171 2.34 4521.21 4275.50 0.14 North Main 6085.00 67.86 0.000046 reach 1 230000 52.60 58.36 67.87 1.32 13695.11 6142.04 0.07 10949.00 52.60 0.000018 28438.00 6184.82 0.05 North Main reach 1 70.25 60.90 70.26 0.93 230000 North Main reach 1 228819 2722.00 52 61 63.30 55.79 63.39 0.000199 2.48 1095 78 124.53 0.15 North Main reach 1 228819 4319 00 52 61 65.95 56.90 66.08 0.000214 2 92 1921.96 1447.77 0.16 North Main reach 1 228619 6086.00 52.61 67.74 57.96 67.79 0.000102 2.16 8098.57 5498.52 0.11 10949.00 21787,70 5625.35 North Main reach 1 228819 52.61 70.21 60.36 70.22 0.000036 1.25 0.07 227602 North Main 2722.00 52.61 62.95 3.02 0.18 reach 1 56.20 63.09 0.000315 227602 0.000355 1207.77 248.50 0.20 North Main reach 1 4319.00 52.61 65.54 57.42 65.74 3.61 227602 6086.00 North Main reach 1 52.61 67.51 58.60 67.59 0.000234 2.75 5958 64 5806.23 0.16 North Mair reach 1 227602 10949.00 52.61 70.16 61.20 70.17 0.000039 1.17 22483.65 6265.34 0.07

62.42

55.91

52.41

0.000335

62.57

North Main

reach 1

226000

2722.00

108,15

0.19

887.36

HEC DAS (Continued)
River Sta Q Total Pian : P 25% Rive Reach Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area (cfs) Top Width Froude # Chl (R) (ft) (ft) North Main (ft/ft) reach 1 226000 (ft/s) (ft ps) 4319.00 52 41 (ft) 57.12 North Main 65 18 0.000377 reach 1 226000 3.66 1173.08 6088.00 118.01 52.41 66.73 0.21 58.26 North Main each 1 67.03 0.000462 226000 10949.00 4.38 1389 54 124.95 52.41 69.79 0.23 60.66 70.00 0.000457 4.31 5194.27 2103.42 0.23 North Mair reach 1 224978 2722.00 52.41 62.12 55.62 North Main 62.25 reach 1 0.000283 224978 2.80 970.73 4319.00 52.41 120.30 0.17 84.62 58.73 North Main 64.80 reach 1 224978 0.000316 3.36 1284,13 6086.00 52.41 130.77 0.19 66.33 North Main 57.78 66,58 0.000389 reach 1 4 01 1545,01 224978 10949.00 52.41 200,59 0.21 69.08 60.20 69.47 0.000548 5.24 3160.23 1261,34 0.26 North Main each 1 224934 2722.00 52.41 62.11 North Main 55.62 62.23 0.000284 reach 1 2.81 224934 4319.00 969 11 120.24 52.41 64.60 0.17 56.73 North Main 64.78 0.000317 each 1 224934 6086.00 52.41 3.37 1282,11 130.70 0.19 66 31 57.78 66.56 North Main each 1 0.000391 4.02 224934 10949.00 1541,28 199.40 52.41 0.21 69.05 60.19 69.44 0.000555 5.27 3121.54 1258.23 0.26 North Main reach 1 223155 2722.00 52.35 61.48 55.72 61.63 North Mair 0.000399 reach 1 223155 3.18 856.34 4319.00 114.10 52.35 0.20 63.82 56.87 64.03 0.000574 223155 ach 1 3.74 1203.20 8088.00 293.35 52 35 65.50 0.24 57.96 North Main 65.74 0.000542 each: 1 223155 10949.00 4.02 1822.51 433.14 52.35 68.00 60.43 0.24 68.29 0.000695 4.76 3143.72 639,39 0.28 North Main ech 1 222000. 2722.00 52.03 60.97 55 47 61.15 0.000445 North Main reach 1 222000. 3.32 819.95 110.75 4319.00 52.03 0.22 63,17 North Mai 56.62 63.41 0.000502 reach 1 3.99 6086.00 52.03 382.41 0.23 64.87 57.73 65.07 North Mair 0.000597 reach 1 222000 10949.00 3.91 2350.91 937.68 52.03 0.25 60.22 67.67 0.000379 3.47 5480.85 1361.13 0.20 North Main reach 1 220735 2722.00 51.94 60.31 55.35 60.51 North Main 0.000587 reach 1 3.59 220735 4319.00 757.25 109.28 51.94 0.24 62.40 56.53 62.69 North Main each t 0.000645 4.34 220735 995.30 6086.00 51.94 118.71 0.28 63.74 57.64 64.17 North Main 0.000827 reach 1 5.25 220735 1158.93 0.30 10949.00 51,94 124.78 65,96 60.14 66.76 0.001534 7.27 1957.90 1090.77 0.42 North Main reach 1 220433 2722.00 51.94 60.25 55.35 North Main 60.45 0.000582 reach 1 3.63 220833 750.41 109.00 4319.00 51,94 0.24 62 33 56.53 North Main 62.62 0.000661 reach 1 4.38 220633 6086.00 986.73 118.39 51.94 0.27 63.65 57.84 64.08 North Mak each 1 0.000851 5.31 1147.04 220833 10949.00 124.35 51.94 0.31 65.70 60.14 66.59 0.001578 7.63 1692.43 908.24 0.42 North Mair reach 1 220295 2722.00 51 84 60.09 North Main 55.03 60.28 0.000487 reach 1 220205 3.36 810.07 115.28 4319.00 51.84 62.15 0.22 56.13 62 41 North Main 0.000580 reach 1 220295 4.09 1056.07 6086.00 123.65 51.84 63.41 57.16 0.25 0.000735 North Main 63.60 each:1 220295 10949.00 5.00 1240 B1 322.74 51.84 65.57 59.55 0.2966.03 0.001023 5.95 3226.08 1718.41 0.34 North Main reach 1 219330 2722 On 51.58 59.77 54 33 59.88 North Main each 1 0.000295 2.68 219330 1024.74 143.86 4319.00 0.18 51.58 61.60 55,24 61.96 North Main 0.000343 reach 1 219330 3.26 1324.19 152,20 6086.00 51.58 0.19 62.95 58.12 63.20 Vorth Mah 0.000488 reach 1 219380 4.05 1502.28 156.95 10949.00 51.58 0.23 64.59 58.17 65.12 5.95 2468.99 1317.63 0.32 North Main reach t 218000 2722.00 51.24 59 41 53.79 59.51 North Main 0.000284 reach 1 2.55 1087.75 218000 4319.00 148 38 51.24 0.17 61.38 54.69 61.52 North Main each I 0.000319 3.17 218000 1361.19 6086.00 153.87 0,19 51.24 62.38 55.55 62.61 North Main ech 1 0.000422 3.86 2101.36 218000 10949.00 1345.29 0.22 51.24 63.99 57.54 64.22 0.000480 4.45 4953.44 2033.98 0.24 North Main reach 1 210008 2722.00 51.24 58.91 54.22 59 08 0.000502 3.27 each t 216808 4319.00 832.B! 127.94 0.23 51.24 60.78 55.25 North Main reach 1 61.02 0.000562 3.92 1348.13 216808 1087.62 6086.00 51.24 61.90 0.25 56.23 62.07 North Main 0.000467 each 1 3.80 3345.75 215808 10949.00 2173.56 51.24 0.23 63.66 58.45 63.74 0.0003283.34 7881.37 2990.15 0.19 North Main nach t 216752 2722.00 51.24 58.88 54.22 59.05 North Main 0.000510 reach 1 216752 3.28 828.91 127.79 4319.00 51.24 0.23 60.75 55.25 60 99 North Main 0.000572 reach I 210752 3.94 1313.95 1040.07 6086.00 51.24 61 86 56.23 0.25 62,04 0.000484 North Mair 3.86 216752 3261.64 2161.32 10949.00 0.23 51.24 63.64 63.72 0.000335 3.37 7818.12 2982.80 0.19 North Main wach 1 216000 2722.00 51.25 58.36 54.28 58.59 North Main 0.000725 nach t 3 83 710.28 216000 111,74 4319.00 51.25 0.27 60.18 55.34 60.49 0.000774 North Main reach 1 4.52 1265.80 216000 1143.25 6086.00 51.25 0.29 61.53 56.37 61 68 North Main reach 1 218000 3.75 3602.92 1965.45 10949.00 51.25 63.40 0.23 58.70 63,48 0.000352 2.94 7641.85 2427.02 0.19 North Main reach 1 214269 2722.00 51.25 57.38 53.54 57.52 North Main 214269 0.000513 3.02 901.75 159.17 4319.00 0.22 51.25 59.12 54.38 59.33 0.000552 North Main each t 3.65 1184.62 214269 165,77 6086.00 51.25 0.24 60.60 55.15 60.82 North Main ach 1 0.000516 3.91 2272.59 214289 1234.53 10949.00 0.24 51.25 62.64 56.97 62.81 0.000437 4.03 4929.81 1416.59 0.22 North Main reach 1 212822 2722.00 51.25 55.02 54.07 55.75 0.005010 North Main 6.89 reach 1 212822 395.07 111.84 4319.00 0.65 51.25 56 90 55.08 57.67 0.003202 North Mair 7.05 612.64 each t 212822 6086.00 118.98 0.55 51.25 58.40 56.03 59.31 North Main each 1 0.002858 7.66 794.83 212822 10949.00 124.65 0.53 51.25 60.32 58.20 61.51 0.003182 9.28 1710.37 679.75 0.58 North Main ach 1 212818 Inline Weir North Main reach 1. 212789 2722.00 44.29 55.01 47.79 55.12 0.00023 North Main 2.71 each 1 1005.78 212769 115.13 4319.00 0.16 44.29 56.90 57.09 North Main reach 1 0.000336 3.51 1229.56 212769 6086.00 44.29 122.15 0.20 58.39 50.03 58.59 North Main reach:1 0.000350 3.81 2247.80 590.42 212769 10949.00 0.20 44.29 60.32 52.52 60.6 0.000502 4 91 3511.68 729.03 0.25 North Main 211780 reach 1 2722.00 43.38 46.37 54.94 0.000124 North Main 2.04 reach 1 211780 1335.54 144 20 0.12 4319.00 43.36 56.81 47.41 56.86 0.000112 2.11 3782.78 1599.14 0.11

Plan: P 25% 3 (Cantinued)
River Sta | Q Total HEC\_DA River PAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Froude # Chi (cfa) (ft/ft) (ft/e) (tt pe) (11) North Main reach 1 211780 1.9 0.11 0.00009 2208.99 11867.2 10949.00 50.64 North Mair 43.36 60.29 60.32 0.000096 1.92 0.11 North Main reach t 210419 2722.00 43.30 54.62 46.84 54.72 0.000204 2.52 1079.09 122.64 0.15 North Main reach 1 210419 4319.00 43.36 56.68 48.04 56.72 0.000115 2.03 5148.87 2658.00 0.11 North Main reach 1 210419 6086.00 43.36 58.24 49.17 58.25 0.000073 1.29 10052.60 3921,55 0.09 10949.00 51.69 North Main reach 1 210419 43.36 60,23 60.24 0.000049 1.16 18578.87 4582.51 0.07 2722.00 43.31 46.86 54.44 2.51 North Main 20904 54.34 0.00020 1083.54 122.08 North Main 4319.00 43.31 58,32 47.81 56.48 0.000278 3.24 1334,39 186.01 0.18 reach 1 209041 North Main each 1 209041 6086 00 43 31 57.90 48 90 58 OB 0.000293 3.54 2824 05 1522 99 0.19 North Main each 1 209041 10949.00 43,31 60.03 51.36 60.13 0.000231 3.36 8222,01 4681.43 0.17 North Main 54.12 46.61 54.22 2.58 reach 1 208000 2722.00 43.31 0.000212 1055.31 118.69 0.15 North Main reach 1 208000 4319,00 43.31 56.00 47.75 56.18 0.000302 3.36 1285.56 129,54 0.19 6088.00 43.31 48.83 57.70 0.000477 : 98 1980.15 North Mair reach 1 57.46 1205.95 0.23 North Mair each 1 208000 10949.00 43.31 59.64 51.32 59.91 0.000293 2.76 9552.77 5699,27 0.18 Nextb Main reach 1 207788 2722.00 43.31 54.09 46.64 54.19 0.000213 2.52 1079.07 126.89 0.15 reach 1 43.31 55.94 47.80 56.11 0.000302 3.26 191.74 0.19 North Main 207786 4319.00 1326.29 57.60 North Mair 6086.00 43.31 57.43 48.88 0.000337 3.50 2942.49 1881.89 0.20 207786 North Main each 1 207786 10949.00 43.31 59.82 51.32 59.85 0.000185 2.13 12335.71 5400.60 0.14 North Mair ach t 207730 2722.00 43 31 54.08 46 64 54.17 0.000213 2.53 1077.50 126 82 0.15 North Main reach 1 207730 4319.00 43.31 55.93 47.79 56.09 0.000303 3.27 1323,01 181.93 0.19 6086.00 3.51 1867.52 North Mair reach 1 207730 43.31 57.42 48.88 57.59 0.000339 2921.25 0.20 10949.00 43.31 51.32 59.84 0.000187 2.14 5388.80 0.14 North Main reach t 207730 59,81 12277.28 North Main reach 1 206000 2722.00 43.32 53.72 46.52 53.81 0.000200 2.46 1703.4 1761.64 0.15 North Main reach 1 208000 4319.00 43 32 55.84 47 64 55.86 0.000056 1.42 8555.79 3952 08 0.08 North Mair reach 1 206000 6086.00 43.32 57,43 48.69 57.43 0.000026 0.94 14851.51 3988.45 0.05 51.10 0.000019 0.83 24594.53 0.05 North Main reach 1 206000 10949.00 43.32 59.75 59.75 4372.45 North Main reach 1 204471 2722.0 43,1 53.34 53.46 0.00026 2.79 0.17 0.000341 North Main reach 1 204471 4319.0 43,17 55.48 47.64 55.67 3.50 1233.41 124.93 0.20 North Main menh 1 204471 6088 00 43 17 57 Q3 48 73 57 29 0.00052 4.15 1641.37 485 73 0.24 North Main reach 1 204471 10949.0 43.17 59.36 51.22 59.64 0.000623 4.78 3851.30 1400.42 0.27 2.22 1227.81 147.95 North Main 43.15 0.14 reach 1 203192 2722.00 53,10 45.93 53.18 0.000168 2.77 0.16 North Main 203192 4319.00 43.15 55.18 46.91 55.30 0.000214 1606.64 194.84 reach 1 reach 1 6086.00 43.15 56.62 47.83 56.79 0.000278 3.35 217.94 0.18 North Main 203192 4.90 747.09 North Main reach t 10949.00 43.15 58.59 2810.81 0.25 203192 North Main ach 1 202000 2722 00 42 72 52.87 45 68 52 96 0.000195 2.44 1116 02 128 37 0.15 North Mair reach 1 202000 4319.00 42.72 54.86 46.71 55.01 0.000264 3.13 1378,62 135.85 0.17 0.000368 2076.30 785.33 0.21 North Main reach t 202000 6086.00 42.72 56.20 47.70 56.41 3.72 4029.69 49.96 58.29 0.000526 4.47 1338.02 0.25 10949.00 42.72 58.04 North Main reach 1 202000 North Main reach 1 201961 2722.00 42.72 52,86 45 69 52.95 0.00019 2.38 1142.35 134 61 0.14 4319.00 42.72 54,85 46.72 54 99 0.00025 3.05 1419 44 148 33 0.17 North Mair reach 1 201961 201961 North Mair reach 1 6086 DC 42.72 56.19 47.69 56.38 0.00032 3.62 2152.12 905.78 0.19 North Mair reach 1 201961 10949.00 42.72 58.02 49.93 58.26 0.00045 4.41 4419.95 1626.89 0.23 201917 2.39 1141.19 134.57 42.72 52.94 0.14 North Main 2722.00 52.85 reach 1 North Main 46.72 54.98 0.000256 3.05 1417.72 148.17 0.17 reach 1 201917 4319.00 42.72 54.84 reach 1 6086.00 42.72 56.17 47 70 56 37 0.000323 3 63 2138 74 899 25 0.19 North Main 201917 North Main reach 1 201917 10949.00 42.72 57,99 49.93 58.23 0.000460 4.44 4367.91 1605.19 0.23 2.40 1132.91 128.93 0.14 42,52 45.48 0.000187 North Main 201322 52.83 reach 1 2722.00 52.74 1388,55 42.52 46.49 54.82 0.000257 3.11 815.66 0.1 reach 1 4319.00 54.67 North Main 201322 47.49 0.000362 3.90 1561.64 976.96 0.21 North Mair reach 1 42.52 56.17 201322 10949.00 42.52 49.74 57.85 0.00084 6.27 1747.31 1144.60 0.32 Vorth Main 201322 57.24 2.63 1033,84 0.17 North Main each 1 200876 2722.00 42.52 52.58 45.87 52.69 0.000258 133.02 0.19 54.65 3.17 1802.59 888.20 42.52 46.99 0.000308 North Main reach 1 200676 4319.00 54.50 42.52 48.0 55.93 3.26 3066.26 1072.76 0.19 55.80 0.00032 200676 6086.00 North Mair reach 1 4949.62 0.26 10949.00 42.52 57.17 50.46 57.3 0.00066 3.50 1660.19 North Mair reach 1 200676 reach 1 200030 2722.00 42 52 52.42 45 58 52 53 0.00023 2.63 1035.63 123 17 0.16 North Main North Mair reach 1 200030 4319.00 42.52 54.34 46.67 54.47 0.00026 3.05 2070.51 809.39 0.17 0.00008 1.87 10549.70 6242.65 0.10 North Mair reach 1 200030 6086.00 42.52 55.78 47.69 55.81 1.67 6435.21 0.09 50.03 57.17 0.00006 19308.93 10949.00 42.52 57.16 North Main reach 1 200030 2722.00 42.52 45.58 52.51 0.000238 2 63 1033 61 123 10 0.16 52.41 North Main 199964 4319.00 42.52 54.32 46 67 54.45 0.000263 3.06 2055 28 807.00 0.17 North Main reach 1 reach 1 1999R4 6086.00 42.5 55.77 47.69 55.80 0.00008 1.88 10511.77 6241.81 0.10 North Mair 57.17 1.68 19282.37 6434.71 0.09 North Main reach f 199984 10949.00 42.52 57.16 50.03 0.00006 45.43 52.05 0.000229 2.55 1292.44 601.74 0.16 42.52 51.95 North Main reach 1 198000 2722.00 4319.00 42.52 54.17 46.47 54.19 0.000066 1.55 8094.80 435B.20 0.09 North Main each 1 198000 0.000029 1.10 17051 23 7605 51 0.08 North Main 6086.00 42.52 55.70 47.44 55.70 reach 1 198000 North Main 42.52 57.09 49.68 57.09 0.000026 1.00 27834.86 7797.04 0.05 reach 1 198000 10949.00

HEC DAS Plan: P 25% 3 (Continued)
River Reach River Sta Q Total Min Ch B W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (11) (ft) (ft/ft) (ft/s) (sq:ft) (ft) North Main reach 1 197361 2722.00 42 52 51.79 45.47 51.90 0.000261 1033,60 191.74 0.17 North Main reach 1 197381 4319 00 42.52 54.08 46.50 54.13 0.000137 5108.35 3538,40 0.12 North Main reach 1 197381 6086.00 42.52 55.67 47 49 55 68 0.000053 1.48 11910.40 5410.14 0.08 North Main ach 1 197381 10949.00 42.52 57.07 49.73 57.08 0.000048 1.48 22015.97 8907.88 0.08 North Main reach 1 197333 2722.00 42,52 51.78 45.48 51.69 0.000262 2.65 1031.13 188 88 0.17 North Main reach 1 197333 4319.00 42.52 54.02 46.51 54.11 0.000209 2.68 3553.23 3327.98 0.15 North Main reach 1 197333 6086.00 42.52 55.66 47.49 55.68 0.000073 1,71 10398.16 5407.23 0.09 North Main each 1 197333 10949.00 42.52 57.06 49.73 0.000060 1.63 20512.49 8907.39 80.0 North Main each 1 196000 2722.00 42.53 51.37 45 52 51.50 0.000321 2.87 950.03 126.67 0.18 North Main reach 1 198000. 4319.00 42.53 53.56 46.56 53.74 0.000361 3.44 1369.60 328.10 0.20 North Main reach 1 198000 6086,00 42.53 55.46 47.56 55.53 0.000192 2.55 6217.71 3947.58 0.15 North Main each 1 198000 10949,00 42.53 56.93 49.84 56.96 0.000140 2.06 12951.50 5116.19 0.12 North Main reach t 194500 2722.00 42.53 50.73 45.69 50.91 0.000491 3.37 808.50 115.68 0.22 North Main reach 1 194500 4319.00 42.53 52.81 46,79 53.07 0.000559 4.08 1058.29 124.40 0.25 North Main 194500 reach t 6086.00 42.53 54.72 47.83 55.03 0.000580 4.57 1682.9 1123.64 0.26 North Mair reach 1 194500 10949.00 42.53 56.51 50.22 56.63 0.00036 3.69 8212.23 0.20 North Main each i 194434 2722.00 42.53 50.70 45.69 50.87 0.000498 3.38 804.49 115.54 0.23 North Main each 1 184434 4319.00 42,53 52.77 46,79 53.03 0.000567 4.10 1053.32 124.23 0.25 North Main reach 1 184434 6086.00 42.53 54.67 47.63 0.000594 4.81 1608.90 1075,37 0.26 North Main reach 1 184434 10949 00 42.53 56.48 50.21 56.60 0.000378 8077.5 4441.08 0.21 North Main each 1 194000 2722.00 42.44 50.48 45.57 50.66 0.000496 3.34 814.69 119 04 0.23 North Main each 1 94000 4319.00 42.44 52.53 46,64 0.000562 52.79 4.05 1087.66 127 98 0.25 184000 North Mair marb t 6088.00 42.44 47.67 54.73 0.000493 4.07 2833.00 2847.68 0.24 North Main each 1 194000 10949.00 42.44 56.41 50.00 0.000234 2.52 10660.36 4470.43 0.16 North Main reach 1 192000 2722.00 42.24 49.23 45.25 49.46 0.000740 3.81 714.91 116.06 0.27 North Main reach 1 192000 4319,00 42.24 51.11 48.30 51.44 0.000817 4 59 123.37 940.16 0.29 North Malr reach 1 92000 6088.00 42.24 53.01 47.30 53.39 0.000927 5.03 1454.27 939.05 0.31 North Main each 1 92000 10949.00 42.24 55,87 49.59 55.94 0.000277 2.94 7887.57 2495.12 0.17 47.10 North Malo mach 1 190533 2722 00 42 24 46.27 45.31 0.005222 7.29 373.52 99,45 0.66 North Main reach 1 190533 4319.00 42.24 48.61 48 40 49.38 0.002791 7.01 616,10 107.67 0.52 North Main reach 1 190533 6086 00 42 24 50.42 47.42 51.28 0.002365 7.46 815.91 114.03 0.49 North Mair reach 1 190533 10949.00 42.24 53.62 49.78 54.91 0.002547 9.11 1202.25 5023.94 0.53 North Main reach 1 90528 Inline Weir North Main each 1 190513 2722.00 38.26 46.27 41,44 46.47 0.000563 3.60 758.27 107.36 0.24 North Mair mach 1 190513 4319.00 38 26 48.61 42.58 48.89 0.000587 4.25 1016.96 115.17 0.25 4.95 North Main reach 1 90513 6086.00 38.26 50.41 43.62 50.79 0.000665 1229.43 120,89 0.27 North Mair reach 1 190513 10949.00 38.26 53.61 46.07 54 30 0.001033 6.68 1638.46 5013.77 0.35 North Main reach 1 90000 2722.00 38.26 46.00 41.28 46.18 0.000525 804.04 3.39 120.34 0.23 North Main reach 1 190000 4319.00 38.26 48.35 42.35 48.59 0.000523 3.93 1098.53 130,33 0.24 North Main reach 1 190000 6086 00 38.26 50.13 43.34 50.45 0.000584 4.55 1336.60 3825.55 0.26 North Main reach 1 190000 10949.00 38.26 53.17 45.64 53.76 0.000967 6.15 1779.52 5328.12 0.34 North Main reach 1 189032 2722.00 38.26 45.39 41.32 45,60 0.000699 3.65 745.31 124.57 0.26 North Meir reach 1 189032 4319.00 47.78 38.26 42.37 48.04 0.000629 4.08 1059 42 138.08 0.26 North Main reach:1 89032 6088.00 38.26 49.51 43.37 49.84 0.000683 4.66 1305.83 512.59 0.28 North Main reach t 189032 10949.00 38.26 52,11 45.64 52.74 0.001128 6.36 1721.76 4874.13 0.36 North Mair reach 1 188975 2722.00 38.26 45 35 41 32 45 58 0.000715 3.68 739.74 124.32 0.27 North Main 188975 reach 1 4319.00 38.26 47.74 42.37 48.00 0.000638 4.10 1053.99 137.84 0.26 North Mai 188975 6086.00 reach t 38.26 49,46 43,37 49.80 0.000693 4.68 1299 46 485 86 0.28 North Mak 88975 10949.00 52.04 reach 1 38.26 45.64 52.67 0.001157 6.41 1708.05 4821.02 0.36 North Mair ach 1 188000 2131.00 37.63 44.85 40.94 44.96 0.000458 2.66 800.97 154.89 0.21 0.000296 North Main reach 1 188000 3219.00 37.63 47 42 41.65 47.53 2.63 1223.65 171.57 0.17 North Mair reach 1 188000 4396.00 37.63 49.18 42.28 49.30 0.000275 2.87 1530.51 177.41 0.17 North Mai 88000 9519.00 37.63 51.39 each 1 44.54 51.78 0.000631 4.93 1930.80 5419.03 0.27 37.63 North Mair reach 1 187869 2131.0 44.72 40.61 44.89 658.54 111.50 0.000584 3.24 0.23 Mouth Mair reach 1 187869 3219.00 37.63 47.30 41.43 47.47 0.000419 3.35 959.50 122.37 0.21 North Mair reach 1 187880 4396.00 37.63 49 04 42.21 49.25 3.73 129.69 0.22 North Main reach 1 187869 9519.00 37.63 50,94 44.93 51.62 0.001139 1433.02 6.64 137.71 0.36 187894 34.85 North Main reach 1 2131.00 44.71 38.32 44.81 0.0002352.49 854.45 108.83 0 16 North Main reach \$ 187694 3219.00 34.85 47.28 39.19 47.40 0.000227 2.81 1146.39 118.31 0.16 North Mair reach t 187694 4396.00 34.85 49.02 39.99 49.18 0.000261 3.24 1357.12 124.85 0.17 North Main 187694 reach 1 9519.00 34.85 50.87 42.84 51.42 0.000770 5.97 1595.10 131.78 0.30 North Main reach 1 186000 2131.00 34.04 44 44 36 94 44.50 0.000134 1 99 1073.01 127.40 0.12 North Mair reach 1 188000 3219.00 34.04 47.01 37.76 47.09 0.000148 2.28 1414.45 147.14 0.13 North Main 34.04 196000 48.83 reach 1 4396.00 38.52 48.87 0.000107 1.80 5697.19 4006.12 0.11 North Main reach 1 196000 34.04 9519.00 51.00 51.01 41.21 0.000058 1,45 14895.18 4156.62 0.08 North Main reach 1 184000 2131.00 34.09 44.19 44.25 36.66 0.000128 1.96 1085.10 126.37 0.12

P 25% 3 (Continued) leach River Sta 0 Total HEC-DAS River Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl Reach (cfa) (ft/ft) (11) (ft) (ft/a) (aq ft) (ft) rearts 1 1B4000. 34.09 North Main 37.45 0.000132 0.12 North Mair reach t TRAININ 4396.00 34.09 48 40 38.21 AR AC 0.000167 1683 18 392.79 0.14 2.64 North Mair reach 1 184000 9519.00 34.09 50.79 40.83 50.84 0.000147 2.34 10052.61 4100.62 0.13 2131.00 0.000121 1103.36 North Main 182000. 33.49 43.93 36,10 43.99 1.93 125.62 0.11 North Main 182000. 33.49 46.47 36.90 46,55 3219.00 0.000128 2.24 1434.00 135.12 0.12 4396.00 North Main 182000 33.49 37.68 0.000144 4097.81 48.21 48.27 2.22 3872.93 0.13 each 1 0.000086 North Main 182000 9519.00 33.49 50.62 40.35 50.64 1.59 14106.77 4125.33 0.09 reach 1 North Mair 180000 2131.00 33,44 43 67 36.12 43 74 0.000134 2 01 1060 23 123.01 0.12 reach 1 North Main 180000 3219 00 33 44 46 20 36 93 46 28 0.000141 2 33 1382 39 132.55 0.13 reach 1 North Main 180000 4396.00 33.44 47.84 37.70 47.95 0.000170 2.74 1605.14 138.77 0.14 North Main reach 1 180000. 9519.00 33.44 50.40 40.38 50.44 0.000138 2.29 10372.90 4111.40 0.13 33,43 36.68 0,000245 North Main 178120 2131.0 43.30 2.50 113.00 0.16 North Main 2.79 mach t 178120 3219.00 33.43 45.82 37.63 45 94 0.000238 1152.69 126.49 0.16 North Main reach t 178120 4396.00 33.43 47.38 38.52 47.54 0.000281 3.24 1357.16 134.88 0.16 North Main reach 1 178120 9519.00 33.43 50.05 41.54 50.14 0.000216 3.12 8373.56 4099.88 0.16 North Main reach 1 178059 2131.00 33.43 43.29 36.66 43.39 0.000240 2,50 850.73 112.95 0.16 North Main reach 1 3219.00 33.43 45.8 37.63 45.93 0.000239 2.80 1151.61 126.44 0.16 North Mair reach 1 178059 4398.00 33.43 47.37 38 52 47.53 0.000282 3.24 1355.78 134.83 0.18 North Main reach 1 178059 9519.00 33.43 50.03 41.54 50,12 0.000219 3,14 8314.43 4099.23 0.16 reach 1 33.28 36.16 0.000167 977.95 118.56 North Main 178000 2131.00 43.30 43.37 2.18 0.13 North Main 178000 3219.00 33.28 45.81 37.00 45.91 0.000171 2.50 1288.58 128.53 0.14 North Mair reach 1 178000. 4396.00 33.28 47.38 37.80 47.51 0,000201 2.94 1494.39 134.73 0.16 178000. 9519.00 33.28 50.06 50.10 0.000148 2.20 10610.93 4162.59 0.13 North Main reach t 178000 2131 00 33 44 42 94 36 22 43 02 0.000189 2 25 948 21 121 34 0.14 North Main reach 1 176000. 3219.00 33.44 45.45 37.05 45.55 0.000186 2.54 1267.53 132.59 0.14 North Main reach 1 176000 4396.00 33.44 46.93 37.86 47.07 0.00023 2.99 1468.32 142.88 0.16 North Mair 9519.00 33.44 49,76 40.61 49.80 0.000148 2.32 5020.29 0.13 reach 1 178000 North Main reach 1 174292 2131.00 32.56 42 68 35 39 42 74 0.000133 1.99 1069 54 125 16 0.12 North Mair reach 1 174282 3219.00 32.56 45,19 36.18 45.28 0.000138 2.31 1393.99 133.11 0.13 North Main reach 1 174282 4396.00 32.56 46.60 36,92 46.71 0.000181 2.78 1583.90 140.60 0.15 6614.79 North Main reach 1 174282 9519.00 32.56 49.30 39.50 49.45 0.000329 3.53 6902.95 0.19 North Main 173031 32.46 42.48 35.27 42.56 0.000164 2.16 984.3 119.64 2131.00 0.13 reach 1 0.000169 1298.01 North Mair reach 1 173031 3219.00 32.46 44.99 36.12 45.08 2.48 131.00 0.14 North Main reach 1 173031 4396.00 32.46 46.33 36.94 46 47 0.000219 2.97 1477.70 137.11 0.16 North Main ach 1 173031 9519.00 32.46 49.02 39.74 49.12 0.000198 3,11 9888.07 7835.90 0.16 2131.00 35.27 42.55 0.000165 2.17 983,26 119.60 0.13 North Main reach t 172979 32.46 42.48 32.46 36.12 1296.83 130.96 0.14 44.98 45,08 0.000170 2.48 North Main reach t 172979 3219.00 32.46 North Mair 46.32 36.94 0.00021 2.98 1476.08 137.06 0.16 4396.00 reach 172979 reach 1 172979 9519.00 32.46 49.00 39.74 49.10 0.000204 3.16 9703.76 7833.75 0.16 North Mair North Main nach 1 172000 2131.00 32.46 42.32 35.18 42.39 0.000158 2.13 1002.07 121.33 0.13 North Main reach 1 172000 3219.00 32.46 44.82 36.00 44.91 0.000161 2.45 1316.36 130.04 0.14 32.46 46.24 1486,92 134.52 36.78 0.000210 2.96 0.16 North Main reach I 172000 4396.00 46.11 32.46 48.50 48.77 0.000552 4.48 4140.48 3487.04 39.52 0.25 North Main reach 1 172000 9519.00 reach 1 170000 2131.00 32.45 42 D1 34 99 42.08 0.000150 2.07 1027 27 123.76 0.13 North Main North Main eaach 1 170000 3219.00 32.45 44.50 35.77 44.59 0.000155 2.39 1346.77 133.47 0.13 North Main reach f 170000 4396.00 32.45 45.66 36.51 45.79 0.000243 2.91 1510.67 156.57 0.17 0.000863 1731.12 0.31 32.45 47.00 39.12 47.47 5.50 179.38 North Main reach 1 170000 9519.00 0.000184 983.37 123.77 0.14 North Main reach 1 68000 2131.00 32.50 35.12 41.75 2.21 32.50 44.16 35.92 44.26 0.000177 2.50 1370.25 628.44 0.14 North Main each 1 168000 3219.00 North Main earh t 16BDDC 4398.00 32 50 45 21 36.67 45.30 0.000239 2.55 3653.53 3992.53 0.16 0.17 North Main reach 1 168000 9519.00 32,50 46.41 39.32 46.47 0.000282 2.84 8487.48 4232.98 32.50 41.61 35.19 41.69 0.000207 2.33 913.27 117.61 0.15 reach 1 187722 North Main 2131.00 0.15 North Main 3219.00 32.50 44.09 36,00 0.000202 2.64 1219.96 reach 1 167722 0.000226 North Main reach 1 167722 32 50 45.11 36.78 45.23 2.93 2962.57 4049.09 0.16 9519.00 32.50 46.33 39.52 46.41 0.000223 3.05 10436.21 7241.52 0.16 North Main each 1 167722 41.59 35.19 117.54 0.15 North Main reach 1 167642 2131.00 32.50 41.68 0.000208 2.34 911.25 32.50 44.08 36.01 0.000203 2.65 1217.77 136.95 44.19 0.15 North Main reach 1 167642 3219.00 3888.28 North Main 187642 32.50 45.09 36.79 45.21 0.00023 2.96 2865,66 0.16 4396.00 reach 1 46.31 39.52 0.00023 10222.63 7226.56 0.16 North Main each 1 167642 9519.00 32.50 46.38 3.11 0.000238 0.16 North Main each 1 166000 2131.00 32.51 41.22 35,23 41.3D 2.39 892.01 124.77 36.05 1226.41 0.17 North Main each 1 168000 3219.00 32.51 43.69 43.80 0.000275 2.62 166.20 36.83 3.14 1640.61 1884.60 0.20 44.56 44.72 32.51 0.000398 North Main reach 1 166000 4396.00 39.53 0.000174 13005.90 0.14 46.01 2.24 North Main reach 1 166000 9519.00 32.51 31.68 40 83 34.23 40.90 0.000171 2.12 1003.28 130.48 0.13 North Main 184000 2131.00 164000. 3219.00 31.68 43 24 35 01 43 32 0.000206 2 28 1665.13 941.61 0.15 North Main reach 1 6695.53 North Main reach 1 164000 4396.00 31.68 44.20 35,75 44.24 0.000140 1,96 6273.46 0.12 18522.39 7844.15 45.82 38.37 0.000066 1.45 0.09 North Main reach 1 164000 9519.00 31.68 45.83

| River                    | Reach              | River Sta        | Q Total            | Min Ch El      | W.S. Elev  | Crit W.S.      | E.G. Elev      | E.G. Slope   | Vei Chni   | Flow Area           | Top Width      | Froude # Chi  |
|--------------------------|--------------------|------------------|--------------------|----------------|--|----------------|----------------|--------------|--|---------------------|----------------|---------------|
| J & 1 7 1                | profile :          | 1 3 3 4          | (cls)              | (ft)           | (ft)   | . (ft)         | (ft)           | (fVft)       | (ft/s)   | (sq ft)             | (ft)           | sprag         |
|                          | () ( v             |                  |                    |                |  |                |                |              |  |                     |                |               |
| orth Main                | reach 1            | 163662           | 2131.00            | 31.34          | 40.77  | 33.90          | 40.84          | 0.000158     | 2.09   | 1020.64             | 127.57         | 0.13          |
| lorth Main               | reach 1            | 163662           | 3219.00            | 31.34          | 43.17  | 34.68          | 43.25          | 0.000191     | 2.36   | 1585.36             | 950.32         | 0.14          |
| orth Main                | reach 1            | 163662           | 4396.00            | 31.34          | 44.14  | 35.43          | 44.18          | 0.000202     | 2.07   | 4927.37             | 4677.43        | 0.14          |
| orth Main                | reach 1            | 163682           | 9519.00            | 31.34          | 45.80  | 38.04          | 45.81          | 0.000103     | 1.68   | 14317.01            | 6000.00        | 0.11          |
| lorth Main               | reach 1            | 183805           | 2131.00            | 31.34          | 40.76  | 33.90          | 40.83          | 0.000159     | 2.09   | 1019.48             | 127.53         | 0.13          |
| lorth Main               | reach 1            | 163805           | 3219.00            | 31.34          | 43.16  | 34.69          | 43.24          | 0.000190     | 2.37   | 1574,78             | 927.70         | 0.14          |
| lorth Main               | reach 1            | 163605           | 4396.00            | 31.34          | 44.12  | 35.43          | 44.17          | 0.000205     | 2.09   | 4868.77             | 4657.32        | 0,14          |
| lorth Main               | reach 1            | 163605           | 9519.00            | 31.34          | 45.79  | 38.04          | 45.81          | 0.000104     | 1.66   | 14280.64            | 6000.00        | 0.11          |
|                          |                    | 1887.3           |                    |                |  |                |                |              |  |                     |                |               |
| forth Main               | reach 1            | 162000.          | 2131.00            | 31.35          | 40.49  | 33.93          | 40.58          | 0.000180     | 2.16   | 987.24              | 129,92         | 0.14          |
| Vorth Main               | reach 1            | 182000.          | 3219.00            | 31.35          | 43.01  | 34.72          | 43.03          | 0.000084     | 1.45   | 5925.04             | 4970.45        | 0.09          |
| Vorth Main               | reach 1            | 162000.          | 4398.00            | 31,35          | 44.02  | 35.48          | 44.03          | 0.000043     | 1.06   | 11970.29            |                | 0.07          |
| lorth Main               | reach 1            | 162000.          | 9519.00            | 31.35          | 45.71  | 38.10          | 45.71          | 0.000029     | 0.95   | 24754.86            | 7883,17        | 0.08          |
| 1.40.00                  | 38733              |                  | 0404.00            |                | 40.48  | 00.07          | 40.23          | 0.000154     | 2.01   | 1058,48             | 137.24         | 0.13          |
| Vorth Main<br>Vorth Main | reach 1<br>reach 1 | 180000.          | 2131.00<br>3219.00 | 31.35<br>31.35 | 40.18<br>42.71                                     | 33.67<br>34.39 | 42.79          | <del></del>  | 2.28   | 1425.89             |                | 0.13          |
| Vorth Main               | reach 1            | 160000.          | 4396.00            | 31.35          |  |                | 43.89          | 0.000126     | 1.92   | 5785.96             |                | 0.12          |
| Vorth Main               | reach 1            | 160000.          | 9519.00            | 31.35          |  | 37.51          | 45.62          | 0.000083     | 1.48   | 18280.64            |                | 80.0          |
|                          | Carlos III         | 188 (179         |                    |                |  |                |                |              | 1  |                     | <u> </u>       |               |
| Vorth Main               | reach 1            | 158000.          | 2131.00            | 31.36          | 39.79  | 33.86          | 39.87          | 0.000212     | 2.26   | 941.23              | 130.56         | 0.15          |
| North Main               | reach 1            | 158000.          | 3219.00            | 31,38          |  | 34.62          | 42.38          | 0.000221     | 2.50   | 1285.52             | 158.22         | 0.15          |
| North Main               | reach 1            | 158000           | 4398.00            | 31,38          |  | 35. <b>34</b>  | 43.61          | 0.000164     | 2.11   | 5041.88             | <del></del>    | 0.13          |
| North Main               | reach 1            | 158000.          | 9519.00            | 31.36          | 45.48  | 37.88          | 45.49          | 0.000066     | 1.44   | 18248.26            | 7860.84        | 0.09          |
|                          | 1000.880.010       | 100.00           |                    |                |  |                |                |              |  |                     | ļ              |               |
| North Main               | reach 1            | 157191           | 2131.00            | 31.36          | 39.58  | 33.94          | 39.67          | 0.000264     | 2.49   | 854.58              | 120.27         | 0.16          |
| North Main               | reach 1            | 157191           | 3219.00            | 31.36          | •  | <del></del>    | 42.20          | <del></del>  | 2.78   | 1187.68             |                | 0.16          |
| North Main<br>North Main | reach t            | 157191           | 4396.00<br>9519.00 | 31.36<br>31.36 | 43.27<br>45.40                                     | 35.49<br>38.13 | 43.42<br>45.42 | 0.000285     | 3.20<br>2.06                                       | 1999.55<br>15361.61 |                | <del></del>   |
| Norus Mawi               | Total I            | 137191           | 9519.00            | 31.30          | 45.40  | 36.13          | 45.42          | 0.000103     | 2.00   | 13007.01            | 0000.00        | <u> </u>      |
| North Main               | reach 1            | 157140           | 2131.00            | 31.36          | 39,56  | 33.94          | 39.66          | 0.000265     | 2.50   | 852.87              | 120.21         | 0,17          |
| North Main               | reach 1            | 157140           | 3219.00            | 31.36          |  | 34.73          | 42.18          | ·            | 2.76   | 1168.04             | ·              | <del>(</del>  |
| North Main               | reach 1            | 157140           | 4396.00            | 31.36          | <del></del>  | +              | 43.41          | 0.000288     | 3.21   | 1962.40             | 2428.57        | 0,18          |
| North Main               | reach 1            | 157140           | 9519.00            | 31.38          | <del></del>  | 38.13          | 45.42          | 0.000104     | 2.07   | 15316.75            | 8000.00        | 0,11          |
| Jaki irai                |                    | date factors     |                    |                |  |                |                |              |  |                     |                |               |
| North Main               | reach 1            | 158000.          | 2131.00            | 31.38          | 39.24  | 33.87          | 39.35          | 0.000286     | 2.58   | 833.42              | 119.63         | 0.17          |
| North Main               | reach 1            | 158000.          | 3219.00            | 31.36          | 41.78  | 34.64          | 41.90          | 0.000254     | 2.80   | 1148.36             | 130.38         | •             |
| North Main               | reach 1            | 156000.          | 4396.00            | 31.38          | 42.86  |                |                | <del></del>  | 3.19   | 1808.10             |                | •             |
| North Main               | reach 1            | 156000.          | 9519.00            | 31.36          | 45.30  | 38.00          | 45.32          | 0.000074     | 1.57   | 17676.38            | 7827.50        | 0.00          |
|                          | #L41831 1-104 1    | 140.0            | ļ. <u></u>         |                |  | <b> </b>       | ļ              |              |  |                     |                |               |
| North Main               | reach 1            | 154644           | 2131.00            | 31.37          | +  |                | 38.95          |              | 2.54   | 837.74              | 1              |               |
| North Main               | reach 1            | 154644           | 3219.00            |                | <del>                                       </del> |                | <del></del>    | -            | 2.76   | 1166.95             | •              |               |
| North Main               | reach 1            | 154844           | 4396.00            | 31.37          | 4  | <del></del>    | <del> </del>   | 1            | 3.42   | 1288.80             |                | <del></del>   |
| North Main               | reach I            | 154844           | 9519.00            | 31.37          | 45.06  | 37.68          | 45,14          | 0.000284     | 3.07   | 9394.73             | 1110.71        | 0.10          |
| North Main               | reach 1            | 153231           | 2131.00            | 31.03          | 38.35  | 33.72          | 38.47          | 0.000396     | 2.81   | 759.36              | 122.37         | 0.20          |
| North Main               | reach 1            | 153231           | 3219.00            | 31.03          | +  |                |                | _            | 2.91   | 1106.90             | +              |               |
| North Main               | reach 1            | 153231           | 4396.00            |                | +  |                | <del> </del>   | -            | 3.64   |                     |                | <del></del>   |
| North Main               | reach 1            | 153231           | 9519.00            | 31.03          |  |                | 44.50          | <del></del>  | 5.09   | 4160.42             | 5574.67        | 0.33          |
| 5×81:5 11.               | Subjection of      | 19 g 19 1111     |                    |                |  |                |                |              |  |                     |                |               |
| North Main               | reach 1            | 152581           | 2131.00            | 31.00          | 38.0   | \$ 33.67       | 38.10          | 0.000476     | 3.00   | 710,17              | +              | <del></del>   |
| North Main               | reach 1            | 152581           | 3219.00            | 31.05          | 3 40.83  |                |                |              | 3.03   |                     |                | <del></del>   |
| North Main               | reach 1            | 152581           | 4398.00            | 31.00          | -+   |                | <del></del>    |              | 3.83   | +                   |                |               |
| North Main               | reach 1            | 152581           | 9519.00            | 31.03          | 43.6   | 2 37.90        | 43.83          | 0.000939     | 4.35   | 5171.2              | 8 4657.41      | 0.3           |
|                          | Tedapoki bili i    | <u> </u>         |                    | ļ              | <del> </del>                                       | -              | <b> </b>       | <del> </del> |  |                     | <del> </del>   | <del> </del>  |
| North Main               | reach f            | 152553           | Inline Weir        | <del> </del>   | +  | 1              | <del> </del> - | <del> </del> |  | <del> </del>        | <del>  -</del> | <del> </del>  |
| March Ad-1               | Innert 4           | 150545           | 2121 22            | 20 20          | 5 38.0   | 4 30.86        | 38.10          | 0.000151     | 2.08   | 1026.5              | 4 124.94       | 0.1           |
| North Main<br>North Main | reach 1            | 152515<br>152515 | 2131.00<br>3219.00 |                |  |                |                |              | 2.08   | <del></del>         |                | · <del></del> |
| North Main               | reach 1            | 152515           | 4396.00            |                |  | <del></del>    |                |              | 2.98   |                     | -              | <del>,</del>  |
| North Main               | reach 1            | 152515           | 9519.00            | <del></del>    |  |                | +              |              |  |                     |                |               |
|                          |                    | 1                | 1                  |                |  | -              | 1              |              | 1  |                     |                |               |
| North Main               | reach 1            | 152000.          | 2131.00            | 28.29          | 5 37.9   | 6 30.90        | 38.0           | 0.000162     | 2.12   | 1002.9              | 4 124.4        |               |
| North Main               | reach 1            | 152000.          | 3219.00            |                |  |                |                | 4 0.000150   |  |                     | 7 136.6        | <del></del>   |
| North Main               | reach 1            | 152000.          | 4396.00            | 28.2           | 5 41.3   | 3 32.5         | 41.4           | 7 0.000238   | 3.04   | 1446.8              | 9 139.1        | 0.1           |
| North Main               | reach 1            | 152000.          | 9519.00            | 28.2           | 5 43.5   | 0 35.2         | 43.5           | 8 0.000227   | 2.88   | 9830.1              | 2 7807.1       | 2 0.1         |
|                          |                    |                  | <u> </u>           |                | ļ  |                |                | <u> </u>     | ļ  |                     |                |               |
| North Main               | reach 1            | 151600           | 2131.00            |                |  |                |                |              |  |                     |                | <del></del>   |
| North Main               | reach 1            | 151800           | 3219.00            |                |  |                | <del></del>    |              | <del></del>  |                     | +              | -             |
| North Main               | reach 1            | 151600           | 4396.00            |                | <del></del>  |                | <del></del>    | <del></del>  |  |                     |                |               |
| North Main               | reach 1            | 151600           | 9519.00            | 28.2           | 5 43,4   | 5 34.9         | 1 43.5         | 0.000140     | 2.50   | 12456.9             | /996.8         | - 0.1         |
| Nie Ale Re-              |                    | 40044            |                    | 000            | 5 27 5   | 9 30.7         | 7 37.9         | 5 0.000147   | 2.07   | 1031.4              | 3 122.8        | 2 0.1         |
| North Main               | reach 1            | 151516           | 2131.00<br>3219.00 | <del></del>    |  | ~              | <del></del>    |              | <del>•                                      </del> |                     |                |               |
| North Main<br>North Main | reach 1            | 151516           | 4396.00            | +              |  |                | +              |              | ·  | <del></del>         |                |               |
| North Main               | reach 1            | 151516           | 9519.00            | +              |  |                | +              |              |  |                     |                | <del></del>   |
| · was mali               | - I venet I        | 1.3.3,3          | 3313.00            | 20.2           | 72.3   |                | 1              | 2.350,00     |  | 1                   | 1              | 1             |
| North Main               | reach 1            | 150000.          | 2121.00            | 27.9           | 2 37.6   | 5 30.6         | 6 37.7         | 2 0.000165   | 2.15   | 994.9               | 1 124.7        | 3 0.1         |
| North Main               | reach 1            | 150000.          | 3193.00            |                |  |                |                |              |  | _                   |                | <del></del>   |
| North Main               | reach:1            | 150000.          | 4299.00            |                |  |                |                |              |  |                     |                |               |
|                          |                    | 150000           | 9227.00            |                |  |                |                |              |  |                     | 6 3267.9       | 0 0.3         |
| North Main               | reach f            |                  |                    |                |  |                |                |              |  |                     |                |               |

Plan: P 25% 3 (Continued) Reach River Sta 0 Total HEC 2AG W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chri Flow Area Top Width Froude # Chi Min Ch El River (ft/a) (sq ft) (ft/ft) (cla) (ft) (ft) (ft) (ft) (fi) 37.35 29.94 37.4 0.000142 2.02 1047 77 126 33 North Mair each 1 48000 2121.00 27.1 0.12 3193.00 27.14 40.14 30,74 40 21 0.000166 2.18 1695 75 1190 53 0.13 North Mair North Mair 148000 4299 00 27.14 40.57 31 4B 40.60 0.000101 1.74 6671.67 5748.94 0.11 each 1 North Mair each 1 148000. 9227.00 27.14 41.54 34.13 41.57 0.000125 2.03 13844.97 7839.07 0.12 29.81 37.30 1.95 1068.6 129.66 2121.00 27,14 37.24 0.12 North Main reach t 147159 0.000129 147159 39.99 30.59 40.04 0.000243 1.91 2702.34 3993.30 0.15 North Main reach 1 3193.00 27.14 9847.18 40.52 0,000090 7985.39 North Main 4299.00 27.14 40.51 31.30 1.14 0.09 reach 1 147159 41.47 41.48 0.000085 1.22 17370.06 8000.00 North Main reach 1 147159 27.14 33.84 0.09 37 29 1.95 1087 83 North Main 147111 2121 00 27 14 37 23 29 St 0.000130 129 64 0.12 North Main reach 1 147111 3193.00 27.14 39.97 30.59 40.03 0.000247 1.92 2650.17 3885.17 0.15 9611.12 40.51 1.14 7985.00 North Main reach t 147111 4299.00 27,14 40.50 31.30 0.000091 0.09 41.47 33.84 41.46 1.22 8000.00 9227.00 27.14 0.00008 0.09 North Main reach 1 147111 North Mali 146000 2121.00 27.13 37.07 29 86 37 13 0.000148 2.06 1030 92 125 27 0 13 North Main each 1 146000 3193.00 27.13 39.74 30.65 39.80 0.000162 2.13 2261.73 2427.94 0.13 North Mair each 1 148000 4299 00 27 13 40.42 31.39 40.44 0.000053 1.25 10766.31 7813.36 0.08 41.39 1.45 18261.81 7829.19 North Main reach 1 146000. 9227.00 27.13 41.38 33.97 0.000085 0.09 36.74 29.88 36.82 0.000171 2.17 975.79 121.31 0.14 North Main 144000 2121.00 27.12 reach 1 North Main reach 1 144000 3193.00 27.12 39.33 30.69 39.42 0.000227 2.43 1314 20 171.46 0.15 North Main 144000 4299.00 27.12 40.27 31.42 40.29 0.000099 1.69 7414.50 7768.88 0.10 North Main 144000 9227 OC 27.12 41.20 34 04 41.22 0.000112 1.88 14727.72 7B15.32 0.11 each 1 2121.00 27.12 36.61 29,88 36.68 0.000177 2.18 972.47 123.60 0.14 North Main neach 1 143293 1309.27 161.08 143293 3193.00 27.12 39.16 30.68 39.25 0.000211 2.44 0.15 reach 1 North Main 40.22 North Main reach 1 4299.QC 27.12 40.21 31.41 0.000072 1.13 9857.59 7742 43 0.08 143233 North Main each t 43233 9227.00 27.12 41.14 34.03 41.14 80000.0 1.18 17174.79 8000.00 0.09 36.67 27.12 0.000177 2.18 971.20 123.76 North Main neach 1 143179 2121.00 36.60 29.88 0.14 39.15 39.24 2.44 1307.36 160.22 0.15 North Main reach 1 143179 3193.00 27.12 30.68 0.00021 1,13 7741.12 4299.00 27.12 40.21 31.42 0.000072 98268 0.08 North Main 143179 reach ' 0.00008 9227.00 27.12 41.13 34.03 41.14 1.22 17132.55 8000.00 0.09 reach 1 143179 North Mair each t 142000 2121.00 27.13 36.35 30.02 36,44 0.000221 2.36 899.80 120.75 0.15 North Main 2.61 1221.69 155.69 North Mair reach 1 142000 3193.00 27.13 38.86 30.86 38.97 0.000253 0.16 2.34 4305.02 3914.41 0.15 39.97 31.63 40.03 0.000195 North Mair mach 1 142000 4299.00 27.13 34.33 41.06 1.22 20172.93 7843.19 0.07 41.06 0.000050 North Main march t 142000 9227.00 27.13 29.55 36.27 0.000202 2.32 914.91 117.24 0.15 141221 2121.00 26.68 36.19 North Main North Main 3193.00 26.68 38.62 30.40 38.71 0.000431 2.35 1357 69 2172.61 0.20 reach 1 141221 4200 00 26 68 39.89 31 17 39.91 0.000113 1.36 6723 09 3992 87 0.10 North Main reach 1 141221 North Main reach 1 9227.00 26.68 41.04 33.89 41.04 0.000027 0.74 25386.10 8000.00 0.05 141221 26.68 36.18 29.55 2.32 913.28 0.15 2121.00 0.000203 141154 North Main reach 1 38.59 3193.00 26,68 30.39 38.68 2.36 1351.29 310.99 0.20 141154 North Main reach 1 1.35 141154 4299.00 26.68 39.88 31.17 39.90 0.000114 6711.24 3992.36 0.10 North Main reach 1 0.000027 28.68 41 04 33.89 41 04 0.73 25371.79 8000.00 0.08 North Main 141154 9227.00 North Main each i 140000 2121,00 26.64 35.94 29.39 36.02 0.000206 2.35 903.83 115.34 0.15 26.64 38.19 38.30 2.62 1587.63 1315.70 0.16 0.000242 3193.00 30.22 North Mais mach 1 140000 3613.29 26.64 39.7 30.99 0.00014 1.93 5337.27 0.12 4299.00 North Main reach 1 140000 22714.07 41.00 41.00 1.03 7882.90 0.06 140000 26.64 33.68 0.000038 reach 1 North Main 1002.24 122.24 138000 2121.00 25.62 35.59 28.39 35.66 0.000158 2.12 0.13 North Main ach 1 142.72 37.76 37.86 1280.13 North Main reach 1 138000 3193.00 25.62 29.22 0.000195 2.49 0.15 39.24 2086.29 2076.45 0.17 39.36 2.72 25.62 29.97 0.000260 North Main reach 1 138000 4299.00 7842.95 25.62 40.90 40.91 0.00006 1.45 17983.23 0.08 32.63 9227.00 North Main reach 1 138000 2160.00 25.62 35.28 28.22 35.35 0.000154 2.10 1028.09 123.81 0.13 North Main 136000 reach 1 3229.00 25 62 37.40 28 99 37.49 0.000173 2.49 1299.06 131.80 0.14 North Main reach 1 138000 North Main reach 1 136000 4321.00 25.62 38.75 29.68 38.89 0.000211 2.92 1481.12 136.91 0.16 7763.30 0.12 25.62 40.71 40.73 0.000123 1.95 12661.75 North Main reach 1 136000 9267.00 32.23 2.10 25.63 35.27 35.34 0.000156 1027.31 125.09 0.13 2160.00 28.27 North Main reach 1 135932 reach 1 135932 3229.00 25.63 37.39 29 04 37.49 0.000173 2.48 1300.68 132.86 0.14 North Main North Mair 4321.00 25 63 38 74 29.75 38 88 0.000211 2.91 1483 88 137.81 0.16 reach 1 ach 1 135932 9267.00 25.63 40.70 32.30 40.73 0.000105 2.08 12845,52 6611.10 0.11 North Main 125.07 0.13 25.63 35.26 28,27 35.33 2160.00 0.00015 135888 North Main reach 1 1299.62 132.84 0.14 3229.00 25.63 37.38 29.04 37.48 0.00017 2.48 135888 North Main reach 1 135886 25.63 38 74 29.75 38 87 0.000211 2.91 1482 60 137.78 0.16 4321.00 North Main reach f 9267.00 25.63 40.69 32.30 40.72 0.000106 2.09 12804 86 6596.99 0.11 reach 1 35888 North Main 0.14 34.92 0.000196 2.27 950.46 123.02 North Main reach 1 134000 2160.00 25.63 28.62 35.00 37.01 37.12 0.000209 2.65 1280.81 0.15 reach 1 25.63 North Mair 134000 3229.00 29.41 1595.77 0.17 25.63 0.000258 2.69 2559.32 30.09 North Main reach 1 134000 4321.00 40.43 8319.82 6021.02 0.16 40.3€ 32.61 0.000237 2.81 North Main reach 1 134000 9267.00 0.15 128.46 132000 2160.00 25 57 34.53 28 21 34.61 0.000200 2.25 959.22 North Main reach 1 138.30 0.15 North Main each 1 132000 3225.00 25.57 36.59 28.98 36.70 0.000213 2.61 1234.37 37.90 0.000261 562.85 0.17 25.57 37,76 3,05 1399.29 North Main ach 1 132000 4273 00 29.67

| River                    | Reach                 | Filver Sta                               | Q Total            | Min Ch El      | W.S. Elev | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl | Flow Area          | Top Width          | Froude # Chl |
|--------------------------|-----------------------|--|--------------------|----------------|-----------|----------------|----------------|------------|----------|--------------------|--------------------|--------------|
| North State              |                       | 1400000                                  | (cfs)              | (ft)           | (ft)      | (ft)           | (ft)           | (ft/ft)    | (N/s)    | (sq ft)            | (ft)               | , králi i    |
| North Main               | reach 1               | 132000.                                  | 9224.00            | 25.57          | 39.18     | 32.22          | 39.63          | 0.000882   | 5.47     | 2054.01            | 2065.01            | 0.32         |
| North Main               | reach 1               | 130750                                   | 2160.00            | 25.57          | 34.24     | 20.22          | 24.00          |            |          |                    |                    |              |
| North Main               | reach 1               | 130750                                   | 3225.00            | 25.57          | 36.29     | 28.23          | 34.33<br>36.41 | 0.000234   | 2.41     | 895.39             |                    | 0.16         |
| North Main               | reach 1               | 130750                                   | 4273.00            | 25.57          | 37.41     | 29.70          | 37.55          | 0.000249   | 2.80     | 1151.40            | 129.56             | 0.17         |
| North Main               | reach 1               | 130750                                   | 9224.00            | 25.57          | 38.03     | 32.31          | 38.48          | 0.001026   | 5.76     | 1878.57<br>2489.87 | 1075.62<br>1706.19 | 0.16         |
|                          | in September 1999     |  |                    |                |           |                |                | 0.001020   | 3.70     | 2409.07            | 1700.19            | 0.34         |
| North Main               | reach 1               | 130696                                   | 2160.00            | 25.57          | 34.23     | 28.23          | 34.32          | 0.000236   | 2.42     | 893.80             | 121.21             | 0.16         |
| North Main               | reach 1               | 130696                                   | 3225.00            | 25.57          | 36.27     | 29.02          | 38.39          | 0.000250   | 2.81     | 1149.59            | 129.50             | 0.17         |
| North Main               | reach 1               | 130696                                   | 4273.00            | 25.57          | 37.39     | 29.70          | 37.53          | 0.000320   | 3.07     | 1861.47            | 1058.28            | 0.19         |
| North Main               | reach 1               | 130696                                   | 9224.00            | 25.57          | 37.96     | 32.31          | 38.43          | 0.001073   | 5.86     | 2409.34            | 1641.93            |              |
|                          | 2.4                   | A CONTRACTOR                             |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 129441                                   | 2160.00            | 24.38          | 33,98     | 27.26          | 34.06          | 0.000185   | 2.26     | 956.74             | 118,77             | 0.14         |
| North Main               | reach 1               | 129441                                   | 3225.00            | 24.36          | 36.00     | 28.06          | 36.11          | 0.000209   | 2.68     | 1204.53            | 125.92             | 0.15         |
| North Main               | reach 1               | 129441                                   | 4273.00            | 24.38          | 37.00     | 28.76          | 37.16          | 0.000273   | 3.21     | 1331.79            | 129.45             | 0.18         |
| North Main               | reach 1               | 129441                                   | 9224.00            | 24.38          | 38.05     | 31.39          | 38.06          | 0.000064   | 1.51     | 16364.07           | 5634.29            | 0.09         |
| North Main               | reach 1               | 128185                                   | 2400.00            |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 128185                                   | 2180.00<br>3225.00 | 24.36          | 33.78     | 26.95          | 33.84          | 0.000168   | 2.16     | 1001.86            | 122.65             | 0.13         |
| North Main               | reach 1               | 128185                                   | 4273.00            | 24.36<br>24.36 | 35.76     | 27.71          | 35.86          | 0.000189   | 2.57     | 1253.37            | 129.31             | 0.15         |
| North Main               | reach 1               | 128185                                   | 9224.00            | 24.36          | 38.66     | 28.37          | 36.81          | 0.000335   | 3.11     | 1379.89            |                    | 0.18         |
|                          |                       | 7-0,00                                   | 3424.00            | 24.30          | 37.87     | 30.92          | 37.90          | 0.000184   | 2.22     | 8434.29            | 3959.25            | 0.14         |
| North Make               | reach 1               | 128137                                   | 2160.00            | 24.36          | 33.75     | 26.95          | 33.82          | 0.000167   | 244      | 1000 15            | 400.00             |              |
| North Main               | reach 1               | 128137                                   | 3225.00            | 24.36          | 35.74     | 27.71          | 35.85          | 0.000190   | 2.18     | 1000.15<br>1251.30 | 122.60             | 0.13         |
| North Main               | reach 1               | 128137                                   | 4273.00            | 24.36          | 36.64     | 28.37          | 38.79          | 0.000190   | 3.12     | 1251.30            | 129.26<br>179.63   | 0.15         |
| North Main               | reach 1               | 128137                                   | 9224.00            | 24.36          | 37.85     | 30.92          | 37.89          | 0.000186   | 2.23     | 8395.95            | 3957.47            | 0.19         |
| AN COMP                  | er grant de la        | Ger Ger , et                             |                    |                |           |                | 37.00          | 5.550166   | 4.23     | 0.80.85            | 3937.47            | 0.14         |
| North Main               | reach 1               | 128000.                                  | 2160.00            | 24.36          | 33.72     | 27.04          | 33.80          | 0.000179   | 2.20     | 982.55             | 124.51             | 0.14         |
| North Main               | reach 1               | 128000.                                  | 3225.00            | 24.36          | 35.71     | 27.82          | 35.82          | 0.000232   | 2.60     | 1241.73            | 148.78             | 0.16         |
| North Main               | reach:1               | 128000                                   | 4273.00            | 24.36          | 36.59     | 28.51          | 36.74          | 0.000344   | 3.09     | 1394.58            | 312.48             | 0.19         |
| North Main               | reach 1               | 128000.                                  | 9224.00            | 24.38          | 37.82     | 31.13          | 37.86          | 0.000168   | 2.27     | 8557.73            | 3922.62            | 0.14         |
| 40,893.60                | halifer (films order) |  |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 128275                                   | 2160.00            | 24.02          | 33.43     | 26.85          | 33.50          | 0.000167   | 2.11     | 1024.23            | 132.07             | 0.13         |
| North Main               | rsach 1               | 126275                                   | 3225.00            | 24.02          | 35.37     | 27.63          | 35.46          | 0.000178   | 2.48     | 1590.91            | 1019.10            | 0.14         |
| North Main               | reach 1               | 120275                                   | 4273.00            | 24.02          | 36.17     | 28.30          | 36.26          | 0.000213   | 2.69     | 2887.17            | 2783.58            | 0.15         |
| North Main               | reach 1               | 126275                                   | 9224.00            | 24.02          | 37.35     | 30.79          | 37.46          | 0.000325   | 3.49     | 7347.44            | 4801.57            | 0.19         |
| March Marin              | 1222                  | 400000                                   |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 126253                                   | 2180.00            | 24.02          | 33.42     | 26.84          | 33.49          | 0.000168   | 2.11     | 1022.80            | 132.04             | 0.13         |
| North Main               | reach 1               | 126253<br>126253                         | 3225.00<br>4273.00 | 24.02          | 35.37     | 27.63          | 35.46          | 0.000178   | 2.48     | 1589.95            | 1017.99            | 0.14         |
| North Main               | reach 1               | 126253                                   | 9224.00            | 24.02          | 36.16     | 28,30          | 36.26          | 0.000214   | 2.70     | 2873.33            | 2765.19            | 0.16         |
| TWA UT MAIN              | No.                   | 120233                                   | 9224.00            | 24.02          | 37.34     | 30.79          | 37.46          | 0.000328   | 3.51     | 7310.09            | 4591.08            | 0.16         |
| North Main               | reach 1               | 126194                                   | 2180.00            | 24.02          | 33.39     | 27.00          | 33.48          | 0.000214   | 7.00     | 040.04             |                    |              |
| North Main               | reach 1               | 126194                                   | 3225.00            | 24.02          | 35.38     | 27.81          | 35,44          | 0.000214   | 2.36     | 916.91<br>3019.64  | 120.26             | 0.15         |
| North Main               | reach 1               | 126194                                   | 4273.00            | 24.02          | 36.20     | 28.52          | 36.23          | 0.000124   | 1.83     | 6479.58            | 2355.46<br>4664.65 | 0.13         |
| North Main               | reach 1               | 126194                                   | 9224.00            | 24.02          | 37.39     | 31.20          | 37.42          | 0.000135   | 2.07     | 12779.40           | 5885.94            | 0.12         |
|                          |                       | 99 8 - 48 C                              |                    |                |           |                |                |            |          | 12/15.40           | 3003.54            | 0.12         |
| North Main               | reach 1               | 126142                                   | 2160.00            | 24.02          | 33.37     | 27.00          | 33.46          | 0.000215   | 2.36     | 914.69             | 120.18             | 0.15         |
| North Main               | reach 1               | 126142                                   | 3225.00            | 24.02          | 35.37     | 27.81          | 35.44          | 0.000162   | 2.24     | 3007.54            | 2350.07            | 0.13         |
| North Main               | reach 1               | 126142                                   | 4273.00            | 24.02          | 36.20     | 26.52          | 36.23          | 0.000124   | 1.83     | 6474.45            | 4663.17            | 0.12         |
| North Main               | reach 1               | 126142                                   | 9224.00            | 24.02          | 37.38     | 31.20          | 37.41          | 0.000136   | 2.08     | 12726.59           | 5878.94            | 0.12         |
| 1. 47.34                 |                       | 7.18 (2.1.1.2.1                          |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 128000                                   | 2160.00            | 24.02          | 33.36     | 26.73          | 33.43          | 0.000176   | 2.17     | 993.24             | 126.44             | 0.14         |
| North Main               | reach 1               | 128000                                   | 3225.00            | 24.02          | 35.37     | 27.49          | 35.41          | 0.000136   | 1,88     | 3504.57            | 2117.90            | 0.12         |
| North Main               | reach 1               | 128000                                   | 4273.00            | 24.02          | 36.20     | 28.17          | 36,21          | 0.000060   | 1.30     | 8796.50            |                    | 0.08         |
| North Main               | reach 1               | 128000                                   | 9224.00            | 24.02          | 37.37     | 30.72          | 37.39          | 0.000088   | 1.67     | 15211.23           | 6906,66            | 0.10         |
| North Main               | reach 1               | 124278                                   | 2160.00            | 23.63          | 32.99     |                | 00.00          | 0.00000    |          |                    |                    |              |
| North Main               | reach 1               | 124276                                   | 3225.00            | 23.63          | 34.95     | 26.63<br>27.45 | 33,08<br>35.08 | 0.000230   | 2.46     | 878.30<br>1107.45  |                    | 0.16         |
| North Main               | reach 1               | 124276                                   | 4273.00            | 23.63          | 35.83     | 28.17          | 35.99          | 0.000260   | 3.35     | 1697.05            |                    |              |
| North Main               | reach 1               | 124276                                   | 9224.00            | 23.63          | 36.39     | 30.90          | 36.97          | 0.000316   | 6.44     | 1697.05<br>2288.74 |                    |              |
| 3.72.739                 | 3 6 200 2 2 2         | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 |                    |                |           |                | 30.41          | 2.031107   | 0.44     | 2200.74            | 34, 9.79           | 0.35         |
| North Main               | reach 1               | 124185                                   | 2160.00            | 23.63          | 32.97     | 26.58          | 33.06          | 0.000225   | 2.44     | 884.61             | 112.62             | 0.15         |
| North Main               | reach 1               | 124185                                   | 3225.00            | 23.63          | 34.92     | 27.40          | 35.05          |            | 2.90     | 1110.76            |                    | 0.17         |
| North Main               | reach 1               | 124185                                   | 4273.00            | 23.63          | 35.86     | 28.11          | 35.95          | 0.000203   | 2.64     | 4051.20            |                    | 0.15         |
| North Main               | reach 1               | 124185                                   | 9224.00            | 23.63          | 38.68     | 30.85          | 36.78          | 0.000380   | 3.41     | 7867.72            |                    |              |
| F 4535                   | 2 Professor 2 Pr      | 45 41 160 41                             |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 124085                                   | 2160.00            | 23.63          | 32.95     | 26.61          | 33.05          | 0.000230   | 2.47     | 874.52             | 111.40             | 0.16         |
| North Main               | reach 1               | 124085                                   | 3225.00            | 23.63          | 34.89     | 27.43          | 35.02          | 0.000263   | 2.94     | 1096.59            |                    |              |
| North Main               | reach 1               | 124085                                   | 4273.00            | 23.63          | 35.86     | 28.15          | 35.93          |            | 2.52     | 4370.43            |                    |              |
| North Main               | reach 1               | 124065                                   | 9224.00            | 23.63          | 36.65     | 30.86          | 36.75          | 0.000353   | 3.42     | 8146.59            | 6179.51            | 0.20         |
| Marth Marin              |                       | 104000                                   |                    |                |           |                |                | <u> </u>   |          |                    |                    |              |
| North Main<br>North Main | reach 1               | 124000.<br>124000.                       | 2160.00            | 23.63          | 32.94     | 26,61          | 33.03          | 0.000227   | 2.42     | 890.81             | 116.47             | 0.15         |
| North Main               |                       | 124000.                                  | 3225.00            | 23.63          | 34.90     | 27.43          | 34.99          |            | 2.59     | 2107.24            |                    |              |
| North Main               | reach 1               | 124000.                                  | 4273.00<br>9224.00 | 23.63<br>23.63 | 35.86     | 28.16          | 35.91          | 0.000186   | 2.20     | 4694.59            |                    |              |
| - 1010) (MAN)            | ,000A) I              | 12700.                                   | 9224.00            | 23.63          | 36.63     | 30.87          | 36.71          | 0.000388   | 3.14     | 7950.00            | 6086.50            | 0.20         |
| North Main               | reach 1               | 122908                                   | 2160.00            | 23.63          | 32.69     | 26.51          | 32.78          | 0.000223   | 2.36     | 914.22             | 100 10             |              |
| North Main               | reach 1               | 122908                                   | 3225.00            | 23.63          | 34.61     | 27.31          | 34.73          |            | 2.78     | 1158.53            |                    |              |
| North Main               | reacty 1              | 122908                                   | 4273.00            | 23.63          | 35.45     | 28.00          | 35.63          |            | 3.36     | 1270.44            |                    |              |
| North Main               | reach 1               | 122908                                   | 9224.00            | 23.63          | 36.44     | 30.61          | 36.47          |            | 2.25     | 13336.49           |                    |              |
| CACH CLI MADELL          |                       |  |                    |                |           |                |                |            |          |                    | 3000.44            | V.10         |
| (World) Wildel           |                       |  | 1                  | 1              | ]         | 1              |                |            |          |                    |                    | l            |

Plan: P. 25% (Continued)
River Sta Q Total HEC-DAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl River Sta (cfa) (11) (ft) (ft) (fl) (fVft) (ft/s) (sq ft) (ft) North Main each 1 122857 3225.00 23 63 34 60 27.31 34.72 0.000249 2 79 1156.80 1885 42 0.17 Morth Mair anni 1 122857 4273.00 23 63 35 43 28.00 35.6 0.000335 3 37 1268 03 2782 16 0.19 North Main reach 1 122857 9224.00 23.63 36.42 30.61 36.45 0.000138 2.27 13262.13 6892.38 0.13 122.03 0.15 2160.00 23.45 32.50 26.32 32.56 0.000213 2.33 925.58 North Main wach t 122000 North Main 3225.00 23.45 34.39 27.10 34.51 0.000238 2.76 1244.51 584.92 0.16 reach t 122000 35.37 27.77 0.000114 6073.21 4800.98 0.11 North Main 122000 4273.00 23.45 35.4 2.01 9224.00 23.45 36.27 10937.85 6398.09 0.15 North Main reach 1 122000 30.34 36.3 0.000198 2.48 North Main reach 1. 120000. 2160.00 23,41 32.05 26.02 32.14 0.000229 2.38 908.55 122.83 0.15 1139.15 3225.00 33.89 26.80 0.000261 130.71 0.17 North Main neach 1 120000 23.41 34.01 2.83 34.85 35.03 4273.00 23.41 27.47 3.37 1267.33 137.94 0.20 120000 0.000345 North Main reach 1 35.92 2.17 10700.21 5479.48 0.13 North Mair reach 1 120000 23.41 30.05 0.000168 9224.00 35.98 North Main reach 1 118000. 2160.00 23.26 31.58 25.8 31.66 0.000257 2 48 872 31 121 53 0.16 North Mair reach 1 118000 3225.00 23.26 33.32 26.64 33.46 0.000293 2.95 1092.71 128.39 0.18 North Main reach 1 118000. 4273.00 23.26 34.08 27,32 34.28 0.000411 3.59 1190.63 134.52 0.21 35,29 0.000485 4125.37 North Main reach 1 118000. 9224.00 23.26 29.87 35.41 3.66 6286.86 0.23 2.54 25.79 856.81 126.06 0.17 North Main 116000 2180.00 23.27 31.01 31.11 0.000290 each 1 116000 3241.00 23.27 32.70 26,51 32.84 0.000323 3.01 1075.78 132.34 0.19 North Main each: North Main each 1 116000 4459.00 23.27 33.42 27 25 33 51 0.000334 2.87 3773.65 4127.66 0.19 North Main ach 1 116000 9225.00 23.27 34.67 29.58 34.71 0.000243 2.55 9933.90 5800.43 0.16 North Main 956.29 127.40 0.15 114000 2180.00 21.89 30.54 24,55 0.000206 2.28 3989.06 3196.98 0.15 North Main reach t 114000 3241.00 21.89 32.25 25.20 32.32 0.000204 2.26 each 114000 4459 00 21.89 33.10 25.99 33,13 0.000117 1.82 7330.25 5638.25 0.11 North Main ach 1 114000 9225.00 21 89 34 41 28 3 34.43 0.000089 1.72 15279.67 6455.02 0.10 North Mair 128.95 0.16 North Main 113338 21.88 30.39 24.6 30.47 0.000232 2.36 924.72 reach 1 2180.00 1933.92 0.17 North Main 113338 3241.00 21.88 32.02 25.34 32.15 0.000272 2.84 1141.41 reach 1 North Main 21.88 32.78 26.08 32.98 0.000398 3.58 1244.57 5080.87 0.21 reach 1 4459.00 9225.00 21.88 34.37 28.45 34.36 0.000060 1.31 18011.08 7121.93 0.08 North Main each 1 113338 24.55 0.000219 947.76 131.28 30.38 2.30 0.15 North Main reach 1 113284 2180.00 21.88 30.46 2.77 1168.09 1910.25 0.17 32.13 0.000259 North Main reach 1 113284 3241.00 21.88 32.01 25.27 North Main 11328 4459.00 32.7€ 0.000379 3.50 1272.50 5258.20 0.21 reach 1 21.88 26.01 32.95 North Mair 113284 9225.00 21.8 33.62 28.33 34.30 0.00124 6.62 1393.97 6471.77 0.36 reach North Main reach 1 112824 2180.00 22 02 30 17 24.84 30.28 0.000317 2.65 821.13 121.54 0.18 North Main reach 1 112624 3241.00 22.02 31.77 25.63 31.93 0.000368 3.17 1030.88 260.47 0.20 4577.75 North Main reach t 112824 4459 00 22.02 32.57 26.42 32.68 0.000377 3.03 3700.79 0.20 10381.81 0.17 33.72 28.91 33.76 0.000292 2.50 6504.D0 North Main each 1 112624 9225.00 22.02 North Main ach i 112820 Inline Wei North Mair each 1 112804 2180 00 20.05 30.16 22.82 30.23 0.000155 2.12 1029,71 123.64 0.13 349.59 0.15 North Main reach 1 112804 3241.00 20.05 31.76 23 62 31.87 0.000203 2.63 1246,68 24.44 4556.64 0.16 32.56 0.000247 2.69 3929.24 North Main each 1 112604 4459.00 20.05 32.65 33.71 27.00 33.75 0.000243 2.49 10574,19 6476.19 0.16 112604 20.05 North Main each 1 9225.00 North Main each 112000 2180.00 20.06 30.07 22.79 30.1 0.000156 2.12 1026 26 123 76 0.13 North Main reach 1 112000 3241.00 20.06 31,64 23 60 31.74 0.000223 2.62 1378.73 960.36 0.16 North Mair mach 1 112000 4459.00 20.06 32.45 24.40 32.50 0.000198 2.26 5140.93 4730.20 0.14 0.14 0.000183 11683.8 6337.92 North Main reach 1 112000 9225.00 20.06 33,59 26.96 33.62 2.23 North Main 110000. 2536.00 19.82 29.66 22.8 29.7€ 0.00022 2.53 1001.33 121.37 0.16 reach 1 North Main reach 1 110000 3783.00 19.82 31.15 23.73 31.24 0.000262 2.66 2321.17 1108.53 0.17 North Mali reach 1 110000 5288 00 19.82 31 89 24 67 31.99 0.000304 2.95 3215.34 1252.87 0.18 reach 1 7653.07 0.13 North Mair 110000 9904.00 19.82 33.27 27,03 33.29 0.000149 2.08 14170.52 122.87 0.15 2536.00 19.53 29.21 22.46 29.31 2.52 1007.74 North Main reach 1 108000 North Main 3783.00 19.53 30.83 23,35 30.88 0.000138 2.16 5067.97 4879.18 0.12 108000 reach 1 19.53 31.70 24.27 31.72 0.000083 1,71 9417.54 5147.36 0.10 North Mair 5288.00 North Main reach 1 108000 9904.00 19.53 33,12 26.60 33.13 0.000067 1.44 17522.64 6238.21 0.09 0.16 19.53 29.24 2.54 999.32 126.88 107667 29.14 0.000239 North Main reach 1 2536.00 19.53 30.65 30.81 0.000318 3.16 1198.46 137.56 0.19 107667 3783.00 North Mair raach 1 reach t 107667 52B8.00 19.53 31.39 31.64 0.000495 4.07 1309 85 171.46 0.24 North Main 32.33 26.60 33.00 0.001384 6.67 2201.47 4316.84 0.39 107687 19.5 North Main reach 1 each 1 0.000240 2.54 997.20 126.78 0.16 North Main 107600 2536 OC 19.53 29.12 29.22 3.16 1195.33 136.86 0.19 North Main reach 1 107600 3783.00 19.53 30.63 30.78 0.000321 4.08 1303.78 169.15 0.24 31.35 0.000500 North Main reach 1 107600 5288.00 19.53 31.61 32.16 26,60 0.001489 1634.99 2203.75 0.41 19.50 32.90 North Main reach 1 107600 9904.00 0.17 108000 2536,00 19.52 28 71 22 42 28 82 0.000259 2.64 962.14 122.25 North Main reach reach 1 106000 3783.00 19.52 30.01 23.28 30.18 0.000445 3.34 1132.02 151.62 0.22 North Mair 4262.40 5248.28 0.21 0.000452 2.95 North Main reach t 106000 5288 00 19.52 30.70 24.20 30.80 10871.54 8949.86 0.19 0.000357 26.50 31.66 2.82 North Mair reach 1 106000 9904.00 19.52 31.61 18.67 28.19 21.96 28.30 0.000261 2.64 960.26 122.50 0.17 North Main 104000 2536.00 22.83

18.67

3783.00

29.72

29.75

0.000109

1.67

5423 92

2728.63

0.11

North Main

reach 1

HEC\_DAS Plan: P.25% 3 (Continued)
River: Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.O. Slope Vel Chnl Flow Area. Top Width Froude # Chi (cls) (11) (ft) (ft) (ft/ft) (ft/a) (8g ft) (ft) North Main act 1 104000 18.67 30.37 23.74 30.39 0.000109 1.55 7853.96 3671.04 0.11 9904.00 North Main reach 1 104000 18.67 31.16 26.00 31.19 0.000164 2.02 10948 55 4164.67 0.13 North Main 102396 reach 1 2536.00 18.36 27.76 21.42 27.87 0.000272 940.54 2.70 120.12 0.17 North Main 102398 reach 1 3783.00 18.36 29.27 22.32 29.45 0.000356 3.36 1127.11 1663.33 0.20 North Main réach 1 102396 5288.00 18.36 30.06 23.28 30 14 0.000227 2.76 6722.52 10540.27 0.18 North Main each 1 9904.00 18.36 30.90 25.65 30.92 0.000167 2.30 16122.87 11400.00 0.14 North Main reach t 102314 2536 00 18.36 27.74 21.42 27.85 0.000274 2.70 937 76 120.02 0.17 North Main reach 1 102314 3783 00 18.36 29.24 22.32 29.42 0.000360 3.37 1123,24 1648,89 0.20 North Main reach 1 102314 5288.00 18.36 30.04 23.26 30.12 0.000237 2.82 8498.04 10189 24 0.16 North Mair ach 1 102314 9904.00 18.38 30.87 25.65 30,90 0.000174 2.34 15884.65 11400.00 0.14 North Main each t 102000 2536.00 18.36 27.67 21.21 27.77 0.000219 2.47 1025.90 126.77 0.15 North Main each 1 102000 3783.00 18.36 29.25 22.04 29.31 0.000171 2.19 4293.65 3858.49 0.14 5288.00 North Main mach 1 102000 18.36 30.02 22.91 30.05 0.000139 1.90 10003.10 10768.13 0.12 North Main each 1 102000 9904.00 16.36 25.10 30.86 0.000103 1.72 18837.14 10776.20 0.11 North Mai reach 1 100000 2536.00 18,35 27.14 21.29 27.25 0.000304 2.76 917.37 123,02 0.18 North Mair reach t 100000. 3783.00 18.35 28.62 22.15 28.60 0.000390 3.43 1104.45 129,16 0.21 North Main reach 1 100000 5288.00 18.35 29.18 23.06 29.48 0.000753 4.47 1253.28 726.38 0.28 North Main ach 1 100000 9904.00 18.35 30.33 25.35 30,45 0.000528 3.73 8992.16 10724.58 0.24 North Main reach:1 98000 2536.00 17.13 26.64 20.19 26.73 0.000219 2.45 1114.88 692.02 0.15 North Main reach 1 98000 3783.00 17.13 28.14 21.02 28 20 0.000214 2.22 3336.73 1949.67 0.15 North Main each 1 98000 5288.00 17.13 28.64 21.89 28.69 0.000208 2.2B 5308.85 3193.00 0.15 North Main each 1 98000 9904.00 17.13 29.72 24.09 29.76 0.000228 2.53 10240,74 5182.89 0.16 North Mair 97100 reach t 2538 00 16 79 28.44 20.08 26.53 0.000230 2.43 1043.98 161.90 0.16 North Main reach ( 97100 3783.00 16.79 27.88 20.93 27.98 0.000261 2.73 2411.51 2274.99 0.17 North Main reach 1 97100 5288.00 16.79 28.41 21.81 28.48 0.000259 2.61 5080.37 4262.63 0.17 North Main ach 1 97100 9904.00 16.79 29,50 24.02 29.54 0.000252 2.46 11300.51 7074.04 0.18 North Mais reach 1 97053 2538.00 16.79 26.43 20.08 26.52 0.000231 2.43 1042.39 161 68 0.16 North Main reach 1 97052 3783.00 16.79 27.86 20.93 27.97 0.000282 2,74 2377.67 2250.42 0.17 North Mair reach 1 97052 5288.00 18.79 28 40 21.81 28.47 0.000267 2.61 5024.26 4228.98 0.17 North Main reach t 97052 9904.00 16.79 29.49 24.02 29.53 0.000259 2.42 11221.31 7045.55 0.16 North Mair reach 1 98000. 2536.00 16.79 19.81 26.17 26.27 0.000239 2.54 998.13 126,63 0.16 North Main reach 1 90000 3783.00 16.79 27.59 20.65 27,67 0.000296 2.52 3111.77 3102,32 0.17 North Main ach 1 98000 5288.00 16.79 28.32 21.54 28,33 0.000084 1.21 12115.32 7351 11 n ne North Main reach 1 96000 9904.00 16.79 29.41 29.40 23.79 0.000059 1.24 21273.71 9576.00 0.08 North Main reach t P4000. 2536.00 16.80 25.85 19.73 25.89 0 000134 1.88 1767.66 313,73 0.12 North Main reach 1 B4000. 3783.00 18.60 27.17 20.57 27.23 0.000159 2.22 2695.56 1778,22 0.13 North Main reach 1 94000 5288.00 16.80 28.08 3800.98 21.46 28.12 0.000171 2.26 5228.49 0.14 North Main reach 1 94000 9904.00 29,23 23.71 29.25 0.000113 1.74 16392.99 9122.12 0.11 North Main reach 1 92434 2538.00 16.79 25.50 19.51 25.61 0.000260 2.60 976.45 127.54 0.17 North Main 92434 reach 1 3783.00 16.79 26.68 20.32 26.85 0.000373 3.35 1132.90 191.91 0.20 North Main reach 1 92434 5288.00 18.79 27.45 21.18 27.70 0.000504 4.06 2011,54 2081.73 0.24 each 1 92434 9904.00 18.79 28.70 23.37 28.90 0.000548 4.51 6439.68 5027.74 0.25 North Main reach t 92378 2536.00 16.79 25.48 19.51 25.59 0.000262 2.60 974.46 127.48 0 17 North Mair reach 1 92376 3783.00 16 79 26.66 20.33 26.B3 0.000376 3.36 1128.67 181.39 0.20 North Ma reach 1 92376 5288,00 16.79 27.42 21.19 27.67 0.000516 4.10 1937.63 1996.18 0.24 North Mair reach 1 92376 9904.00 16.79 28.64 23.37 28.86 0.000587 6137.17 4.66 4883.15 0.26 North Mair anch 1 92000 2536.00 18.79 25.37 19.53 25.49 0.000284 2.70 939.75 123.39 0.17 North Main reach 1 92000 3783.00 16,79 26.49 20.35 26.68 0.000415 3.50 1088.48 230.60 0.21 North Main reach 1 92000 5288 00 16 79 27.17 21.24 27.45 0.000595 4.36 1721.87 1670.99 0.26 North Mair reach 1 9200G 9904.00 16,79 28.26 23.45 28.57 0.000920 5.31 4760.04 3922.24 0.32 North Main reach 1 91033 2536,00 16.48 25.08 19.61 25.19 0.000339 2.83 895 65 126 17 0.19 North Mai each 1 91033 3783.00 16.48 26.04 20.45 26.24 0.000498 3.66 1255.88 1536.32 0.23 North Main reach 1 91033 5288.00 18.48 26.63 21.34 26.86 0.000596 4.15 2582.24 2791.58 0.25 North Main reach t 91033 9904.00 16.48 27.47 23,57 27.72 0.000807 5.06 5555.45 4293.82 0.30 North Mair reach 1 91030 Inline Weir North Main reach 1 91000 2538.00 14.79 25.06 17.88 25.15 0.000198 1051.48 2.41 125.51 0.15 North Man 91000 3783.00 14.79 mach t 26.03 18.76 26.18 0.000306 1602.02 3.15 2143.70 0.18 North Main reach 1 91000 5288.00 14.79 26,63 19.70 26.79 3512.81 0.000363 3.53 4217.55 0.20 North Mair reach t 91000 9904.00 14.79 27.46 22.09 27.61 0.000451 4.08 B222.37 7000.24 0.23 North Main reach t

90000

90000

90000.

90000

88000

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North Mair

North Mair

North Mair

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North Main

reach 1

reach 1

reach 1

reach 1

reach 1

2536.00

3783.00

5288.00

9904.00

2536.00

3783.00

5288.00

14.79

14.79

14.79

14.79

14.78

14.78

14.78

24.90

25.89

26.48

27.20

24.58

25.68

26.28

17.62

18.46

19.35

21.62

17 67

18.53

19.43

24.97

25.95

26.53

27.25

24 65

25.71

26.30

0.000147

0.000151

0.000150

0.000281

0.000169

0.000089

0.000086

2.13

2.27

2.33

2.69

2.22

1.69

1.59

1763.43

4337.26

6929.65

11017.16

1881.28

6898.60

10420.65

922.88

3760.10

4954.12

6436.96

1502.81

5169.42

6552.87

0.13

0.13

0.13

0.17

0.14

0.10

HEC DAS Plan D 25% 3 (Continued)
Reach Reach River Sta | Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width | Frouds # Chi Flow Area (cfa) (ft) (ft) (fl/s) (ft) (ft) (ft/ft) (sq ft) (ft) North Main 88000 each t 0.000169 2.04 14125.6 0.13 7760.69 North Main 87169 2536.00 14.78 24.38 17.76 24.48 0.000232 2.54 998.26 1571.32 0.16 North Main mach i 87169 3783.00 14.78 25,38 18.64 25.58 0.000384 3.36 1124.35 5594 28 0.20 North Main reach 1 87169 5288.00 14.78 25.81 19.56 26.12 0.000617 4.49 1178.69 6357.74 0.26 9904.00 North Main reach 1 87169 14.78 26.66 21.88 28.69 0.000151 2.34 14300.64 7873.65 0.13 North Main 87084 2536.00 14.78 24.36 17.77 24.46 0.000234 2.55 995.72 1562.17 0.16 North Main reach 1 87084 3783.00 14.78 25.35 18.64 25.53 0.000368 3.38 5535,67 1120.18 0.20 North Main B7084 19.56 each 1 5288.00 14.78 25.75 26.07 4.51 0.26 North Main each 1 87084 9904.00 14.78 26,64 21.87 0.000155 26.67 2.37 14125.34 7833.97 0.13 North Main reach 1 88000 2536.00 14.31 24.18 17.28 24.24 0.000166 2.18 2027.68 2006.07 0.13 North Main 3783.00 14.31 18.14 reach 1 86000. 25.23 25.27 0.000129 1.86 5326.19 3859.34 0.12 5288.00 14.31 25.66 North Main 86000. 19.06 2.03 4818.58 reach 1 25.69 0.000146 7153.62 0.13 North Main reach 1 86000 9904.00 14.31 26,44 21.33 26.48 0.00019 2.41 11716.62 6811.58 0.15 North Main reach 1 84000 2578 00 13.56 23 82 16 44 23.91 0.000171 2.30 1119.50 127.10 0.14 North Main reach 1 84000. 3822.00 13,56 25.00 17.28 25.03 0.000102 1.90 5056.26 3050.88 0.11 North Main reach 1 84000. 5333.00 13,56 25.40 18.17 25.43 0.000115 1.96 8762.25 9323.48 0.11 13.56 2.06 North Main reach 1 84000. 10123.00 26.11 20.51 26.13 0.000144 15478.55 9605.45 0.12 2576.00 23.47 North Main reach 1 B2000 12.94 15.96 23,56 0.000177 2.36 1093.35 123.29 0.14 North Main 24.75 reach 1 82000 3822.00 12.94 16.84 24.80 0.000135 2.07 5016.31 4317.16 0.12 North Main teach 1 82000 5333.00 12.94 25.05 17.78 25.11 0.000226 2.51 8899.33 10717.01 0.16 North Main reach 1 82000. 10123.00 12.94 25.75 20.19 25.78 0.000226 2.28 14178.09 10798.23 0.15 North Main 81854 23.54 2576.00 12.94 23.47 15.85 0.13 0.00015 2.18 1182.81 136.67 North Main reach t 81854 3822.00 12.94 24.64 16.70 24.76 0.000234 2.84 1346.70 5203.00 0.16 North Main 12.94 17.58 81854 5333.00 25.01 25.08 0.000188 2.59 6976.0 11286.9 0.15 North Main reach 1 81854 10123.00 12.94 25.71 19.89 25.76 0.000179 2.60 14918.39 11348.36 0.14 81817 2576.00 North Main reach 1 12.94 23.46 15.85 23.53 0.000155 2.18 1182.00 136.84 0.13 North Main 3822.00 24.63 16.70 24.76 1345.40 reach 1 81817 12.94 0.0002342.84 5048.37 0.16 North Main 6885.66 11286.60 5333.00 12.94 17.60 25.08 0.000191 2.61 0.15 reach 1 81817 25.00 reach 1 81817 10123.00 12.94 25.70 19.89 25.74 0.000183 2.63 14747.4 11345.57 0.15 North Main North Main each 1 80000 2576.00 12.93 23.12 15.92 23.21 0.000198 2.44 1055.15 122.67 0,15 North Main reach 1 80000 3822 DO 12.93 24 19 16 80 24.31 0.000255 2 87 2874 02 4786.28 0.17 North Main reach 1 80000 5333.00 12.93 24.42 17.72 24.57 0.000420 3.47 4175.32 6493.56 0.21 North Main reach 1 80000. 10123.00 12.93 25.16 20.13 25.26 0.000409 3.55 10868.85 10718.85 0.21 reach 1 78000 2576.00 12.95 16.00 2.60 1074.36 586.67 North Main 22.66 22.76 0.000260 0,17 North Main reach 1 78000. 3822.00 12.95 23,59 16.89 23.70 0.000381 2.86 2753.20 3331.09 0.20 7440.94 12.95 17.84 0.000223 7121.55 0.15 North Main reach 1 78000 5333.00 23.90 23.94 2.19 2.50 North Main 20.29 24.59 10123.00 12.95 24.56 0.000260 12853.10 9307.81 0.16 reach 1 78000 2576.00 12,94 15.84 135.38 North Main reach 1 78000. 22.14 22.25 0.000255 2.63 979.33 0.16 0.000245 5866.77 2.49 4409.54 North Main reach 1 76000 3822.00 12.94 23.01 16.69 23.08 0.16 North Main 78000. 5333.00 12.94 23.27 17.60 23.34 0.000310 2.78 5993.63 6512.10 0.18 reach 1 North Main reach 1 76000. 10123.00 12.94 23.90 19.96 0.00038 10602.97 0.20 North Maio mach 1 74000 2578.00 11.86 21.65 15.00 21.75 0.000245 2 60 994 14 128.50 0.16 North Main reach 1 74000. 3822.00 11.86 22.53 15.90 22.60 0.000238 2.44 4744.61 6866.55 0.16 74000 5333.00 16.85 0.000184 8994.39 9596.74 North Main reach 1 11.86 22.83 22.86 2.20 0.14 North Main 13446.80 19.27 23.33 0.000254 2.65 9607.12 0.17 reach 1 74000. 10123.00 11.86 23.29 North Main reach 1 72000 2576.00 10.58 21.23 13.76 21.31 0.00019 2 29 1127 22 146 38 0.15 North Main reach 1 72000 3822 00 10.58 22.03 14.65 22.11 0.000239 2.46 4295.28 8009 64 0.16 North Main reach 1 72000. 5333.00 10.58 22.41 15.58 22.46 0.000217 2.38 7315.85 B014.13 0.15 10762.50 North Main reach t 72000. 10123.00 10.58 23.05 17.94 23.06 0.00008 1.51 20406.07 0.09 394.04 70000 2576.00 10.48 20.83 13.51 20.92 0.000192 1081.67 0.14 North Main reach t 21.47 21.58 0.000288 2.81 3201.54 4939.75 0.18 North Main reach 1 70000 3822.00 10.48 14.40 21.79 North Main 5333.00 10,48 15.34 21.90 0.000389 3.08 4973 53 6109.18 0.20 reach 1 70000. North Main each 1 70000. 10123.00 10.48 22.74 17.78 22.79 0.000264 2.71 11430.07 6862.81 0.17 3278.80 North Main reach 1 69780 2576.00 10.48 20.80 13.41 20.88 0.000166 2.21 1166.60 0,13 21.35 21.50 0.000303 3.07 1244.22 7103.64 0.18 North Main reach 1 69760 3822.00 10.48 14.25 North Main 5333.00 10.48 21.80 0.000093 8415.91 reach 1 89780 North Main 0.000083 1.72 0.10 reach 1 69760 10123.00 10.48 22.74 22.75 19107.21 8941.59 North Mair reach I 69693 2578 00 10.48 20.79 13.41 20.87 0.000166 2.21 1165.01 3257.49 0.13 North Main reach 1 69693 3822.00 10.48 21.34 14.25 21,49 0.000304 3.08 1242,60 7069.03 0.18 1.75 8402.97 North Mair reach 1 69693 5333.00 10.48 21.79 15.13 21.82 0.000094 10771.21 0.10 1.72 19056.54 8940.28 0.10 69693 10123.00 10.48 22.73 17.46 22.75 0.000083 North Main reach 1 North Main 68373 20.73 20.74 0.000043 1.00 8956.29 7245.63 0.07 reach 1 2850.00 10.48 13.65 North Mair 88373 4215.00 10.48 21.35 14.52 21.36 0.000028 0.85 16010.77 10764 10 0.05 North Mair reach 1 68373 5778.00 10.48 21.73 15.38 21.74 0.000029 0.88 20106.46 10779.93 0.06 North Mair reach 1 68373 11383.00 1D.48 22.66 17.85 22.67 0.000034 1.02 30156,39 10815.47 0.06 North Main 67000 2850.00 10.28 20.61 13.52 20.64 0.000101 1.75 5334.78 6337.62 0.10 reach 1

HEC DAS Plan D 25% 3 (Continued)
River Reach River Q Total Min Ch FI Crit W.S. E.G. Elev W.S. Elev E.G. Slope Vel Chnf Flow Area Top Width Froude # Chf (ft) (ff) (ft) (fl/ft) North Main each 1 (ff) 67000 4215.00 (fVa) (fi pe) (ft) 10.28 21.27 14.45 North Mair 21.28 reach 1 0.000087 67000 5778 00 10812.77 9384 35 10.28 0.08 21 68 15 30 North Mair reach 1 21.67 0.000066 67000 1.26 14434.16 11383 00 9431 55 10.28 0.08 22.59 18.12 22.60 0.000087 1.31 23260.28 9458.70 North Main 0.08 each 1 66000 2850.00 10.28 20,43 13.68 North Main 20.50 reach 1 0.000185 68000 2.29 3250 77 4215.00 5129.26 10.28 21.19 0 14 14.64 North Ma 21.21 0.000099 reach 1 1.55 66000 5778.00 9117 84 8048.68 10.28 21.58 15.60 0.10 North Main 21.59 0.000095 1.42 66000 8087.50 11383.00 12261.79 10.28 22.52 D.10 18.39 22.53 0.000093 1.45 19855.80 8109.24 0.10 North Main reach t 65430 2850 00 10.28 20.23 13.64 North Mair 20.36 reach 1 65430 0.000299 2 89 986.55 4215.00 4701.56 0.18 10.28 21.13 14.60 North Mair reach t 65490 0.000094 1.69 9587.19 5778.00 10.28 9380.59 0.10 North Main 21.53 15.56 21.54 0.000096 88430 1.51 13511.23 11383.00 10488.61 10.28 22.47 0.10 18.36 22.48 0.000074 1.48 24351 04 11800.00 0.09 reach 1 North Main 65374 2850.00 10.28 20.21 13 64 North Mair 20.34 reach 1 85374 0.000301 2.90 984.38 4215.00 4676 64 10.28 0.1B 21.13 14.60 21.15 North Main reach 1 0.000095 1.71 86374 9531.93 5778.00 10.28 9343.42 0.10 21.52 15.56 North Main 21.54 0.000090 reach 1 65374 1.55 13448.61 11383.00 10469.87 10.28 0.10 22.47 18.38 22.48 0.000074 1 49 24297,30 11800.00 0.09 Month Mair reach 1 64000 2850.00 10.18 19.79 13.29 North Mair reach 64000. 19.91 0.000310 2.73 4215.00 1044.97 148.42 10.18 0.18 20 98 14.18 North Main mach 1 64000 20.99 0.000144 1.85 6391.61 5778 OC 4997.31 10.18 0.12 21.43 15.08 21.44 North Mair mach 1 0.000052 1.15 64000. 16511.52 11383.00 10,18 10391.82 0.07 22.39 17.67 22.39 0.000063 1.23 27215.07 11838.8 0.08 North Mair reach t 62000 2850.00 10.03 19.02 13.20 North Mair 19.15 0.000451 reach 1 2.99 62000 951.67 4215.00 153.11 10.03 20.72 0.21 14.12 0.000106 North Mair reach t 20.74 1.59 62000 5778.00 6920.97 4918.05 10.03 0.10 21 28 15.03 North Main each t 21.30 0.000098 1.59 10147.36 62000. 11383.00 6539.75 10.03 0.10 22.22 17.65 22.23 0.000128 1.93 16966.25 7678.75 0.12 North Main reach 1 60000 2850.00 9.59 18.13 12.76 18.29 North Main 0.000414 reach 1 80000 3.20 889 53 4215.00 119.96 9.59 0.21 20.24 13.65 North Mair 20.37 reach 1 0.000402 80000 3.08 2883.60 5778.00 4504.72 9.59 20.94 0.20 North Mai each 1 21 00 0.000253 2.49 60000 11383.00 7537.57 8621.92 0.16 9.59 21.90 17.17 21.93 0.000187 2.26 16551.31 10162,23 0.14 North Mair reach 1 58000 2850 00 9.33 17.00 North Main 12.78 17.22 58000 0.000700 746.18 reach 1 3 82 115.66 4215.00 9.33 19.07 0.26 13.69 19.35 North Mair 0.000848 reach 1 58000 5778.00 4.24 993,40 123.38 9.33 0.28 20.66 14.58 North Mair 20 68 0.000108 ach 1 58000 1.79 12478 28 10820.70 11383.00 9.33 0.11 21.69 17.26 0.000076 21.69 1.43 23866.50 11221.57 0.09 North Main reach 1 57448 2850.00 9.38 16.58 12.75 North Main reach 1 18.81 0.000826 57448 3.96 719.14 4215.00 9.38 120 17 0.29 18.69 13.65 18.97 North Main reach t 0.000707 4.28 57448 985.49 5778.00 9.38 130,08 0.27 20,41 14.54 20.56 North Main 0.000399 reach 1 57448 3.55 4285.61 11383.00 9.38 5116.78 0.21 21.55 17.14 21.62 0.000286 3.18 12316.79 9004.55 0.18 North Main reach 1 57404 2850.00 9.38 16.52 12.74 North Main 16.77 0.000844 reach 1 3.99 57404 4215,00 9.38 714.18 119.98 0.29 18 66 13.65 North Mai reach 1 18.94 0.000717 4.30 57404 5778.00 9.38 981.01 129.92 0.28 20.39 14.54 20.54 North Mair ach 1 0.000414 3.61 57404 4153.63 11383.00 5015.88 9.38 0.21 21.53 17.14 21.60 0.000294 3.22 12151.08 8941.29 0.18 North Main reach 1 58867 2850,00 9 80 16.13 12.52 North Main 16 33 0.000744 reach 1 56867 3.63 785 B4 4215.00 139.19 9.80 18.36 13.30 0.27 North Mair 18.58 0.000574 reach 1 149.59 56887 3.81 5778.00 1107.44 9.80 19 98 14.08 0.25 North Main 20.26 0.000598 reach 1 4.26 58887 11383.00 9.80 1356.97 158.80 0.26 21.20 16.40 21.38 0.000567 4.26 6119.38 2968.23 0.25 North Main reach 1 Inline Wei North Mair each 1 56857 2850.00 7.31 16,12 10.12 North Main 18 23 0.000266 reach 1 2.64 56857 4215.00 7.31 1080.77 141 52 0.17 18 35 10.94 18.49 North Mair 0.000265 2.99 56857 1407.54 5778.00 7.31 151.42 0.17 19.97 11.75 20.16 North Main 56857 0.000307 3.48 reach \$ 1659.43 11383.00 158.65 0.19 7.31 21.19 14.15 21.36 0.000377 4.06 6395.32 2937.28 0.21 North Main reach 1 56000 2850.00 6.74 15.92 9.56 16.01 0.000222 North Main 2.49 reach 1 58000 1143 18 141.65 4215.00 0.15 6.74 18.15 10.34 North Mair 18.27 0.000228 2.87 reach 1 56000 5778.00 1485.83 231.26 8.74 19.75 0,18 11.16 19.91 North Main 0.000254 each 1 3.27 58000 11383.00 6.74 2038.02 394.65 0.17 21.01 13.51 21.09 0.000227 3.05 8290.17 2773.46 0.16 North Main reach 1 54000 2850.00 6.00 15.53 North Main 8.77 15.61 0.000182 reach 1 54000 2.31 1232.74 4215.00 147.02 6.00 0.14 17.71 9.54 17.83 North Mair 0.000216 reach 1 54000 2.69 1565.86 5778.00 167.92 6.00 19.23 0.16 10.31 19,38 0.00028 North Main 3.15 reach 1 54000 11383.00 1834.16 190.71 6.00 0.18 20.69 12.63 20.73 0.000137 2.36 12389.47 4557.34 0.13 North Main reach 1 52276 2856.00 5.83 15.21 8.51 15.29 0.000188 North Main reach 1 2.31 52276 1235,29 151.41 4210.00 5.83 0.14 17.34 9.28 17.45 0.000220 North Main reach 1 52275 2.67 1577.64 175.42 5767.00 5.83 0.16 18.71 10.07 18.86 0.000315 North Main reach 1 52275 10840.00 3.14 1837 81 210.07 5.83 0.19 20.41 12.19 20.46 0.000185 2.53 13839 80 10331.81 0.15 North Mair reach: 1 51585 2856.00 5.69 15.03 8.64 15.14 North Mair 0.000257 reach 1 1074.91 51585 4210.00 134,91 0.17 17.13 9.48 17.28 North Main reach 1 0.000273 3.08 51585 1368.10 143.42 5767 00 5.69 0.18 18.40 10.35 18.62 0.000393 1561.59 North Main reach 1 3 69 51585 162.67 10840.00 5.69 0.21 20.28 12.67 20.35 0.000202 2.96 12785.31 9108.39 0.15 North Main reach 1 51510 2856.00 5.69 15.01 8.64 15.12 North Mair 0.000256 2.66 51519 1072.53 134 83 4210.00 0.17 5.69 17.11 9.48 17.26 0.000274 3.08 1365,43 143.37

Plan: P 25% 3.(Cantinued) Réach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chini Flow Area Top Width Froude # Chi (ft ps) (cls) **(ft) (ft)** (ft) (R) (ft/ft) (fVs) (ft) North Main reach 1 51519 5767.00 5.69 18.38 10.35 18.59 0.000397 North Main 51519 10840.00 20,26 12.67 0.000206 12647.11 each 5.69 20.34 2.98 9052.08 0.16 North Main reach 1 50000. 2856.00 5.58 14.65 8.38 14.74 0.000232 2.49 1147.87 148.56 0.16 16,68 9.17 16.81 North Main reach 1 50000. 4210.00 5.58 0.000313 2.84 1484.62 197.83 0.16 North Ma 5.58 18.15 9,97 50000 5767.00 18.20 0.000152 2.18 4678.79 1427.95 0.13 50000 10840.00 5.58 20,16 12.16 20.18 0.000056 18759.63 5872.55 0.08 1.48 North Main 4800C 2856.00 4 89 14.22 7.67 14.30 0.000209 2.32 182.74 1229.68 D. 15 North Main reach 1 48000. 4210.00 4.89 16,12 8.43 16.23 0.000264 2.67 1579.35 202.53 0.17 North Main reach 1 48000 5767 00 4 89 17 84 9.21 17.90 0.000145 2 19 4013 72 921 21 0.13 11.30 North Main reach 1 48000. 10840.00 4.89 20.02 20.05 0.000077 1.80 18749.13 8867.87 0.10 2856.00 4.94 13.99 7.9 14.1 0.000290 139.14 North Mair reach 1 47232 2.73 1046.93 0.18 15,84 8.83 16.00 North Mair reach 47232 4210.00 0.000327 3.21 1313.13 149,78 0.19 North Main 47232 5767.00 4.94 17.49 9 67 17 70 0.000402 3.66 1574 81 171.27 0.21 reach North Main reach 1 47232 10840.00 4.94 19.93 11.98 19.97 0.000141 2.27 13461.90 6173.60 0.13 7.76 13.66 13.77 175.62 North Main each i 46000 2856.00 4.90 0.000261 2.58 1182.24 0.17 North Main 46000. 15.49 8.56 reach 1 4210.00 4.90 15.62 0.000273 2.94 1754.78 601.93 0.17 5767.00 17.19 9.39 17.30 0.000226 B11,70 North Mair 4800G 4.90 2.91 3010.68 0.16 4600G. 10840.00 4.90 19.83 11.64 19.85 0.000066 18693.98 7787,86 0.09 1.66 13.14 0.000260 147.26 North Main reach 1 44000 2856.00 4.68 7.3 13.24 2.58 1107.34 0.17 15.05 154.07 North Main reach 1 44000 4210.00 4.68 14.90 8.08 0.000295 3.07 1372.30 0.18 North Main 4.68 16.52 8.85 16.71 180.39 0.21 reach 1 44000 5767.00 0.000381 3.53 1635.65 North Main 44000. reach 1 10840.00 19.46 10.97 19.59 5551.00 2003.75 0.18 North Main ach t 43141 2856 00 4.65 12.92 7.27 13 02 0.000267 2 57 1110 48 151 77 0 17 North Main reach 1 43141 4210.00 4.68 14.64 8.01 14.79 0.000301 3.05 1379.05 158.81 0.18 16.21 8.77 0.000340 325,71 North Main reach 1 43141 5767.00 4.68 16.40 3.53 1663.06 0.20 North Main 4.68 10.83 6259.89 43141 10840.00 19.40 19.44 0.000140 2.26 12661.30 0.13 North Main reach t 42941 2856.00 4.24 12.88 7.07 12.97 0.00023E 2 40 1190 73 166 05 0.16 North Mair 42041 4210 00 4 24 14 60 7.80 14 72 0.000265 2 84 1483 38 174 31 0 17 North Main reach 1 42941 5767.00 4.24 15,16 8.54 16.33 0.000295 3.27 1785.67 319.84 0.18 North Main reach 1 42941 10840.00 4.24 19.35 10.57 19.41 0,000261 2.47 9813.11 6199.40 0.17 North Main Inline Weir 42938 reach 1 North Main reach 1 42932 2856.00 3 60 12 88 6.09 12.94 0.000146 2.04 1397.61 172.39 0.13 North Mair reach 1 42932 4210 00 3 60 14 59 8.79 14.69 0.000175 2.48 1699.24 179.03 0.14 North Main reach 1 42932 5767.00 3.60 16.15 7.51 16,28 0.000206 2.91 2008.33 308.83 0.16 0.000228 6147.82 North Main reach 1 42932 10840.00 3.60 19.34 9.48 19.40 2.51 9726,34 0.16 2856.00 3.60 12.84 5.57 12.88 0.000081 1.58 1833.45 217.52 0.09 North Mair 42366 reach 1 4210.00 3.60 14.55 6.14 14.60 0.000098 1.91 2209.10 223.52 0.11 North Main reach 1 North Main 42366 5767.00 3.60 16.10 6.73 16 18 0.000116 2 25 2560 23 227.36 0.12 reach 1 North Main each 1 42366 10840,00 3.60 19.27 8.36 19.34 0.000109 2.47 10068.80 5540.16 0.12 42313 2856.00 5.57 12.87 0.000081 1.56 1831.34 217.48 0.09 North Main 3.60 12.83 reach 1 4210,00 3.60 14.54 6.14 14,59 0.000098 1.91 2206.46 223.47 0.11 North Main reach 1 42313 16.09 6.73 16.17 0.000116 2.26 2557.07 227.33 0.12 North Main 42313 5767.00 3.60 North Main reach 1 42313 10840.00 3,60 19.26 8.35 19.34 0.000109 2.48 10035.17 5522.97 0.12 2856.00 1.49 1910.48 223.31 0.09 North Main reach 1 42000. 3.60 12.81 5.49 12.85 0.000073 6.04 14.56 0.000090 1.83 2294.32 229.28 0.10 14.51 North Main reach 1 42000. 4210.00 3.60 North Main 42000 5767.00 3.60 16.0€ 0.000107 2654.13 234.75 0.11 reach 1 North Main 10840.00 B. 15 19.30 0.000125 2.66 8687.14 6421.69 0.13 42000. 3.60 19.20 reach 1 0.000070 1.47 1943.61 225.86 0.09 North Main reach 1 40000 2856.00 3,15 12.67 5.14 12.70 1.81 2323.21 231.32 0.10 4210.00 14.38 0.000086 North Main reach 1 40000. 3.15 14.32 5.70 2.15 2678.72 235.94 0.11 15.85 15.92 0.000104 5767.00 6.28 North Main reach t 40000 3.15 2692.45 0.15 10840.00 3.15 18.85 7.86 18.99 0.000170 3.13 4391.19 North Main 40000 ech 1 38000 2856.00 3.14 12.52 5.06 12.55 0.000071 1.48 1934.94 225.46 0.09 North Mair reach 1 reach 1 North Main 38000 4210.00 3.14 14.14 5.61 14,19 0.000089 1.83 2306.06 232.02 0.10 2656.48 237.23 0.11 0.000108 2.17 North Main reach 1 38000 5767.00 3.14 15.63 6.19 15.71 246.27 0.16 7.76 18.64 0.000188 3.24 3343.06 North Main reach 1 38000. 10840.00 3.14 18.47 36000 3.15 12.35 5.10 12.39 0.000080 1.55 1837.77 217 08 0.09 North Main reach 1 North Main 4210.00 3.15 13.94 5.67 14.00 0.000101 1 93 2185.84 222.65 0.11 36000 North Main reach 1 36000 5767.00 3,15 15.39 6.25 15.47 0.000124 2.30 2511.85 227.82 0.12 North Main reach 1 36000 10840.00 3,15 18.04 7.85 18.23 0.000223 3.46 3129.20 237.31 0.17 220.20 0.10 12.23 0.00009 1.61 1771.1 3.16 12.19 5.20 North Main 34000. 2856.00 reach 1 0.000115 13.78 1.99 2112.58 227.11 0.12 34000 4210.00 3.16 13.72 5.78 North Main reach 1 34000 5767.00 3.16 15.12 6.38 15.20 0.000139 2.37 2433.88 231.83 0.13 North Mair reach 1 North Mair 34000 10840.00 3.16 17,54 8.01 17.75 0.000256 3.61 3006.62 240.13 0.18 1726.14 218.58 0.10 0.000097 1.65 North Main reach 1 32548 2856.00 3.16 12.05 5.27 12.09 221.48 0.000123 2.05 0.12 3.16 32548 4210.D0 13.54 5,87 North Main reach 1 0.000150 2.45 2356.64 225.98 0.13 6,46 14.99 North Mair 32548 5767.00 14.90 reach 1

| HEC_DAS<br>Fliver        | Plan: D 25%<br>Reach                       | 3 (Contin     | Q Total            | Min Ch El    | W.S. Elev    | Crit W.S.    | E.G. Elev      | E.G. Slope                            | Vel Chnl    | Flow Area          | Top Width        | Froude # Chl   |
|--------------------------|--|---------------|--------------------|--------------|--------------|--------------|----------------|---------------------------------------|-------------|--------------------|------------------|----------------|
|                          | 11.15 12.40                                |               | (cfs)              | (ft)         | (ft)         | (ft)         | (ft)           | (ft/ft)                               | (ft/s)      | (eq ft)            | (ft)             | 2 5680 30 LV 3 |
| North Main               | reach 1                                    | 32548         | 10840.00           | 3.16         | 17.13        | 8.09         | 17.35          | 0.000289                              | 3.78        | 2888.09            | 233.36           | 0,19           |
| Marth Abele              |  |               |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main<br>North Main | reach 1                                    | 32504         | 2858.00            | 3.16         | 12.05        | 5.27         | 12.09          | 0.000097                              | 1.66        | 1725.20            | 216.55           |                |
| North Main               | reach 1                                    |               | 4210.00            | 3.16         | 13.54        | 5.87         | 13.60          | 0.000123                              | 2.05        | 2051.07            | 221.46           |                |
| North Main               | reach 1                                    | 32504         | 5767.00            | 3.16         | 14.89        | 6.46         | 14.99          | 0.000150                              | 2.45        | 2355.12            | 225.96           |                |
| NOTUS MILITI             | reach/1                                    | 32504         | 10840.00           | 3.16         | 17.11        | 8.09         | 17.34          | 0.000290                              | 3.78        | 2864.99            | 233.32           | 0.19           |
| North Main               | reach 1                                    | 32000.        | 2856.00            | 3.16         | 12.00        | 5.16         | 12.04          | 0.000089                              | 1.59        | 1792,44            | 221.24           | 0.10           |
| North Main               | reach 1                                    | 32000.        | 4210.00            | 3.16         | 13.48        | 5.72         | 13,54          | 0.000113                              | 1.98        | 2122.93            | 228.56           | 0.11           |
| North Main               | reach 1                                    | 32000.        | 5767.00            | 3.16         | 14.83        | 6.29         | 14.91          | 0.000140                              | 2.37        | 2431.27            | 231.41           | 0.13           |
| North Main               | reach 1                                    | 32000.        | 10840.00           | 3.16         | 16.97        | 7.85         | 17.18          | 0.000304                              | 3.67        | 2953.08            | 260.94           | 0.19           |
| in the South Process     | e si dan bibli basiya g                    | 8 2 2 2 2 2 2 |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 30000.        | 2856.00            | 2.92         | 11.83        | 4.85         | 11.87          | 0.000081                              | 1.55        | 1845.03            | 222.78           | 0.09           |
| North Main               | reach t                                    | 30000.        | 4210.00            | 2.92         | 13.26        | 5.41         | 13.32          | 0.000107                              | 1.94        | 2165.81            | 227.21           | 0.11           |
| North Main               | reach 1                                    | 30000.        | 5767.00            | 2.92         | 14.55        | 5.97         | 14.64          | 0.000134                              | 2.34        | 2482.07            | 231.23           | 0.13           |
| North Main               | reach to                                   | 30000         | 10840.00           | 2.92         | 16.43        | 7.53         | 16.61          | 0.000259                              | 3.56        | 4400.49            | 2825.21          | 0.18           |
| . Personal               | Brusse Williams                            |               |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 29585         | 3102.00            | 2.90         | 11.78        | 5.02         | 11.83          | 0.000108                              | 1.76        | 1759.30            | 216.39           | 0.11           |
| North Main               | reach 1                                    | 29585         | 4262.00            | 2.90         | 13.20        | 5.5 <b>1</b> | 13.27          | 0.000123                              | 2.08        | 2070.65            | 221.65           | 0.12           |
| North Main               | reach t                                    | 29585         | 5805.00            | 2.90         | 14.48        | 6.09         | 14.58          | 0.000153                              | 2.48        | 2357.05            | 226.38           | 0.13           |
| North Main               | reach 1                                    | 29585         | 10731.00           | 2.90         | 18.28        | 7.53         | 16,49          | 0.000320                              | 3.88        | 2764.14            | 4872.47          | 0.20           |
| North Main               | reach 1                                    | 29523         | 3102.00            | 2.90         | 11.78        | 5.02         | 11.82          | 0.000108                              | 1.76        | 1757.82            | 046.07           |                |
| North Main               | reach 1                                    | 29523         | 4262.00            | 2.90         | 13.20        | 5.02         | 13.28          |                                       | 2,08        | 2068.93            | 216.37           |                |
| North Main               | reach 1                                    | 29523         | 5805.00            | 2.90         | 14.47        | 6.09         | 14,57          | 0.000123                              | 2.47        | 2068.93            | 221.62<br>226.35 |                |
| North Main               | reach 1                                    | 29523         | 10731.00           | 2.90         | 16.24        | 7.64         | 18.47          | 0.000133                              | 3.89        | 2759.28            | 4667.86          |                |
|                          |  |               | 3.2                |              |              | ,,,,,,,      | 10.47          | 5.000321                              | 3.09        | 2133.20            | 4001.00          | 0.20           |
| North Main               | reach 1                                    | 28000.        | 3102.00            | 2.90         | 11.61        | 5.03         | 11.66          | 0.000109                              | 1.75        | 1773.74            | 223.04           | 0.11           |
| North Main               | reach 1                                    | 28000.        | 4262.00            | 2.90         | 13.01        | 5.52         | 13.08          |                                       | 2.04        | 2088.87            | 227.50           |                |
| North Main               | reach t                                    | 28000.        | 5805.00            | 2.90         | 14.24        | 6.09         | 14.33          |                                       | 2.45        | 2371.23            | 231.42           |                |
| North Main               | reach 1                                    | 28000.        | 10731.00           | 2.90         | 15.98        | 7.52         | 16.07          |                                       | 2.88        | 8056.15            | 3646.90          |                |
| 1.5                      | and the second                             | . y (5 ) (4   |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 26000         | 3102.00            | 2.90         | 11.37        | 5.04         | 11.42          |                                       | 1,83        | 1691.15            | 219.82           | 0.12           |
| North Main               | reach 1                                    | 26000.        | 4262.00            | 2.90         | 12.74        | 5.53         | 12.81          | 0.000141                              | 2.14        | 1995.44            | 225.09           | 0.13           |
| North Main               | reach 1                                    | 26000.        | 5805.00            | 2.90         | 13.93        | 6.11         | 14.02          |                                       | 2.47        | 2756.88            | 685.89           |                |
| North Main               | reach 1                                    | 28000.        | 10731.00           | 2.90         | 15,48        | 7.67         | 15.61          | 0.000309                              | 3.34        | 6031,40            | 4592.12          | 0.19           |
| North Main               | reach 1                                    | 24000         | 3102.00            | 2.90         | 11.11        | 4.93         | 11.16          | 0.000126                              | 1 92        | 1608.00            | 700 05           |                |
| North Main               | reach 1                                    | 24000.        | 4262.00            | 2.90         | 12.45        | 5.40         | 12.51          | 0.000128                              | 1.83        | 1698.92            | 222.65           |                |
| North Main               | reach 1                                    | 24000.        | 5805.00            | 2.90         | 13.63        | 5.95         | 13.70          |                                       | 2.18        | 2432.95<br>4242.62 | 1099.24          |                |
| North Main               | reach 1                                    | 24000         | 10731.00           | 2.90         | 15.40        | 7.45         | 15.41          | 0.000147                              | 1.12        | 23300.99           |                  |                |
| min Same in              | 10 0 may 42 m                              |               |                    |              |              |              | -              |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 22000.        | 3102.00            | 2.90         | 10,84        | 4.92         | 10.89          | 0.000137                              | 1.87        | 1858.08            | 222.69           | 0.12           |
| North Main               | reach 1                                    | 22000.        | 4262.00            | 2.90         | 12,14        | 5.38         | 12.21          | 0.000154                              | 2.19        | 1956.72            | 238.65           | 0.13           |
| North Main               | reach 1                                    | 22000         | 5805.00            | 2.90         | 13.25        | 5.92         | 13.35          | 0.000194                              | 2.63        | 2237.11            | 316.52           | 0.15           |
| North Main               | reach 1                                    | 22000.        | 10731.00           | 2,90         | 15.02        | 7.41         | 15.23          | 0.000345                              | 3.86        | 3674.17            | 1384.99          | 0.20           |
|                          | 7 7 10 10 10 10 10 10 10 10 10 10 10 10 10 |               |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 20000.        | 3102.00<br>4262.00 | 2.23         | 10.56        | 4.53         | 10.61          | 0.000144                              | 1.93        | 1609.98            | 215,15           |                |
| North Main               | reach 1                                    | 20000.        | 5805.00            | 2.23         | 11.81        | 5.01<br>5.58 | 11.89          |                                       | 2.26        | 1883.24            | 219.94           |                |
| North Main               | reach 1                                    | 20000.        | 10731.00           | 2.23         | 12.82        | 7.12         | 12.94<br>14.40 |                                       |             | 2107.98            | 223.81           |                |
| 14OLGI MILIT             | TORAL I                                    | 2000          | 10/31.00           | 2.23         | 14.09        | 7.12         | 14.40          | 0.000302                              | 4.48        | 2393.31            | 228.62           | 0.24           |
| North Main               | reach 1                                    | 19889         | 3102.00            | 2.23         | 10.54        | 4.62         | 10.60          | 0.000157                              | 1,99        | 1561.04            | 212.53           | 0.13           |
| North Main               | reach 1                                    | 19889         | 4262.00            | 2.23         | 11.79        | 5.13         | 11.88          |                                       | 2.33        | 1830.67            | 217.78           |                |
| North Main               | reach 1                                    | 19889         | 5805.00            | 2.23         | 12.80        | 5.71         | 12.92          |                                       | 2.83        | 2051.80            | <u> </u>         | <del>,</del>   |
| North Main               | reach 1                                    | 19889         | 10731.00           | 2.23         | 14.01        | 7.29         | 14.34          | 0.000545                              | 4.62        |                    | 425.41           |                |
| 10,111                   | and the complete to be                     |               |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 19835         | 3102.00            |              | 10.53        |              |                |                                       | 1.99        | 1559.19            | 212.49           | 0.13           |
| North Main               | reach 1                                    | 19835         | 4262.00            |              | -            |              |                |                                       | 2.33        | 1828.47            | 217.74           | 0.14           |
| North Main               | reach 1                                    | 19835         | 5805.00            |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 19835         | 10731.00           | 2.23         | 13.98        | 7.29         | 14.31          | 0.000550                              | 4.63        | 2338.14            | 413.50           | 0.25           |
| March Marin              |  | 48000         | 3102.00            | 2.22         | 10.23        | 4.50         | 40.00          |                                       |             | 1507.40            |                  |                |
| North Main               | reach 1                                    | 18000.        | 4262.00            |              |              |              |                |                                       |             | 1527.43            |                  | <del></del>    |
| North Main               | reach 1                                    | 18000.        | 5805.00            |              |              |              |                |                                       |             | 1785.44            |                  |                |
| North Main               | reach 1                                    | 18000.        | 10731.00           |              |              |              | 13.24          |                                       |             | 2250.35<br>4409.70 |                  |                |
| 1,                       | 131 Nov. 4                                 |               |                    |              |              |              |                | -                                     |             | 1                  | -                |                |
| North Main               | reach 1                                    | 18000.        | 3102.00            | 2.22         | 9.87         | 4.30         | 9.93           | 0.000182                              | 2.09        | 1482.66            | 208.46           | B 0.14         |
| North Main               | reach 1                                    | 18000.        | 4262.00            |              |              | 4.79         |                | · · · · · · · · · · · · · · · · · · · |             | 1724.28            |                  |                |
| North Main               | reach 1                                    | 16000.        | 5805.00            | 2.22         | 12.18        | 5.37         | 12.20          | 0.000063                              |             |                    |                  |                |
| North Main               | reach 1                                    | 10000         | 10731.00           | 2.22         | 12.70        | 6.93         | 12.72          | 0.000115                              |             |                    |                  |                |
|                          | 1. 2. 2. 2. 2. 2.                          | 1             |                    |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 3102.00            |              |              |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 4262.00            |              | <u> </u>     |              |                | <del></del>                           |             |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 5805.00            | <del></del>  | +            | <del></del>  | <del></del>    |                                       | +           |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 10731.00           | 2.03         | 12.46        | 6.63         | 12.48          | 0.000125                              | 1.99        | 14819,79           | 6924.5           | 2 0.12         |
|                          | 1.0.                                       |               |                    |              |              | -            | ļ              | <del></del>                           | -           |                    |                  |                |
| North Main               | reach 1                                    | 12000         | 3102.00            |              |              | +            |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 12000.        | 4262.00            |              |              | <del></del>  |                |                                       | <del></del> |                    |                  | +              |
| North Main               | reach 1                                    | 12000.        | 5805.00            |              |              |              |                |                                       |             |                    |                  | _              |
| North Main               | reach 1                                    | 12000.        | 10731.00           | 1.79         | 12.37        | 6.57         | 12.3           | 0.000028                              | 0.90        | 33767.20           | 13721.0          | 3 0.06         |
| Marth 41                 | paget 4                                    | *****         | 0011.00            | <del> </del> | <del> </del> | <del> </del> | ļ              |                                       |             | 10:0               | ,                |                |
| North Main               | reach 1                                    | 10000.        | 3241.00            | 1.80         | 8.58         | 3.99         | 8.6            | 0.000295                              | 2.46        | 1316.90            | 209.9            | 2 0.17         |

| River      | Reach   | Fliver Sta | Q Total  | Min Oh El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area | Top Width | Froude # Chi  |
|------------|---------|------------|----------|-----------|-----------|-----------|-----------|------------|----------|-----------|-----------|---------------|
|            |         |            | (cfs)    | (E)       | (ft)      | (ft)      | (ft)      | (R/ft)     | (ft/s)   | (sq ft)   | (ft)      | \$15 kg 2 400 |
| North Main | reach f | 10000.     | 4357.00  | 1.80      | 9.46      | 4.45      | 9.59      | 0.000352   | 2.90     | 1503.88   | 213.74    | 0.19          |
| North Main | reach 1 | 10000.     | 5816.00  | 1.80      | 10.45     | 4.99      | 10.63     | 0.000467   | 3.37     | 1724.56   | 240.80    | 0.22          |
| North Main | reach 1 | 10000.     | 10743.00 | 1.80      | 11.75     | 6.53      | 12.17     | 0.000995   | 5.23     | 2055.32   | 262.01    | 0.33          |
| North Main | reach 1 | 8000.      | 3291.00  | 1.73      | 7.80      | 3.99      | 7.93      | 0.000470   | 2.89     | 1138.93   | 202.36    | 0.21          |
| North Main | reach 1 | # B000     | 4457.00  | 1.73      | 8.50      | 4.48      | 8.69      | 0.000593   | 3.48     | 1281.11   | 204.75    | 0.25          |
| North Main | reach 1 | 8000.      | 5868.00  | 1.73      | 9.20      | 5.01      | 9.48      | 0.000734   | 4.12     | 1425.21   | 207.20    | 0.28          |
| North Main | reach 1 | 8000       | 10712.00 | 1.73      | 11.00     | 11.00     | 11.07     | 0.000296   | 2.99     | 10500.96  | 6877.30   | 0.18          |
| North Main | reach 1 | 8000.      | 3291.00  | 1.77      | 6.86      | 3.68      | 6.97      | 0.000486   | 2.66     | 1307.17   | 296.77    | 0.21          |
| North Main | reach 1 | 6000.      | 4457.00  | 1.77      | 7.23      | 4.11      | 7.40      | 0.000699   | 3.34     | 1416.89   | 301.04    | 0.26          |
| North Main | reach 1 | 6000.      | 5888.00  | 1.77      | 7.43      | 4.58      | 7.69      | 0.001072   | 4.23     | 1475.75   | 303.30    | 0.32          |
| North Main | reach 1 | 8000.      | 10712.00 | 1.77      | 7.66      | 5.88      | 8.47      | 0.003095   | 7.37     | 1547.89   | 306,07    | 0.55          |
| North Main | reach 1 | 4066       | 3291.00  | 1.84      | 5.80      | 3.41      | 5.90      | 0.000621   | 2.52     | 1303.51   | 352.71    | 0.23          |
| North Main | reach 1 | 4058       | 4457.00  | 1.84      | 6.15      | 3.74      | 6.22      | 0.000511   | 2.42     | 4852.86   | 16473.96  | 0.21          |
| North Main | reach 1 | 4058       | 5868.00  | 1.84      | 6.37      | 4.10      | 6.41      | 0.000408   | 2.24     | 8558.91   | 16860,40  | 0.19          |
| North Main | reach 1 | 4056       | 10712.00 | 1.84      | 8.85      | 5.15      | 6.87      | 0.000301   | 2.08     | 16955.58  | 17800.96  | 0.17          |
| North Main | reach 1 | 4024       | 3291.00  | 1.84      | 5.79      | 3,41      | 5.89      | 0.000629   | 2.53     | 1298.54   | 352.64    | 0.23          |
| North Main | reach 1 | 4024       | 4457.00  | 1.84      | 6.13      | 3.74      | 6.21      | 0.000531   | 2.47     | 4656.88   | 16453.51  | 0.22          |
| North Main | reach 1 | 4024       | 5868.00  | 1.84      | 6.36      | 4.10      | 6.41      | 0.000421   | 2.27     | 8399.91   | 16844.12  | 0.19          |
| North Main | reach 1 | 4024       | 10712.00 | 1.84      | 6.85      | 5.14      | 6.87      | 0.000301   | 2.06     | 16955.58  | 17800.96  | 0.17          |
| North Main | reach:1 | 2000.      | 3575.00  | 1,72      | 4.16      | 2.81      | 4.25      | 0.001056   | 2.41     | 1484.15   | 642.56    | 0.28          |
| North Main | reach 1 | 2000.      | 4920.00  | 1,72      | 4.43      | 3.05      | 4.56      | 0.001398   | 2.97     | 1654.04   | 644.18    | 0.33          |
| North Main | reach t | 2000.      | 6522.00  | 1,72      | 4.68      | 3.32      | 4,88      | 0.001803   | 3.59     | 1816.57   | 645.72    | 0.38          |
| North Main | reach 1 | 2000.      | 10850.00 | 1.72      | 5.13      | 3.91      | 5.54      | 0.003049   | 5.14     | 2109.80   | 648.49    | 0.50          |
| - <b>1</b> |         |            |          |           |           |           |           |            |          |           |           |               |
| North Main | reach 1 | 0.         | 3575.00  | 1.41      | 3.59      | 1.98      | 3,60      | 0.000155   | 0.77     | 6745.72   | 7371.77   | 0.10          |
| North Main | reach 1 | 0.         | 4920.00  | 1.41      | 3.85      | 2.12      | 3,85      | 0.000155   | 0.84     | 8654.40   | 7646.04   | 0.10          |
| North Main | reach 1 | 0.         | 6522.00  | 1,41      | 4.10      | 2.26      | 4.11      | 0.000155   | 0.90     | 10901.75  | 10307.77  | 0.11          |
| North Main | reach 1 | 0.         | 10850.00 | 1.41      | 4.62      | 2.63      | 4.63      | 0.000155   | 1.03     | 16375.00  | 10712.36  | 0.11          |

## **HEC-RAS MODEL**

PROPOSED CONDITIONS 50% DIVERSION

HEC-RAS Plan: P 50% D

| HEC-RAS Plan:  |                                 | T  | T                  |                |                |                |                |            |              |                   |                |              |
|--|---------------------------------|--|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-------------------|----------------|--------------|
| River  | Reach                           | River Sta  | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chni     | Flow Area         | Top Width      | Froude # Chi |
| 14 14 15 11  |                                 |  | (cfs)              | (ft)           | (ft)           | (ft)           | <b>(ft)</b> :  | (nvn)      | (ft/s)       | (sq ft)           | (ft)           | Magna and A  |
| La Sal Vioja<br>La Sal Vioja   | Reach 1                         | 15060  | 923.00<br>1531.00  | 24.30          | 31.85<br>34.44 | 26.73          | 31.92          | 0.000356   | 2.22         | 415.85            | 70,19          | 0.16         |
|  | Reach 1                         |  | -                  | 24.30          |                | 27.65          | 34.54          | 0.000329   | 2.50         | 611.54            | 80.57          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15060  | 2121.00            | 24.30          | 36.53          | 28.41          | 36.64          | 0.000311   | 2.69         | 788.49            | 88.93          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15060  | 1107.00            | 24,30          | 39.26          | 27.03          | 39.28          | 0.000039   | 1.06         | 1046.47           | 99.86          | 0.00         |
| 11.7,110.1,111.1   | 01110                           |  | 000 00             | 24.20          |                |                | 24.00          | 0.000057   |              | 445.40            | 70.47          |              |
| La Sal Vieja   | Reach 1                         | 15050  | 923.00             | 24.30          | 31.84          | 26.73          | 31.92          | 0.000357   | 2.22         | 415.48            | 70.17          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15050<br>15050   | 1531.00            | 24.30          | 34.44          | 27.65          | 34.54          | 0.000329   | 2.51         | 611.18            | 80.58          | 0.16         |
| La Sal Vieja   | Reach 1                         | the state of the s | 2121.00            | 24.30          | 36.53          | 28,41          | 36.64          | 0.000311   | 2.69         | 788.14            | 88.91          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15050  | 1107.00            | 24.30          | 39.26          | 27.03          | 39.28          | 0.000039   | 1.06         | 1048.43           | 99.86          | 0.00         |
|  |                                 | 2-2-2  |                    |                |                |                |                | 0.00000    |              |                   |                |              |
| La Sal Vieja   | Reach 1                         | 15010  | 923.00             | 24.30<br>24.30 | 31.84          | 29.73          | 31.91          | 0.000358   | 2.22         | 415.11            | 70.15          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15010  | 1531.00            |                | 34.43          | 27.65          | 34.53          | 0.000330   | 2.51         | 610.82            | 80.54          | 0.16         |
| La Sal Vieja<br>La Sal Vieja   | Reach 1                         | 15010  | 2121.00            | 24.30          | 36.52          | 28.41          | 36.64          | 0.000311   | 2.69         | 787.78            | 88.89          | 0.16         |
| La Sai Vieja   | Reach 1                         | 15010  | 1107.00            | 24,30          | 39.26          | 27.03          | 39.28          | 0.000039   | 1.06         | 1046.39           | 99.86          | 0.00         |
| La Sal Vieja   | Reach 1                         | 15000  | 923.00             | 24 20          | 31.83          |                | 31.91          | 0.000358   | 2.23         | 414.75            | 70.47          |              |
|  |                                 | 15000  | 1531.00            | 24.30<br>24.30 | 34.43          |                | 34.53          | 0.000331   | 2.23         | 610.46            | 70.13<br>80.52 | 0.16         |
| La Sal Vieja   | Reach 1                         | 15000  | 2121.00            | 24.30          | 36.52          |                | 36.63          | 0.000331   | 2.51         | 787.42            | 88.88          | 0.16         |
| La Sal Vieja   | Reach 1                         |  |                    |                |                |                |                |            |              |                   |                | 0.16         |
| La Sal Vieja   | Reach 1                         | 15000  | 1107.00            | 24.30          | 39.26          |                | 39.28          | 0.000039   | 1.06         | 1046.35           | 99.85          | D.06         |
|  |                                 | E LIVER DE LA COMP   |                    |                |                |                |                | 0.00000    |              | 100 57            | 7000           |              |
| La Sal Vieja   | Reach 1                         | 12500  | 923.00             | 23.30          | 30.96          |                | 31.03          | 0.000338   | 2.18         | 423.57            | 70.63          | 0.16         |
| La Sal Vieja   | Reach f                         | 12500  | 1531.00            | 23.30          | 33.63          |                | 33.72          | 0.000307   | 2.44         | 626.72            | 81.32          | 0.16         |
| La Sal Vieja   | Reech 1                         | 12500  | 2121.00<br>1107.00 | 23.30          | 35,77          |                | 35.87          | 0.000289   | 2.62<br>0.97 | 809.56<br>1140.05 | 89.87          | 0.15         |
| Le Sal Vieja   | Reach 1                         | 12500  | 1107.00            | 23.30          | 39.18          |                | 39.20          | 0,000031   | 0.97         | 1140.05           | 103.54         | 0.05         |
| I o Cal \mathred   | Don't d                         | OGEA .   | 003.00             | 22.16          | 20.00          |                | 20.40          | 0.000302   | 245          | 440.04            | 74.54          |              |
| La Sal Vieja   | Reach 1                         | 9850   | 923.00<br>1531.00  | 22.16          | 30.05<br>32.81 |                | 30.12<br>32.90 | 0.000302   | 2.10         | 440.24<br>652.95  | 71.57          | 0.15         |
| La Sal Vieja   | Reach 1                         | 9650   | 2121.00            | 22.16          |                |                |                |            |              |                   | 82.61          | 0.15         |
| La Sal Vieja   | Reach 1                         | 9650<br>9650   | 1107.00            | 22.16          | 35.00<br>39.12 |                | 35.09<br>39.13 | 0.000258   | 2.52<br>0.88 | 842.97<br>1253.60 | 91.35          | 0.15         |
| La Sal Vieja   | Reach 1                         | <b>3000</b>  | 1107.00            | 22.16          | 39.12          |                | 39.13          | 0.000024   | 0.68         | 1253.60           | 107.84         | 0.08         |
| La Sal Vieja   | Reach 1                         | 7500   | 923.00             | 21.30          | 29.44          |                | 29.50          | 0.000270   | 2.01         | 458.24            | 72.57          | 0.14         |
| La Sal Vieja   | Reach 1                         | 7500   | 1531.00            | 21.30          | 32.26          |                | 32.34          | 0.000270   | 2.01         | 458.24<br>678.46  | 83.83          | 0.14         |
| The second secon | Reach                           | 7500   | 2121.00            | 21.30          | 34.47          |                | 34.56          | 0.000246   | 2.43         | 873.94            | 92.69          | 0.14         |
| La Sal Vieja<br>La Sal Vieja   | Reach 1                         | 7500   | 1107.00            | 21.30          | 39.07          |                | 39.08          | 0.000020   | 0.82         | 1342.54           | 111.09         | 0.04         |
| ra sa vieta  | r(bach 1                        | 1500   | 1707.00            | 21.30          | 39.07          |                | 39.00          | 0.000020   | 0.02         | 1342.34           | 171.09         | 0.04         |
| La Sal Vieja   | Reach 1                         | 4100   | 923.00             | 19,94          | 28.64          |                | 28.69          | 0.000212   | 1.85         | 499.35            | 74.80          | 0.13         |
|  | Reach 1                         | 4100   | 1531.00            | 19,94          | 31.51          |                | 31.58          | 0.000212   | 2.09         | 730.84            | 86.29          |              |
| La Sal Vieja   | Reach 1                         | 4100   | 2121.00            | 19.94          | 33.76          |                | 33.84          | 0.000200   | 2.09         | 934.61            | 95.27          | 0.13         |
| La Sal Vieja   | the second second second second | 4100   | 1107.00            | 19.94          | 39.03          |                | 39.03          | 0.000194   | 0.74         | 1491.88           | 116.34         | 0.13         |
| La Sal Vieja   | Reach 1                         | ¥100   | 1107.00            | 19.94          | 39.03          |                | 39.03          | 0.000015   | 0.74         | 1491.00           | 110.34         | 0.04         |
| La Sal Vieja   | Reach 1                         | 1000   | 923.00             | 18.70          | 28.08          | 21.13          | 28.12          | 0.000160   | 1.67         | 551.10            | 77.52          | 0.11         |
| La Sal Vieja   | Reach 1                         | 1000   | 1531.00            | 18.70          | 30.97          | 22.05          | 31.03          | 0.000160   | 1.93         | 791.73            | 89.07          | 0.11         |
| La Sal Vieja   | Reach 1                         | 1000   | 2121.00            | 18.70          | 33.22          | 22.81          | 33.29          | 0.000160   | 2.12         | 1002.52           | 98.08          | 0.12         |
| La Sal Vieja   | Reach 1                         | 1000   | 1107.00            | 18.70          | 39.00          | 21.43          | 39.00          | 0.000006   | 0.55         | 4567.38           | 1082.00        | 0.02         |
| La Gai Vioja   | ALTO DE TABLE                   | 1000   | 1101.00            | 10.70          | 03.00          | 21.40          | 00.00          | 0.00000    | - 0.50       | 4557.50           | 1002.00        | 5.02         |
| raymondville   | Reach 8                         | 296300   | 629.00             | 70.00          | 77.60          |                | 77.67          | 0.000461   | 2.19         | 287.09            | 60.58          | 0.18         |
| raymondville   | Reach 8                         | 296300   | 1287.00            | 70.00          | 80.30          |                | 80.35          | 0.000278   | 2.03         | 1625.49           | 3000.00        | 0.16         |
| raymondville   | Reach 8                         | 296300   | 2370.00            | 70.00          | 82.66          |                | 82.66          | 0.000017   | 0,61         | 8705.56           | 3000.00        | 0.04         |
| raymondville   | Reach 8                         | 296300   | 6583.00            | 70.00          | 86.09          |                | 86.09          | 0.000011   | 0.60         | 19003.37          | 3000.00        | 0.03         |
| ,  | 2724,97139713782                | A AGE S  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 295300   | 629.00             | 69.54          | 77.14          |                | 77.21          | 0.000461   | 2.19         | 287.05            | 60.58          | 0.18         |
| raymondville   | Reach 8                         | 295300   | 1287.00            | 69.54          | 79.96          |                | 80.04          | 0.000351   | 2.30         | 1051.72           | 1878.68        | 0.18         |
| raymondville   | Reach 8                         | 295300   | 2370.00            | 69.54          | 82.64          |                | 82.65          | 0.000015   | 0.58         | 9055.57           | 3000.00        | 0.04         |
| raymondville   | Reach 8                         | 295300   | 6583.00            | 69.54          | 86.08          |                | 86.08          |            |              |                   | 3000.00        | 0.03         |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1   | Ustawer Cv. 19                  |  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 293500   | 629.00             | 68.71          | 76.32          | 71.77          | 76.39          | 0.000458   | 2.19         | 287.73            | 60.65          | 0.18         |
| raymondville   | Reach 8                         | 293500   | 1287.00            | 68.71          | 79.20          | 73.22          | 79.31          | 0.000464   | 2.64         | 487.54            | 77.95          | 0.19         |
| raymondville   | Reach 8                         | 293500   | 2370.00            | 68.71          | 82.41          | 74.90          | 82.56          | 0.000465   | 3.08         | 768.35            | 97.19          | 0.19         |
| raymondville   | Reach 8                         | 293500   | 6583.00            | 68.71          | 86.03          | 78.94          | 86.04          | 0.000088   | 1.61         | 9256.79           | 3000.00        | 0.09         |
|  |                                 | This will be   |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 291800   | 629.00             | 87.93          | 75.54          | 70.99          | 75.61          | 0.000458   | 2.19         | 287.73            | 60.64          | 0.18         |
| raymondviše  | Reach 8                         | 291800   | 1287.00            |                | 78.41          | 72.44          | 78.52          | 0.000465   | 2.64         | 486.93            | 77.90          | 0.19         |
| raymondville   | Reach 8                         | 291800   | 2370.00            | 67.93          | 81.62          | 74.12          | 81.77          | 0.000466   | 3.09         | 767.52            | 97.14          | 0.19         |
| raymondville   | Resch 8                         | 291800   | 6583.00            | 67.93          | 85.89          | 78.16          | 85.91          | 0.000067   | 1.41         | 9200.27           | 3000.00        | 0.08         |
|  |                                 | 44,0000  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 289400   | 629.00             | 66.82          | 74.44          | 69.88          | 74.51          | 0.000455   | 2.18         | 288.53            | 60.72          | 0.18         |
| raymondville   | Reach 8                         | 289400   | 1287.00            | 66.82          | 77,30          | 71.33          | 77.41          | 0.000465   | 2.64         | 486.93            |                | 0.19         |
| raymondville   | Reach 8                         | 289400   | 2370.00            | 66.82          | 80.51          | 73.01          | 80.66          |            |              | 767.52            |                | 0.19         |
| raymondville   | Reach 8                         | 289400   | 6583.00            | 66,82          | 85.75          | 77.05          | 85.76          | 0.000054   | 1.32         | 9693.57           | 3000.00        | 0.0          |
|  |                                 |  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 287000   | 629.00             | 65.72          | 73.35          |                | 73.43          | 0.000451   | 2.17         | 289.34            | 60.80          | 0.1          |
| raymondville   | Reach 8                         | 287000   | 1287.00            | 65.72          | 76.18          |                | 76.29          | 0.000470   | 2.65         | 485.14            | 77.76          | 0.1          |
| raymondville   | Reach 8                         | 287000   | 2370.00            |                | 79.39          |                | 79.53          | 0.000470   |              |                   | 96.99          | 0.19         |
| raymondville   | Reach 8                         | 287000   | 6583.00            | 65.72          | 85.08          |                | 85.41          | 0.000701   | 4.65         | 1415.00           | 140.57         | 0.2          |
|  | 1                               | 230 17 300 100   |                    |                |                |                |                |            |              |                   |                |              |
|  | Reach 8                         | 285100   | 629.00             | 64.84          | 72.50          | 67.90          | 72.58          | 0.000444   | 2.16         | 291.21            | 60.99          | 0.1          |
| raymondville   |                                 |  |                    |                |                |                |                | 0.000470   |              | 1                 |                | 0.4          |
| raymondville   | Reach 8                         | 285100   | 1287.00            | 64.84          | 75.28          | 69.35          | 75.39          | 0.000473   | 2.66         | 483.84            | 77.66          | 0.1          |
|  |                                 | 285100<br>285100   | 1287.00<br>2370.00 |                |                | 69.35<br>71.03 |                |            |              |                   |                |              |

HEC-PAS Plan- P 50% D (Continued)
River Reach RiverSta ( Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Chni Flow Area E.G. Slope Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (fl/ff) (ft/s) (sq ff) (ft) raymondville Reach 8 283500 629.00 64.11 71.79 67.17 71.86 0.000439 2.15 292.33 61.10 0.17 raymondville Reach B 283500 1287.00 64.11 74.52 68.62 74.63 0.000481 2.67 481.17 77.45 0.19 rzymondville Reach 8 283500 2370.00 64.11 77.73 70.30 77.88 0.000477 3.12 760.81 95.72 0.20 raymondville Reach 8 283500 6583.00 64.11 B2.21 74.35 82.61 0.000910 5.10 1514.02 1562.61 0.29 raymondville Reach 8 281800 629.00 63,33 71.06 71.13 0.000428 2.13 295.07 61.37 0.17 raymondville 281800 1287.00 63.33 73,69 73.80 0.000490 2.70 477.52 77.17 0.19 raymondville Reach 8 281800 2370.00 63.33 76.91 77.06 0.000483 3.13 757,16 96.49 0.20 raymondville Reach 8 281800 6583.00 63.33 81.99 82.02 0.000133 2.06 7761.97 3000.00 0.12 raymondville Reach 8 279700 656.00 62.36 70.12 70.19 0.000458 2.21 296.80 61.54 0.18 raymondville Reach & 279700 1240.00 62.36 72.70 72.81 0.000459 2.60 476.21 77.07 0.18 raymondville 279700 2315.00 62.36 75.93 76 07 0.000484 3.06 755.69 96.40 0.19 raymondville 279700 6197.00 62.36 81.67 81.72 0.000164 2.31 5405.04 1733.32 0.13 Reach 8 275500 656.00 60.43 68,18 68.26 0.000460 2.21 296.42 61.50 0.18 raymondville Reach 8 275500 1240.00 60.43 70.78 70.88 0.000458 2.60 476.38 77.08 0.18 Reach 8 275500 2315.00 73.97 60.43 74.12 0.000467 3.07 753.39 96.26 0.19 raymondville Reach 8 275500 6197.00 60.43 80.27 80.55 0.000551 4.19 1481.88 155.90 0.22 raymondville Reach 8 273500 656.00 59.51 67.26 67.34 0.000460 2.21 296.49 61.51 0.18 raymondville Reach 8 273500 1240.00 59.51 69.86 89.97 0.000457 2.60 476.76 77.11 0.18 raymondville Reach 8 273500 2315.00 59.51 73.04 73.18 0.000470 3.08 751 89 96.15 0.19 raymondville Reach 8 273500 6197.00 59.51 79.13 79.41 0.000583 4.28 1448 89 132.71 0.23 raymondville Reach 8 272300 656.00 58.96 66.71 66.79 0.000460 2.21 298.40 61.50 0.18 raymondville Reach 8 272300 1240.00 58.96 69.31 69.42 0.000457 2.60 476 89 77.12 0.18 raymondville Reach A 272300 2315.00 58.96 72.47 72.62 0.000473 3.09 750.12 96.05 0.19 raymondville Reach 8 272300 6197.00 58.96 78.40 78.70 0.000608 4.35 1425.84 131.66 0.23 raymondville Reach & 270300 656.00 58.04 65.79 61.17 65.87 0.000460 2.21 296.40 61.50 0.16 raymondville Reach 8 270300 1240.00 58.04 68.39 62.46 68.50 0.000457 2.60 476.B9 77.12 0.18 raymondville Reach 8 270300 2315.00 58.04 71.53 64.17 71.67 0.000477 3.10 747.89 95.91 0.20 raymondville Reach 8 270300 6197.00 58.04 77.57 67.98 77.73 0.000365 3.48 2781.61 2078.27 0.19 raymondville Reach 8 268100 57.02 656.00 64.78 50.15 64.86 0.000457 2.21 297 14 61 57 0.18 raymondville Reach 8 268100 57.02 1240.00 67.39 61.44 67.50 0.000453 2.59 478.40 77.24 0.18 raymondville Reach 8 266100 2315.00 57.02 70.47 63.15 70.62 0.000482 3.11 744.46 95.70 0.20 raymondville Reach 8 268100 6197.00 57.02 76.39 66.96 76.69 0.000820 4.38 1415.92 131,21 0.23 raymondville Reach 8 266400 656.00 56.24 64.00 59.37 64.08 0.000457 2.21 297.14 61 57 0.18 56.24 raymondville Reach 8 266400 1240.00 66.62 60.66 66.73 0.000451 2.59 479.10 77.29 D.18 raymondville Reach 8 286400 2315.00 56.24 69.64 62.37 69.79 0.000491 3.13 739.75 95 40 0.20 raymondville Reach 8 266400 6197.00 56.24 75.90 66.18 76.00 0.000246 2.90 3718.53 2869.75 0.16 raymondville Reach 8 264100 656.00 55.18 62.96 58.31 63.03 0.000453 2.20 298.D1 61.65 0.18 raymondville Reach 6 264100 1240.00 55.18 65.59 59.60 65.69 0.000446 2.58 481.39 77.47 0.18 raymondville Reach 8 264100 2315.00 55.18 68,49 61.31 68.65 0.000506 3.17 731.26 94 87 0.20 raymondville Reach 8 264100 6197.00 55.18 75.04 65.12 75.24 0.000431 3.77 2591.51 3000.00 0.21 raymondville Reach 8 262450 656.00 54.42 62.21 57.55 62.29 0.000449 2.19 299.00 61.75 0.18 raymondville Reach & 282450 1240 00 54.42 64.86 58.84 64.96 0.000440 2.56 483.78 77.66 0.18 raymondville Reach 8 262450 2315.00 54.42 67.64 60.55 67.80 0.000523 722.48 3.20 94.31 0.20 raymondvilla Reach 6 262450 6197.00 54.42 74.14 64.36 74.42 0.000568 4.24 1462.67 133.33 0.23 Reach 8 260550 raymondville 770 00 53.56 61 34 61.43 0.000456 2.28 337.48 66.71 0.18 260550 raymondville Reach 8 1434.00 53.56 64.00 64.12 0.000452 2.67 538.18 82.67 0.19 raymondville Reach 8 260550 2395 00 53.56 66.72 66 87 0.000455 3.06 783.21 98.99 0.19 raymondville 260550 Reach B 6408.00 53.56 73.10 73.37 0.000535 4.17 1538.44 137.25 0.22 raymondville 259250 Reach 8 770.00 52.96 60.76 60 R4 0.000453 2.27 338.49 66.80 0.18 raymondville Reach 8 259250 1434.00 52.96 63.43 63,54 0.000448 2.67 537.99 82.80 0.18 raymondville Reach 8 259250 2395 00 52.96 58.14 66.29 0.000452 3.05 784.93 99.09 0.19 raymondville Reach 8 259250 6408.00 52.96 72.40 72.67 0.000548 4.21 1522.23 135.62 0.22 258000 raymondville Reach 8 770.00 52.39 60.20 60.28 0.000451 2.27 338.87 66.83 0.18 Reach 8 rzymondville 258000 1434.00 52.39 62.87 62.98 0.000446 2.66 539.00 82.87 0.18 Reach 8 258000 raymondville 2395.00 52.39 65.58 65 72 0.000451 3.05 785.53 99.13 0.19 raymondville Reach 8 258000 6408.00 52.39 71.69 71.98 0.000566 4.26 1504.10 135.83 0.23 raymondville Reach 8 255800 51.37 59.21 770.00 59.28 0.000444 2.26 340.88 67.01 0.18 raymondville Reach 6 255800 1434.00 2.64 51.37 61.90 62 01 0.000437 543.21 83.18 0.18 raymondville Reach 8 255800 2395.00 51.37 64.58 64.73 0.000447 3.04 788.03 99.28 0.19 255800 raymondville Reach 8 6408.00 51.37 70.39 70.69 0.000607 4.37 1465.64 134.12 0.23 raymondville Reach 8 252200 57.65 49.72 770.00 57.73 0.000421 2.22 347.52 67.60 0.17

raymondville

raymondville

Reach 8

Reach 8

252200

252200

49.72

49.72

60.37

52.99

60.48

63.13

0.000415

0.000439

2.59

3.02

553.36

793 83

83.91

99.63

0.18

1434.00

HEC-RAS Plan. P 50% D (Continued) Q Total Reach River Sta Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chl (cfs) (sq ft) (fi) (ft) (ft) raymondville Reach 8 252200 6408 00 49 72 67.93 68 27 0.000743 472 1358 53 129 24 0.26 raymondville Reach 8 250350 770 00 48 87 56 89 56 97 0.000402 2.18 353 68 68 15 0.17 raymondville Reach 8 250350 1434.00 48.87 59.62 59.72 0.000399 2.55 561.74 84.50 0.17 raymondville Reach 8 250350 2395.00 48 87 62.19 62.33 0.000432 3.00 798.44 99.91 0.19 250350 6408.00 48.87 66.37 0.000893 5.05 1268.30 124.98 0.28 raymondville Reach 8 66.76 Reach 8 248900 770.00 48.20 56.33 56.40 0.000380 2.13 360.92 68.79 0.16 raymondville Reach 8 248900 1434.00 48.20 59.06 59.16 0.000382 2.51 570.83 85.15 0.17 raymondville Reach 8 248900 2395.00 48.20 61 57 61.71 0.000424 2.98 803.58 100.22 0.19 6408.00 48.20 64.83 1162.86 119.82 0.31 raymondville Reach 8 248900 65.31 0.001127 5.51 raymondville Reach B 245400 770.00 46 59 55.15 49.63 55.21 0.000307 1.97 390 69 71 33 0.15 raymondville 245400 1434,00 46.59 57.83 50,93 57.91 0.000329 2.38 603.47 87.41 0.16 Reach B Reach 8 245400 raymondville 2395.00 46.59 60,14 52.32 60.27 0.000395 2.90 911.63 758.35 0.18 raymondville Reach 8 245400 6408.00 46.59 64.17 56.09 0.000123 1.93 6405.04 1616.34 0.11 64.19 Reach 8 242800 770 QO 45.39 54.45 48 43 54.50 0.000241 1 80 427 34 74 35 0.13 raymondville Reach 8 242800 1434.00 45 39 57.05 49.73 57.12 0.000280 2.24 640 70 89,93 0.15 Reach B 242800 2395.00 45.39 59.15 51.12 59.27 0.000373 2.84 842.91 102.54 0.17 raymondville raymondville Reach 8 242800 6408.00 45.39 63.82 54.90 63.85 0.000138 2.06 6027.32 1567.96 0.11 raymondville Reach R 240200 831.00 44 20 53.86 53 91 0.000212 1 75 473 53 77 99 0.13 Reach B 240200 1497.00 44.20 56.36 56.43 0.000253 2.18 686.66 92.95 0.14 raymondyille raymondville Beach R 240200 2298 00 44 20 58 2R 58 38 0.000310 2.62 875 98 104.46 0.16 Reach 6 240200 5757.00 44.20 62.98 63.23 0.000519 4.02 1433,72 132.68 0.22 raymondville raymondville 42.22 53.20 1.43 Reach 8 235900 831.00 53.23 0.000122 581.01 85.86 0.10 raymondville Reach 8 235900 1497.00 42.22 55.48 55.54 0.000172 1.89 793.13 99.59 0.12 raymondville Reach 8 235900 2298 00 42 22 57 13 57.21 0.000239 2 38 964.63 109.43 0.14 raymondville Reach 8 235900 5757.00 42.22 60.88 61.09 0.000475 3.83 2032.83 933.67 0.21 233900 831.00 0.000027 1918.23 673.88 raymondville Reach 8 41.30 53.12 53.12 0.77 0.05 raymondville Reach 8 233900 1497,00 41.30 55,43 55.44 0.000019 0.76 3817.40 1021,34 0.04 raymondville 5897.06 1485.85 Reach 8 233900 2298.00 41.30 57.09 57.10 0.000019 0.83 0.04 raymondville Reach 8 233900 5757.00 41.30 60.93 60.93 0.000017 0.96 13632.63 2516.23 0.04 raymondville Reach 8 231612 B31.00 40.87 52.92 52.98 0.000248 2.02 410.78 58.20 0.13 raymondvilla 658 87 Reach B 231612 1497 00 40.87 55 31 55 34 0.000140 181 1532.76 0.11 231612 2298 00 40.87 56 99 57.01 0.000092 1.64 2776.09 816.19 0.09 raymondville Reach B 231612 5757.00 40.87 60.84 60.88 0.000065 1.69 7624.78 2095,21 0.08 raymondvilla Reach 8 2276B4 831.00 40.09 51.92 51.99 0.000258 2.05 405.05 57.90 0.14 raymondville Reach 8 227684 1497 00 40.09 54 41 54 52 0.000341 2 64 624.80 260.35 0.16 raymondville Reach 8 227684 2298.00 40.09 56.35 56.43 0.000268 2.61 1376.72 499.89 0.15 2057.54 raymondville Reach 8 227684 5757.00 40.09 60.39 60.45 0.000184 2.72 4560.16 0.13 raymondville 387.01 56.53 Reach 8 225004 831.00 39.55 51,18 51.26 0.000291 2.15 0.14 raymondville Reach 8 225004 1497.00 39.55 53.37 53.49 0.000429 2.88 519.93 65.26 0.18 raymondville 0.000561 3.55 648.00 72.69 Reach 8 225004 2298.00 39.55 55.22 55.42 0.21 raymondville 0.000330 3578,83 1339,66 0.17 Reach 8 225004 5757.00 39.55 59.68 59.80 3.47 222418 831.00 39.03 51.03 51.03 0.000034 0.65 2176.38 925.74 0.05 raymondville Reach 6 4572.37 1152,72 0.04 39.03 53.34 0.000016 0.69 raymondville Reach 8 222418 1497.00 53.34 6999.62 raymondville 1615.09 0.04 Reach 8 222418 2298.00 39,03 55.25 55.25 0.000015 0.73 0.000011 16649.82 0.03 0.76 2625.92 raymondville Reach 8 222418 5757.00 39.03 59.68 59.69 58.55 0.13 831.00 38.71 50.91 0.000240 416.06 raymondville Reach 8 220780 50.85 2.00 67.74 0.16 220780 38,71 53.15 53.26 0.000350 2.67 561.20 raymondville Reach 8 1497.00 75.11 2298.00 38.71 54.99 55.16 0.000469 3,32 692.90 0.19 raymondville Reach 8 220780 raymondville 59.58 5.48 1195.68 583.57 0.29 0.000978 Reach 8 220780 5757.00 38.71 59.12 50.09 408.60 58.05 0.14 50.15 0.000252 2.03 217688 831.00 38.09 raymondville Reach 8 2.86 523.40 65.49 0.18 52.07 0.000421 217688 1497.00 38.09 51.95 raymondville Reach B 0.000656 3.76 611.29 70.65 0.23 53.46 217688 2298.00 38.09 53.24 raymondville Reach 6 1076,17 0.21 0.000491 4.03 2833.51 raymondville Reach 8 217688 5757.00 38.09 57.24 57.41 400.23 57.47 0.14 49.58 0.000266 2.08 215481 831,00 37.65 49.51 raymondville Reach 8 215481 1497.00 37.65 51.20 51.28 0.000299 2.48 1013.24 604.76 0.15 raymondville Reach 8 765.85 215481 2298.00 52.65 0.000212 2.31 1967.73 0.13 37.65 52.60 raymondville Reach 8 57.01 0.000077 1.79 7436.04 2229.71 0.08 5757.00 215481 37.65 56.99 raymondville Reach 8 49.06 0.000263 2.07 401.87 57.72 0.14 213503 48.99 831.00 37.25 raymondville Reach 8 0.14 50.69 50.74 0.000242 2.17 1209.65 578.46 213503 1497.00 37.25 raymondville Reach 8 755.59 0.11 52.29 0.000152 1.94 2252.21 52.26 raymondville Reach 8 213503 2298.00 37.25 0.000063 1.62 8906.80 2739.35 0.08 raymondville Reach 8 213503 5757.00 37.25 56.86 56.87 656.03 643.65 0.13 raymondville 211886 B31.00 36.93 48.59 0.000232 Reach 8 211886 50.54 0.000068 2929.33 1552.12 0.07 raymondville 1497.00 36.93 50.53 Reach 8

HEC-RAS Plans P 50% D (Continued)

| HFC-RAS                      | Plant P 50% I      | Continue         |                    | Ma Ot Et       | 1410 El-       | 031110       |                   | F 0 01                |                    | <del></del>           |                  |              |
|------------------------------|--------------------|------------------|--------------------|----------------|----------------|--------------|-------------------|-----------------------|--------------------|-----------------------|------------------|--------------|
| T(IVOI                       | Reach              | RIVER SUE        | Q Total<br>(cfs)   | Min Ch El      | W.S. Elev      | Crit W.S.    | E.G. Elev<br>(ft) | E.G. Slope<br>(ft/ft) | Vel Chni<br>(ft/s) | Flow Area<br>(sq ft): | Top Width        | Froude # Ch! |
| raymondville                 | Reach 8            | 211888           | 2298.00            | 36.93          | 52.18          | (1)          | 52.19             | 0.000031              | 0.90               | 5951.17               | 2058.93          | 0.05         |
| raymondville                 | Reach 8            | 211886           | 5757.00            | 36.93          | 56.83          | ~            | 56.83             | 0.000011              | 0.68               | 20601.59              | 4951.01          | 0.03         |
| 14:                          |                    |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |
| røymondville                 | Reach 8            | 210380           | 831.00             | 36.63          | 48.18          |              | 48.25             | 0.000296              | 2.18               | 384.34                | 56.38            | 0.15         |
| raymondville                 | Reach 8            | 210380           | 1497.00            | 36.63          | 50.18          |              | 50.32             | 0.000463              | 2.96               | 505.35                | 64.39            | 0.19         |
| rsymondville                 | Reach B            | 210380           | 2298.00            | 36.63          | 51.82          |              | 52.04             | 0.000641              | 3.73               | 616.64                | 70.97            | 0.22         |
| reymondville                 | Reach B            | 210380           | 5757.00            | 36.63          | 56.37          |              | 56.74             | 0.000916              | 5.20               | 2066.04               | 2204.40          | 0.28         |
|                              | 454 (3.1)          | 2                |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 210328           | 831.00             | 36.62          | 48.16          |              | 48.23             | 0.000297              | 2.16               | 384.03                | 56.38            | 0.15         |
| raymondville                 | Reach 8            | 210326           | 1497.00            | 36.62          | 50.16          |              | 50.30             | 0.000464              | 2.97               | 504.76                | 64.36            | 0.19         |
| raymondville                 | Reach 8            | 210328           | 2298.00            | 36.62          | 51.80          |              | 52.02             | 0.000644              | 3.73               | 615.54                | 70.91            | 0.22         |
| raymondville                 | Reacilo            | 210328           | 5757.00            | 36.62          | 56.29          | -            | 56.69             | 0.000969              | 5.34               | 1901.08               | 2083.91          | 0.28         |
| raymondville                 | Reach 8            | 208056           | 831.00             | 36.16          | 47.48          |              | 47.53             | 0.000320              | 2.23               | 373.45                | 55,68            | 0.15         |
| rsymondville                 | Reach 8            | 206056           | 1497.00            | 36.16          | 48.94          |              | 49,11             | 0.000592              | 3.25               | 460.78                | 61.61            | 0.15         |
| raymondville                 | Reach 8            | 208058           | 2298.00            | 36.16          | 49.91          |              | 50.21             | 0.000999              | 4.40               | 522.16                | 65.48            | 0.27         |
| raymondville                 | Reach 8            | 208058           | 5757.00            | 36.16          | 51.26          |              | 52.62             | 0.004072              | 9.38               | 613.79                | 70.85            | 0.56         |
| Jana San                     | add Stayle in      | 1. 数4点0.44       |                    |                |                | İ            |                   |                       |                    |                       | , ,,,,,,         | 5.55         |
| raymondville                 | Reach 8            | 205823           | 831.00             | 35.72          | 46.80          |              | 46.86             | 0.000280              | 2.06               | 598,00                | 406.02           | 0.14         |
| rzymondville                 | Reach 8            | 205823           | 1497.00            | 35.72          | 48.39          |              | 48.42             | 0.000172              | 1.85               | 1930.33               | 1518.01          | 0.11         |
| raymondville                 | Reach 8            | 205823           | 2298.00            | 35.72          | 49.63          |              | 49.65             | 0.000091              | 1.48               | 4214.62               | 2509.09          | 0.09         |
| raymondville                 | Reach 8            | 205823           | 5757.00            | 35.72          | 51.83          |              | 51.84             | 0.000051              | 1.27               | 11847.62              | 3801.30          | 0.07         |
|                              | +4.7% fab.         | 1000             |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville ::              | Reach 8            | 203593           | 831.00             | 35.27          | 46.00          |              | 46.10             | 0.000419              | 2.46               | 337.71                | 52.93            | 0,17         |
| raymondville :               | Reach 8            | 203593           | 1497.00            | 35.27          | 47.51          |              | 47.70             | 0.000750              | 3.55               | 421.84                | 58.95            | 0.23         |
| raymondville                 | Reach 8            | 203593           | 2298.00            | 35.27          | 48.80          |              | 49.12             | 0.001114              | 4.58               | 501.21                | 64.11            | 0.29         |
| raymondville                 | Keach 8            | 203593           | 5757.00            | 35.27          | 51.61          |              | 51.64             | 0.000192              | 2.32               | 7524.88               | 4090.83          | 0.13         |
| raymondville                 | Reach 8            | 202962           | 831.00             | 35.14          | 45.73          | <del></del>  | 45.82             | 0.000446              | 2.52               | 329.94                | 52.34            | 0.18         |
| raymondville -               | Reach 8            | 202962           | 1497.00            | 35.14          | 46.97          |              | 47.19             | 0.000875              | 3.76               | 329.94                | 57.32            | 0.18         |
| raymondville                 | Reach 8            | 202962           | 2298.00            | 35.14          | 47.92          |              | 48.32             | 0.001447              | 5.06               | 454.50                | 61.12            | 0.33         |
| raymondville                 | Reach 8            | 202962           | 5757.00            | 35.14          | 51.47          |              | 51.51             | 0.000228              | 2.52               | 6969.73               | 3978.62          | 0.14         |
| 14                           |                    |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 200800           | 831.00             | 34.67          | 44.95          |              | 45.00             | 0.000273              | 2.04               | 763.32                | 609.63           | 0.14         |
| raymondville                 | Reach 8            | 200600           | 1497.00            | 34.67          | 48.61          |              | 46.62             | 0.000095              | 1.40               | 2582.39               | 1292.30          | 0.09         |
| raymondville                 | Reach 8            | 200600           | 2298.00            | 34.67          | 47.76          |              | 47.77             | 0.000067              | 1,28               | 4184.00               | 1491.97          | 0.07         |
| raymondvilis                 | Reach 8            | 200600           | 5757.00            | 34.67          | 51.25          |              | 51.26             | 0.000057              | 1.45               | 13583.64              | 6000.00          | 0.07         |
| *****                        | 355 No. 1 To 1 1 1 | . 1297 6 17      | ļ                  |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 200550           | 831.00             | 34.66          | 44.94          |              | 44.99             | 0.000276              | 2.04               | 757.71                | 607.80           | 0.14         |
| raymondville                 | Reach 8            | 200550           | 1497.00            | 34.66          | 46.80          |              | 46.61             | 0.000096              | 1.40               | 2575.98               | 1291.60          | 0.09         |
| raymondville                 | Reach 8            | 200550           | 2298.00            | 34.66          | 47.76          |              | 47.77             | 0.000067              | 1.28               | 4179.35               | 1491.26          | 0.07         |
| raymondville                 | Reach 8            | 200550           | 5757.00            | 34.66          | 51.25          |              | 51.26             | 0.000057              | 1.45               | 13566.72              | 6000.00          | 0.07         |
| raymondville                 | Reach 8            | 198245           | 831.00             | 34.20          | 43.91          |              | 44.04             | 0.000655              | 2.91               | 285.77                | 48.84            | 0.21         |
| raymondville                 | Reach 8            | 198245           | 1497.00            | 34.20          | 46.23          |              | 46.28             | 0.000242              | 2.19               | 1615.65               | 1104.68          | 0.14         |
| raymondville                 | Reach 8            | 198245           | 2298.00            | 34.20          | 47.55          |              | 47.57             | 0.000123              | 1.72               | 3340.08               | 1518.92          | 0.10         |
| raymondville                 | Reach 8            | 198245           | 5757.00            | 34.20          | 51.15          | ,            | 51.15             | 0.000033              | 1,11               | 14497.42              | 4867.34          | 0.05         |
| 375 windi 18                 |                    | 5.000            |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 198303           | 831.00             | 31.67          | 43.10          |              | 43.17             | 0.000315              | 2.21               | 375.47                | 55.71            | 0.15         |
| raymondville                 | Reach 8            | 198303           | 1497.00            | 31.67          | 45.57          |              | 45.68             | 0.000395              | 2.77               | 663.13                | 455.79           | 0.17         |
| raymondville                 | Reach 8            | 198303           | 2298.00            | 31.67          | 47.12          |              | 47.20             | 0.000324              | 2.67               | 1589.43               | 810.89           | 0.16         |
| raymondville                 | Reach 8            | 198303           | 5757.00            | 31.67          | 51.04          |              | 51.05             | 0.000101              | 1.80               | 7571.85               | 3343,04          | 0.09         |
|                              |                    | 1757             | <b> </b>           |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 194838           | 831.00             | 31.17          | 42.57          | <u> </u>     | 42.65             |                       | 2.22               | 373.83                | 55.59            | 0.15         |
| raymondville<br>raymondville | Reach 8            | 194638<br>194638 | 1497.00<br>2298.00 | 31.17<br>31.17 | 44.95<br>46.72 |              | 45.05<br>46.77    |                       | 2.65<br>2.13       | 817.16<br>2147.96     | 547.40<br>920.16 |              |
| raymonoville<br>raymondville | Reach 8            | 194636           | 5757.00            | 31.17          | 50.94          |              | 50.95             |                       | 1.23               |                       | 4365.30          |              |
| - Price or the               | - Industria        | 18-43-0          | 3737.00            | 31.11          | 34.04          |              |                   |                       | 1.23               | 12707,00              | 7505.30          | 0.56         |
| raymondville                 | Reach 8            | 193324           | 831.00             | 30.77          | 42.15          | 35.21        | 42.22             | 0.000322              | 2.23               | 372.69                | 55.51            | 0.15         |
| raymondville                 | Reach 8            | 193324           | 1497.00            | 30.77          | 44.37          | 36.81        | 44.50             | <del></del>           | 2.96               |                       | 64.39            |              |
| raymondville                 | Reach 8            | 193324           | 2298.00            | 30.77          | 46.11          | 38.25        | 46.32             | 0.000621              | 3.68               |                       | 71.35            |              |
| raymondville                 | Reach 8            | 193324           | 5757.00            | 30.77          | 50.79          |              |                   | +                     | 2,50               |                       | 2922.12          |              |
|                              | - Francisco        |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 192642           | 831.00             | 30.57          | 41.93          | 35.01        | 42.00             |                       | 2.24               |                       | 55.43            |              |
| raymondville                 | Reach 6            | 192642           | 1497.00            | 30.57          | 44.04          | 36.61        | 44.18             | <del></del>           | 3.01               |                       | 63.88            |              |
| rsymondville                 | Reach B            | 192642           | 2298.00            | 30.57          | 45.65          | -            | 45.88             |                       | 3,79               | ·                     | 70.33            | <del></del>  |
| rsymondville ·               | Reach 8            | 192642           | 5757.00            | 30.57          | 49.92          | 42.20        | 50.50             | 0.001295              | 6,11               | 942.63                | 87.41            | 0.33         |
|                              | Davit 6            | 404427           | 80.00              |                | 44 64          | -            | 41.51             | 0.000000              |                    | 369.11                |                  |              |
| raymondville                 | Reach 8            | 191137           | 831.00             | 30.12<br>30.12 | 41.43<br>43.26 |              | 41.51             | · <del> </del>        | 2,25               |                       | 55.25<br>62.56   |              |
| rsymondville                 | Reach 8            | 191137           | 1497.00<br>2298.00 | 30.12          |                | <del></del>  | 43.41             |                       | <del></del>        |                       | 62.56<br>67.44   | <del></del>  |
| rsymondville                 | Reach 8            | 191137           | 5757.00            | 30.12          |                | +            | 47.76             |                       | <del></del>        |                       |                  | <del></del>  |
| · eyencercrising             | nowal o            | 101101           | 3,37.00            | 30.12          | 70.//          | <del> </del> | 4,,,0             | 0.002040              | 1,30               | 721.00                | 70.01            | 0.40         |
| rsymondville                 | Reach 8            | 188680           | 831.00             | 29.38          | 40.78          |              | 40.83             | 0.000233              | 1.90               | 685.59                | 447.56           | 0.13         |
| raymondville                 | Reach 8            | 188680           | 1497.00            | 29.38          |                | <del></del>  | 42.82             | +                     |                    |                       | 843.88           |              |
| raymondville                 | Reach 8            | 188680           | 2298.00            | 29.38          |                |              | 44.19             |                       | <del></del>        | <del></del>           |                  |              |
| raymondville                 | Reach 8            | 188680           | 5757.00            | 29.38          |                |              | 46.84             |                       |                    |                       |                  |              |
|                              |                    | 1 1 1 1          |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 187150           | 831.00             | 28.92          | 40.33          |              | 40.41             | 0.000317              | 2.22               | 374.76                | 55.67            | 0.15         |
|                              |                    |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |

|                            | Reach              | River Sta        | Q Total            | Min Ch El      | W.S. Elev | Crit W.S. | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area         | Top Width      | Froude # Chl   |
|----------------------------|--------------------|------------------|--------------------|----------------|-----------|-----------|----------------|------------|--------------|-------------------|----------------|----------------|
| raymondville               | Reach 8            | 187150           | (cfs)              | (ft)           | (ft).     | (ft)      | (ft)           | (R/M)      | (fl/s)       | (\$q ft)          | (ft)           | F-876, 1471-15 |
| aymondville                | Reach 8            | 187150           | 1497.00<br>2298.00 | 28.92<br>28.92 | 42.33     |           | 42.47          | 0.000492   | 3.03         | 493.91            | 63.66          | 0.1            |
| aymondville                | Reach 8            | 187150           | 5757.00            | 28.92          | 43.64     |           | 43.88          | 0.000753   | 3.96         | 580.41            | 68.88          | 0.2            |
| Talkia ya Malaka           |                    |                  | 0/3/.00            | 20.92          | 40.05     |           | 46.47          | 0.001144   | 5.63         | 1804.72           | 742.81         | 0.3            |
| aymondville                | Reach 6            | 187100           | 831.00             | 28.91          | 40.32     |           | 40,39          | 0.000318   | 2.22         | 374,38            | . EF.C4        |                |
| eymondville                | Reach 8            | 187100           | 1497.00            | 28.91          | 42.31     |           | 42.45          | 0.000318   | 3.04         | 492,93            | 55.64<br>63.60 | 0.1            |
| aymondville                | Reach 8            | 187100           | 2298.00            | 28.91          | 43.60     |           | 43.85          | 0.000758   | 3.97         | 578,97            | 68,80          | 0.1            |
| aymondville                | Reach 8            | 187100           | 5757.00            | 28.91          | 46.02     |           | 46.41          | 0.001207   | 5.76         | 1747.47           | 729.26         | 0.2            |
|                            |                    | BELFINEN WA      |                    |                |           |           |                | 0.001207   | 0.70         | 1171.41           | 729.20         | 0.3            |
| aymondville                | Reach 8            | 184550           | 831.00             | 28.14          | 39.51     |           | 39.59          | 0.000316   | 2.21         | 417.62            | 271.86         | 0.1            |
| aymondville                | Reach 8            | 184550           | 1497.00            | 28.14          | 42.07     |           | 42.08          | 0.000059   | 1.16         | 3439.76           | 1927.66        | 0.0            |
| aymondville                | Reach 8            | 184550           | 2298.00            | 28.14          | 43.59     |           | 43.59          | 0.000026   | 0.86         | 6661.29           | 2342.67        | 0.0            |
| aymondville                | Reach 8            | 184550           | 5757.00            | 28.14          | 46.07     |           | 46.07          | 0.000029   | 1.04         | 13860.39          | 3648.47        | 0.0            |
|                            | i iyudada x        | 4.545.797.70     |                    |                |           |           |                |            |              |                   |                |                |
| aymondville                | Reach 8            | 184500           | 831.00             | 28,13          | 39.50     |           | 39.57          | 0.000317   | 2.21         | 413.97            | 260.76         | 0.1            |
| aymondville                | Reach 8            | 184500           | 1497.00            | 28.13          | 42.06     |           | 42.07          | 0.000059   | 1.16         | 3434.16           | 1926.88        | 0.0            |
| aymondville                | Reach 8            | 184500           | 2298.00            | 28.13          | 43.59     |           | 43.59          | 0.000026   | 0.86         | 6658,77           | 2341.96        | 0.0            |
| aymondville                | Reach 8            | 184500           | 5757.00            | 28.13          | 46.07     |           | 46.07          | 0.000029   | 1.04         | 13855.65          | 3647.85        | 0.0            |
| 200 - 100 Test.            | 4                  |                  |                    |                |           |           |                |            |              |                   |                |                |
| aymondville                | Reach 8            | 183033           | 831.00             | 27.66          | 38.99     | 32.10     | 39.07          | 0.000328   | 2.25         | 369.86            | 55.31          | 0.1            |
| symondville<br>symondville | Reach 8<br>Reach 8 | 183033<br>183033 | 1497.00            | 27.56          | 41.81     | 33.70     | 41.90          | 0.000273   | 2.46         | 870.11            | 390.26         | 0.1            |
| rymondville                | Reach 8            | 183033           | 2298,00            | 27.66          | 43.43     | 35.14     | 43.50          | 0.000220   | 2.48         | 1862.21           | 589.07         | 0.1            |
| June MAIN                  | - XOLUI O          | 100000           | 5757.00            | 27.66          | 45.85     | 39.29     | 45.95          | 0.000337   | 3.52         | 3609.69           | 1136.75        | 0.1            |
| ymondville                 | Reach 6            | 181219           | 831.00             | 27.11          | 38.38     |           | 20 40          | 0.00000    | 0.00         |                   |                |                |
| ymondville                 | Reach 8            | 181219           | 1497.00            | 27.11          | 41.27     |           | 38.46<br>41.37 | 0.000335   | 2.26         | 366,96            | 55,10          | 0.1            |
| ymondville                 | Reach 8            | 181219           | 2298.00            | 27.11          | 43.00     |           | 43.08          | 0.000320   | 2.59<br>2.55 | 752.69<br>1753.26 | 327.91         | 0.1            |
| ymondville                 | Reach 8            | 181219           | 5757.00            | 27.11          | 45.36     |           | 45.42          | 0.000243   | 2.92         | 4650.96           | 879.75         | 0.1            |
|                            | 1 3 3 3 3 3 3 3    | 14 (130 A 175)   | 3,0,,00            |                | 10.00     |           | 45.42          | 0.000243   | 2.92         | 4030.90           | 1531.27        | 0.1            |
| ymondville                 | Reach 8            | 179129           | 831.00             | 26,49          | 37.67     |           | 37.75          | 0.000349   | 2,30         | 361,61            | 54.71          | 0,1            |
| ymondville                 | Reach 8            | 179129           | 1497.00            | 26.49          | 40.76     |           | 40.81          | 0.000214   | 2.14         | 1475.93           | 1351.31        | 0.1            |
| rymondville                | Reach 8            | 179129           | 2298.00            | 26.49          | 42.87     |           | 42.8B          | 0.000042   | 1.10         | 5675.07           | 2510.56        | 0.0            |
| rymondville                | Reach 8            | 179129           | 5757.00            | 26.49          | 45.25     |           | 45.25          | 0.000034   | 1.13         | 12157.70          | 3317.94        | 0.0            |
|                            | i Pagniri          | 医中部分别            |                    |                |           |           |                |            |              |                   | 33 (11.24      | 0.0            |
| ymondville                 | Reach 8            | 178000           | 831.00             | 26.15          | 37.27     | 30.59     | 37.35          | 0.000357   | 2.32         | 358.36            | 54.47          | 0.1            |
| ymondville                 | Reach 8            | 178000           | 1497.00            | 26.15          | 40.38     | 32.19     | 40.50          | 0.000365   | 2.73         | 557.67            | 124.20         | 0.1            |
| rymondville                | Reach 8            | 178000           | 2298.00            | 26.15          | 42.67     | 33.63     | 42.77          | 0.000269   | 2.76         | 1342.23           | 1666.24        | 0.1            |
| rymondville                | Reach 6            | 178000           | 5757.00            | 26.15          | 45.17     | 37.77     | 45.19          | 0.000094   | 1.87         | 8928.33           | 3610.65        | 0.0            |
|                            |                    | 34 (TXP, 1811)   |                    |                |           |           |                |            |              |                   |                |                |
| ymondville                 | Reach 8            | 177727           | 831.00             | 26.07          | 37.17     | 30.51     | 37.25          | 0.000360   | 2.33         | 357.38            | 54.40          | 0.1            |
| rymondville                | Reach 8            | 177727           | 1497.00            | 26,07          | 40.28     | 32.11     | 40.40          | 0.000371   | 2.74         | 551.94            | 100.27         | 0.1            |
| ymondville                 | Reach 8            | 177727           | 2298.00            | 26.07          | 42.59     | 33.55     | 42.70          | 0.000277   | 2.79         | 1302.86           | 1622.75        | 0.1            |
| ymondville                 | Reach 8            | 177727           | 5757.00            | 26.07          | 45.15     | 37.69     | 45.17          | 0.000096   | 1.90         | 8836.10           | 3604.03        | 0.0            |
|                            | B - 2-0 A          |                  |                    |                |           |           |                |            |              |                   |                |                |
| rymondville                | Reach 8            | 175705           | 831.00             | 25.46          | 36.42     | 29.90     | 36.50          | 0.000382   | 2.38         | 349.66            | 53.83          | 0.1            |
| ymondville<br>ymondville   | Reach 8            | 175705           | 1497.00            | 25.46          | 39.50     | 31.50     | 39.62          | 0.000398   | 2.80         | 534.47            | 66.15          | 0.1            |
| rymondville                | Reach 8            | 175705           | 2298.00            | 25.46          | 41.99     | 32.94     | 42.10          | 0.000313   | 2.84         | 1213.69           | 551.88         | 0.1            |
| Autoridano                 | Treach o           | 110100           | 5757.00            | 25.46          | 44.72     | 37.08     | 44.83          | 0.000328   | 3.42         | 3480.51           | 1068,56        | 0,1            |
| ymondville                 | Reach 8            | 175125           | 831.00             | 25.28          | 36.19     | 29.71     | 20.20          | 0.000200   |              | 2.7.4.            |                |                |
| ymondville                 | Reach 8            | 175125           | 1497.00            | 25.28          | 39.26     | 31.32     | 36.28<br>39.39 | 0.000389   | 2.39         | 347.25            | 53.65          | 0.1            |
| ymondville                 | Reach 8            | 175125           | 2298.00            | 25.28          | 41.79     | 32.76     | 41.91          | 0.000408   | 2.82         | 530.83            | 65.93          | 0.1            |
| ymondville                 | Reach 8            | 175125           | 5757.00            | 25.28          | 44.50     | 36.91     | 44.63          | 0.000369   | 2.93         | 1121.47           | 503.47         | 0.1            |
|                            |                    |                  |                    |                | 17.00     | 30.01     | 77.03          | 0.00009    | 3.60         | 3261.63           | 1024.69        | 0.1            |
| ymondville                 | Reach 8            | 173765           | 831.00             | 24.88          | 35,64     |           | 35.74          | 0.000414   | 2.45         | 339.31            | 53.06          | 0.1            |
| rymondville                | Reach 8            | 173765           | 1497.00            | 24.88          | 38.69     |           | 38.82          | 0.000430   | 2.88         | 519.52            | 65.24          | 0.1            |
| ymondville                 | Reach 8            | 173765           | 2298.00            | 24.88          | 41.27     |           | 41.42          | 0.000391   | 3.16         | 880.94            | 318.55         | 0.1            |
| ymondville                 | Reach 8            | 173765           | 5757.00            | 24.88          | 43.73     |           | 43.97          | 0.000618   | 4.61         | 2442.72           | 938.67         | 0.2            |
|                            | New York Pro-      |                  |                    |                |           |           |                |            |              |                   |                |                |
| ymondville                 | Reach 8            | 171741           | 831.00             | 24.27          | 34.75     |           | 34.85          | 0.000467   | 2.56         | 324.32            | 51.91          | 0.1            |
| ymondville                 | Reach 8            | 171741           | 1497.00            | 24.27          | 37.76     |           | 37.90          | 0.000478   | 3.00         | 499.08            | 63.97          | 0.1            |
| ymondville                 | Reach 8            | 171741           | 2298.00            | 24.27          | 40.36     |           | 40.54          | 0.000484   | 3.37         | 722.46            | 240.52         | 0.2            |
| ymondville                 | Reach 8            | 171741           | 5757.00            | 24.27          | 42.93     |           | 43.02          | 0.000335   | 3.30         | 4140.50           | 1657.83        | 0.1            |
|                            |                    | 1747             |                    |                |           |           |                |            |              |                   |                |                |
| ymondville                 | Reach 8            | 171891           | 831.00             | 24.25          | 34.73     |           | 34.83          | 0.000467   | 2.56         | 324.25            | 51.90          | D.1            |
| ymondville                 | Reach 8            | 171691           | 1497.00            | 24.25          | 37.74     |           | 37.88          | 0.000478   | 3.00         | 498.97            | 63.96          | 0.1            |
| mondville                  | Reach 8            | 171891           | 2298.00            | 24.25          | 40.34     |           | 40.52          | 0.000485   | 3.37         | 719.14            | 223.07         | 0.2            |
| mondville                  | Reach 8            | 171691           | 5757.00            | 24.25          | 42.90     |           | 42.99          | D.000343   | 3.33         | 4097.04           | 1655.17        | 0.1            |
| vmondella                  | Danch 9            | 160740           | 874.00             |                |           |           |                |            |              |                   |                |                |
| ymondville                 | Reach 8            | 169710           | 831.00             | 23.66          | 33.69     |           | 33.81          | 0.000567   | 2.75         | 301.69            | 50.14          | 0.2            |
| mondville                  | Reach 8            | 169710           | 1497.00            | 23.66          | 36.70     |           | 36.86          | 0.000560   | 3.18         | 470.54            | 62.16          | 0.2            |
| mondville<br>mondville     | Reach 8            | 169710           | 2298.00            | 23.66          | 39.28     |           | 39.48          | 0.000570   | 3.57         | 644.01            | 72.47          | 0.2            |
| mondville                  | Reach 8            | 169710           | 5757.00            | 23.66          | 42.17     |           | 42.27          | 0.000389   | 3.48         | 3963.60           | 1756.63        | 0.1            |
| ymondville                 | Reach 8            | 169304           | 1522.00            | 22.00          | 22.00     |           |                | 0.000      |              |                   |                |                |
| mondville                  | Reach 8            | 168304           | 1523.00<br>2763.00 | 23.63          | 33.08     |           | 33.19          | 0.000392   | 2.65         | 575.29            | 79.79          | 0.1            |
| mondville                  | Reach 8            | 168304           | 4255.00            |                | 35.98     |           | 36.15          | 0.000472   | 3.35         | 823.57            | 91.40          | 0.2            |
|                            | Literari D         |                  |                    | 23.63          | 38.43     |           | 38.68          | 0.000557   | 4.02         | 1059.71           | 101.21         | 0.2            |
| mondville                  | Reach 8            | 168304           | 9289.00            | 23.63          | 41.73     |           | 41.82          | 0.000282   | 3.28         | 9136.51           | 5933.98        | 0.1            |

HEC-RAS Plan. P. 50% D. (Continued) W.S. Elev Min Ch El Reach Q Total River Sta Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width | Froude # Chl (cfs) **(ft)** (ft) (ft) (ft) (fVft) (ft/s) (sq ft) raymondville Reach 8 187456 1523.00 23.54 32.72 0.000436 2.75 553.90 78.71 0.18 raymondville Reach 8 167458 2763.00 23.54 35.54 35.73 0.000527 3.49 791.98 90.00 0.21 raymondville Reach 8 167456 4255.00 23.54 37.90 38,18 0.000626 4.19 1016.09 99 47 0.23 raymondville Reach 8 167456 9289.00 23.54 41.52 0.000248 3.08 9631.57 5821.31 0.15 aymondville 166128 Reach 8 1523.00 23 41 32.05 32.19 0.000544 2.97 512.27 76.56 0,20 raymondville Reach 8 166128 2763.00 23.41 34.73 34.95 0.000658 3.78 731.31 87.26 0.23 raymondville Reach 8 166128 4255.00 23 41 36.92 37.24 0.000795 4.56 932.10 96.03 0.26 raymondville Reach 8 166128 9289.00 23.41 41.13 41.22 0.000312 8867.73 3.40 6000.00 0.17 raymondville 166078 Reach 8 1523.00 23.40 32.02 32.16 0.000549 2.98 510.87 76.49 0.20 raymondville Reach 8 188078 2763.00 23.40 34.69 34.91 0.000663 3.79 729.16 87.16 0.23 raymondville Reach 8 166078 4255.00 23.40 36.87 37.20 0.000802 4.58 928.97 95.89 0.26 raymondville Reach 8 166078 9289.00 23.40 41.10 41.20 0.000325 3.47 8689.01 6000.00 0.17 164919 raymondville reach 2 671.00 22.94 31.79 31.81 0.000097 1.27 528.14 77.39 0.09 184919 raymondville reach 2 1363.00 22.94 34.39 34.45 0.000153 1.83 743.38 87.81 0.11 raymondville 164919 reach 2 2177.00 22.94 36,52 36.60 0.000204 2.32 939.22 96.32 0.13 raymondville reach 2 164919 8918.00 22.94 40.66 40.77 0.000424 3.50 5282.25 3407.14 0.19 raymondville reach 2 164431 671.00 22.89 31.74 31.77 0.000097 1.27 528.29 77.39 0.09 raymondville reach 2 164431. 1363.00 22.89 34.32 34.37 0.000156 1.84 741.17 88.70 0.11 raymondville 184431. reach 2 2177.00 22.89 38.41 36.50 0.000215 2.31 940.47 101.27 0.13 rzymondväle reach 2 164431. 8918.00 22.89 40.46 40.57 0.000411 5767.42 3.46 3779.35 0.19 raymondville reach 2 163943. 671.00 22.85 31.69 31.72 0.000097 1.27 527.87 77.39 0.09 raymondville reach 2 163943. 1363.00 22.85 34.24 34.29 0.000156 1.85 737.94 87.58 0.11 raymondville reach 2 163943. 2177.00 22.85 36.31 36,39 0.000218 2.34 929.68 98.42 0.13 raymondville reach 2 163943. 8918.00 22.85 40.30 40.38 0.000325 3.02 6826.63 4310.54 0.17 raymondville reach 2 163456 671.00 22.80 31.65 24.72 31.67 0.000097 1.27 77.39 528.02 0.09 raymondville reach 2 163456 1363.00 22.80 34.16 25.83 34 22 0.000158 1.85 735.47 87.46 0.11 raymondville reach 2 163456 2177.00 0.000214 22.80 36.20 26.87 36.29 2.36 922.14 860.16 0.13 raymondville reach 2 163456 8918.00 40.20 22.80 32.33 40.24 0.000223 2.40 9258.84 5396.27 D.14 reach 2 181457 671.00 22,59 31.45 31 48 0.000096 1.27 529.25 77.45 0.09 raymondville reach 2 161457 1363.00 22.59 33.83 33.89 0.000164 1.88 86.97 725.02 0.11 raymondville reach 2 161457 2177.00 22.59 35.88 35 91 0.000159 2.03 1575.87 1020.42 0.12 raymondville reach 2 161457 8918.00 22.59 40.10 40.11 0.000028 1.04 14962.00 6000.00 0.05 raymondville reach 2 159438 671.00 22.38 31.26 31 28 0.000096 1.26 530.50 77.51 0.09 raymondville reach 2 159438 1363.00 22.38 0.000172 33.49 33.54 1.91 713.23 86.43 0.12 raymondville reach 2 159438 2177.00 22.38 35.42 35.52 0.000238 2.45 888.20 94.1B 0.14 raymondville reach 2 159438 8918.00 22.38 39.96 39.99 0.000160 2.42 9714.32 5982.77 0.12 rzymondville reach 2 157410 671.00 22,18 31.06 31.09 0.000095 1.26 530.99 77.54 0.09 raymondville reach 2 157410 1363.00 22.18 33.13 33.19 0.000181 1.95 699.48 85.79 0.12 raymondville reach 2 157410 2177.00 22.18 34.91 35.01 0.000261 2.53 859.10 92.93 0.15 raymondville 157410 8918.00 22.18 38.55 39.21 0.001420 6.76 2042.48 2416.53 0.35 raymondville 157293.\* reach 2 671.00 22.17 31.05 31.08 0.000096 1.25 530.90 77.53 0.09 raymondville reach 2 157293.\* 1363.00 33.11 22.17 33.16 0.000182 1 95 698.43 85.74 0.12 raymondville reach 2 157293. 2177.00 22.17 34.88 34.98 0.000263 2.54 856.85 92.84 0.15 8918.00 reach 2 157293. 22.17 38.44 39.01 0.001460 6.46 2369.00 2732.65 0.35 reach 2 157176.\* 671.00 22.16 31.04 31.07 0.000096 1.26 530 83 77.53 0.09 raymondville reach 2 157176.\* 1363.00 22.16 33.08 33.14 0.000183 1 95 697.41 85.70 0.12 raymondville reach 2 157178. 2177.00 22.16 34.85 34.95 0.000265 2.55 854 65 92.75 0.15 raymondville 157178.\* reach 2 8918.00 22.16 38.38 38.81 0.001265 5.83 3057.09 3793.86 0.33 raymondville reach 2 157059 671.00 22.14 31.03 31.06 0.000095 1.26 531.47 77.56 0.08 raymondväle reach 2 157059. 1363.00 22.14 33.06 33.12 0.000183 1.96 697.15 85 68 0.12 raymondville reach 2 157059.\* 2177.00 22.14 34.81 34.91 0.000276 2.55 855.37 96.41 0.15 raymondville reach 2 157059.1 8918.00 22.14 38.43 38.64 0.000730 4.59 4968 48 6000.00 0.25 raymondville reach 2 158942 671.00 22.13 31.02 31.04 0.000095 1.26 531.40 77.58 0.09 raymondville reach 2 156942.\* 1363.00 22.13 33.04 33.10 0.000187 1.95 697.48 87 44 0.12 raymondville mach 2 158942 2177.00 22.13 34.78 34.88 0.000274 2.54 857.36 96.51 0.15 raymondville reach 2 156942 8918.00 22.13 38.47 38.55 0.000304 3.12 7592.00 6000,00 0.16 reach 2 raymondville 158825 671.00 22.12 31.01 31.03 531.31 0.000095 1.26 77.55 0.09 raymondville reach 2 156825 1363.00 22.12 33.02 33.08 0.000184 1.96 695.09 85.58 0.12 raymondville reach 2 156825 2177.00 22.12 34.74 34.84 0.000270 2.56 848.79 92 49 0.15 raymondville reach 2 156825 8918.00 22.12 38.47 38.50 0.000156 2.33 9896.59 6000.00 0.12 raymondville reach 2 155106 671.00 21.94 30.84 30.86 0.000095 1.26 531.93 77.58 0.08 raymondville

reach 2

reach 2

reach 2

raymondville

raymondville

155106

155106

155108

1363,00

2177.00

8918.00

21.94

21.94

21.94

32.69

37.92

32.75

34.36

38.06

0.000194

0.000297

0.000491

2.00

2.66

4.02

582.49

819.94

5731.63

84.99

91.23

4556.87

0.12

0.16

HEC-RAS Plans P 50% D (Continued) Q Total Min Ch El W.S. Elev E.G. Slope Crit W.S. E.G. Elev Vel Chnl. Flow Area Top Width Froude # Chl Reach River Sta (cfs) (ft) (ff) (ft) (ft) (fl/fl) (ft/s) (sq ft) 153062 671.00 raymondville reach 2 21.73 30.64 30.67 0.000094 1.26 533 21 77.65 0.08 32.27 raymondville reach 2 153062 1363.00 21.73 32.34 0.000209 2.05 665.15 84.17 0.13 raymondville reach 2 153062 2177.00 21.73 33.58 33.71 0.000342 2.79 778.94 89.42 0.17 raymondville reach 2 153062 8918.00 21.73 37.36 37.41 0.000207 2.67 6461.61 2350.51 0.14 151635 671.00 21.59 30.50 30.53 raymondville reach 2 0.000094 1.26 533 21 77.65 0.08 raymondville reach 2 151635 1363.00 21.59 31.96 32.03 0.000222 2.10 650.47 83 47 0.13 raymondville reach 2 151635 2177.00 21.59 33 04 33 17 0.000390 2.93 743 24 87.81 0.18 raymondville reach 2 151635 8918.00 21.59 36.83 36.97 0.000489 4.00 4256.13 1820.58 0.21 raymondville reach 2 150792 942.00 21.50 30.35 30 40 0.000191 1 78 528.30 77.40 0.12 raymondville reach 2 150792 1823.00 21.50 31.63 31.76 0.000433 2.89 630.80 82.53 0.18 raymondville reach 2 150792 2704 00 21.50 32.50 32.73 0.000701 3 84 703 RA 85.99 0.24 raymondvilla reach 2 150792 9738.00 21.50 36.44 31.53 36.55 0.000485 3.91 5644.83 3282.83 0.21 raymondville reach 2 149670 787.00 21.30 30.17 30.21 0.000132 1.48 530 09 77 49 0.10 raymondville reach 2 149870 1264.00 21.30 31.30 31,37 0.000218 2.04 620.36 82.02 0.13 raymondville reach 2 149670 1810.00 21.30 31.98 32.09 0.000351 2.68 676.39 84 71 0.17 raymondville reach 2 149670 6269,00 21.30 34.98 29.06 35.66 0.001633 6.59 1016.56 1023.39 0.37 149620 787.00 21.29 raymondville reach 2 30.17 30,20 0.000132 1.48 530.35 77.50 0.10 149620 raymondville reach 2 1264.00 21.29 31.29 31.36 0.000218 2.04 620.28 82 01 0.13 reach 2 raymondville 149820 1810.00 21.29 31.96 32.07 0.000352 2.68 675.73 84.67 0.17 149820 29.05 raymondville reach 2 6269.00 21.29 34.89 35.58 0.001679 6.66 943.72 337.32 0.38 21.09 raymondville reach 2 147620 787.00 29.89 29.92 0.000136 1.50 524.44 77.20 0.10 raymondville reach 2 147620 1264.00 21.09 31.16 31.16 0.000051 0.99 3594.70 2960.94 0.06 147620 raymondville reach 2 1810.00 21.09 31.88 31.89 0.000033 0.82 5771,46 3035.70 0.05 147620 raymondville reach 2 6269.00 21.09 35.29 35.29 0.000012 0.64 21798.52 6000.00 0.03 145820 787.00 20.88 29.65 0.000140 1.52 519.21 0.10 raymondville reach 2 29.61 76.92 145620 20.88 31.04 31,05 0.000060 2967.47 raymondville reach 2 1264.00 1.08 3295.58 0.07 145620 raymondville reach 2 1810.00 20.88 31.81 31.82 0.000035 0.86 5613.27 3042.87 0.05 0.64 145620 20.88 0.000012 raymondville reach 2 6269.00 35.26 35.26 22079.83 6000.00 0.03 20.57 29.19 raymondville reach 2 142669 787.00 29.23 0.000147 1.54 510.55 76.48 0.11 142669 631,80 raymondville reach 2 1264.00 20.57 30.71 30.78 0.000207 2.00 82.57 0.13 142669 1810.00 raymondville reach 2 20.57 31.50 31.61 0.000321 2.59 698 25 85.73 0.16 raymondville reach 2 142669 6269.00 20.57 34.66 35,12 0.001144 5.71 1870.85 1749.73 0.31 1.54 0.11 142619 787.00 20.57 29.18 0.000147 509.98 76.44 raymondville reach 2 29.22 142619 1264.00 0.13 raymondville reach 2 20.57 30.70 30,77 0.000208 2.00 630.92 82,53 1810.00 696.82 raymondville mach 2 142619 20.57 31.49 31.59 0.000323 2.60 85.67 0.16 raymondville reach 2 142619 6269.00 20.57 34.55 35.05 0.001245 5.91 1689,91 1599.25 0.33 140677 20.38 28.88 28.92 0.000154 1.57 501.48 76.00 0.11 raymondville reach 2 787.00 1827.71 raymondville reach 2 140677 1264.00 20.38 30.34 30.39 0.000183 1,86 1204.57 0.12 20.38 1.50 2886.29 1912.18 0.09 raymondville reach 2 140677 1810.00 31.24 31.26 0.000109 0.000040 raymondville reach 2 140677 6269.00 20.38 34.72 34.72 1.07 13492.55 4418.35 0.06 28.60 0.000162 1.60 493.10 75.56 0.11 138658 787.00 20.17 28.56 raymondville reach 2 29.96 138658 1264.00 20.17 29.89 0.000243 2.12 597,44 80.89 0.14 raymondville reacti 2 138658 30.99 0.000135 2643.08 2100.07 0.10 raymondville reach 2 1810.00 20.17 31.02 1.67 0.04 raymondville reach 2 138658 6269.00 20.17 34.66 34.67 0.000020 0.82 18833.83 5933.19 reach 2 138000 787.00 20.10 28,45 28,49 0.000165 1.61 490.25 75.41 0.11 raymondville 138000 1264.00 20.10 29.73 29.80 0.000252 2.14 589.82 80.51 0.14 raymondville reach 2 1810.00 30.77 30,68 0.000352 2.68 675.56 84.67 0.17 138000 20.10 raymondville reach 2 6973.89 3.00 6000.00 0.16 raymondville reach 2 138000 6269.00 20.10 34.51 34.58 0.000304 1.61 489.61 75.37 0.11 137950 787.00 20.10 28.44 28.48 0.000165 raymondville reach 2 Q.14 1264.00 20.10 29.72 29.79 0.000253 2.15 588.78 80.46 137950 raymondville reach 2 137950 1810.00 20.10 30.75 30.86 0.000355 2.69 674.00 84.59 0.17 raymondville reach 2 reach 2 137950 6269.00 20.10 34.50 34.57 0.000308 3.02 6922.23 6000.00 0.16 raymondville 136663 787.00 20.09 28.22 28.26 0.000182 1.66 0.12 raymondville reach 2 20.09 29.36 29.44 0.000290 2.25 561.19 79.08 0.15 136663 1264.00 reach 2 raymondville 20.09 30.40 30.46 0.000251 2.25 2046.72 3581.38 0.14 raymondville 136663 1810.00 reach 2 34.49 34.49 0.000014 0.70 21724.92 6000.00 0.04 136663 20.09 6269.00 raymondville reach 2 877.69 134689 787.00 19.96 27.89 27.92 0.000153 1.51 1036.26 0.11 raymondville reach 2 3873.69 0.05 134669 1264.00 19.96 29.27 29.27 0.000032 0.79 4658.17 raymondville reach 2 10593.80 5961.92 0.03 raymondville reach 2 134669 1810.00 19.96 30.39 30.39 0.000012 0.53 0.02 134669 6269.00 19.96 0.000003 0.36 35156.31 6000.00 raymondville reach 2 132609 787.00 19.75 27.81 27.81 0.000023 0.64 2918.45 1533.25 0.04 reach 2 raymondville 7624.43 4786.89 0.03 1264.00 19.75 29.22 29.23 0.000012 0.52 132609 raymondville reach 2 132609 1810.00 30.38 30.38 0.000006 0.39 13540.18 5921.56 0.02 raymondville reach 2

| River                                    | Reach                                     | River Sta  | Q Total<br>(cfs)   | Min Ch El      | W.S. Elev      | Crit W.S. | E.G. Elev      | E.G. Slope | Vei Chni | Flow Area           | Top Width          | Froude # Chl |
|--|---|------------|--------------------|----------------|----------------|-----------|----------------|------------|----------|---------------------|--------------------|--------------|
| raymondville                             | reach 2                                   | 132609     | 6269.00            | (ft)<br>19.75  | (ft)<br>34.47  | (ft)      | (ft)           | (ft/ft)    | (ft/s)   | (sq fi)             | (ft)               |              |
| -,                                       | 1   | 102000     | 0209.00            | 19.73          | 34.47          |           | 34.47          | 0.000003   | 0.33     | 38122.96            | 6000.00            | 0.02         |
| raymondville                             | reach 2                                   | 129500     | 787.00             | 19.43          | 27.73          |           | 27.73          | 0.000041   | 0.86     | 2050.70             |                    |              |
| raymondville                             | reach 2                                   | 129500     | 1264.00            | 19.43          | 29.18          |           | 29.18          |            | 0.70     | 2059.78             | 1193.99            | 0.06         |
| raymondville                             | reach 2                                   | 129500     | 1810.00            | 19.43          | 30.36          |           | 30.36          | 0.000010   | 0.70     | 4915.23<br>9919.65  | 3859.59            | 0.04         |
| raymondville                             | reach 2                                   | 129500     | 6269.00            | 19.43          | 34.47          |           | 34.47          | 0.000004   | 0.44     | 31169.46            | 4556.68<br>5611.03 | 0.03         |
| 2011                                     | 5 Mr. 13                                  |            |                    |                |                |           |                |            |          | 01.00.40            | 3011.03            | 0.02         |
| raymondville                             | reach 2                                   | 129450     | 787.00             | 19.43          | 27.73          |           | 27.73          | 0.000041   | 0.86     | 2057.32             | 1193.29            | 0.08         |
| raymondville                             | reach 2                                   | 129450     | 1284.00            | 19.43          | 29.18          |           | 29.18          | 0.000021   | 0.70     | 4911.13             | 3856.08            | 0.04         |
| raymondville                             | reach 2                                   | 129450     | 1810.00            | 19.43          | 30.36          |           | 30.36          | 0.000010   | 0.51     | 9917,47             | 4556.44            | 0.03         |
| raymondville                             | reach 2                                   | 129450     | 6269.00            | 19.43          | 34.46          |           | 34.46          | 0.000004   | 0.44     | 31121.15            | 5610.61            | D.02         |
|  |   | 40         |                    |                |                |           |                |            |          |                     |                    |              |
| raymondville<br>raymondville             | reach 2                                   | 127700     | 787.00             | 19.25          | 27.64          |           | 27.65          | 0.000063   | 1.08     | 1380.91             | 718.09             | 0.07         |
| raymondville                             | reach 2                                   | 127700     | 1264.00<br>1810.00 | 19.25          | 29.13          |           | 29.14          | 0.000041   | 0.98     | 2826.14             | 1145.99            | 0.08         |
| raymondville                             | reach 2                                   | 127700     | 6269.00            | 19.25<br>19.25 | 30.33          |           | 30.33          | 0.000035   | 1.00     | 4594.18             | 2336.10            | 0.06         |
| 1192 334.55                              |   | 127700     | 0209.00            | 19.23          | 34.45          |           | 34.45          | 0.000010   | 0.66     | 22598.80            | 4740.51            | 0.03         |
| raymondville                             | reach 2                                   | 128465     | 787.00             | 19.12          | 27.53          |           | 27.55          | 0.000400   |          |                     |                    |              |
| raymondville: 2                          | reach 2                                   | 126485     | 1264.00            | 19.12          | 29.06          |           | 27.55<br>29.08 | 0.000100   | 1.09     | 959.63              | 409.99             | 0.08         |
| raymondville                             | reach 2                                   | 126465     | 1810.00            | 19.12          | 30.27          |           | 30.28          | 0.000075   | 1.12     | 1847.73             | 975.94             | 0.08         |
| raymondville                             | reach 2                                   | 126465     | 6269.00            | 19.12          | 34.45          |           |                | 0.000054   | 1.06     | 4685,94             | 4387.37            | 0.07         |
| 1 1 10 3000                              | 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 1 10 10 10 |                    | 15.12          | 37,73          |           | 34.45          | 0.000006   | 0.48     | 28352.33            | 6000.00            | 0.02         |
| raymondville                             | reach 2                                   | 124374     | 787.00             | 18.91          | 27.41          |           | 27.42          | 0.000040   | 0.87     | 2010.01             | 4000.5             |              |
| raymondville                             | reach 2                                   | 124374     | 1264.00            | 18.91          | 29.01          |           | 29.02          | 0.000014   | 0.87     | 2216.04<br>5860.52  | 1638.86            | 0.06         |
| raymondville                             | reach 2                                   | 124374     | 1810.00            | 18.91          | 30.25          |           | 30.25          | 0.0000014  | 0.47     | 10624.64            | 2794.08            | 0.03         |
| raymondville                             | reach 2                                   | 124374     | 6269.00            | 18.91          | 34.45          |           | 34.45          | 0.000005   | 0.46     | 30788.52            | 4200.33<br>6000.00 | 0.03         |
|  | 1.1.                                      |            |                    |                |                |           |                | 2.00000    |          | 30700.32            | 8000.00            | 0.02         |
| raymondville                             | reach 2                                   | 124318     | 787.00             | 18.90          | 27.41          |           | 27.42          | 0.000043   | 0.75     | 2214.57             | 1638,54            | 0.06         |
| raymondville                             | reach 2                                   | 124318     | 1264.00            | 18.90          | 29.01          |           | 29.01          | 0.000014   | 0.51     | 5838.29             | 2779.36            | 0.03         |
| raymondville                             | reach 2                                   | 124318     | 1810.00            | 18.90          | 30.24          |           | 30.25          | 0.000008   | 0.42     | 10610.97            | 4199.82            | 0.03         |
| raymondville                             | reach 2                                   | 124318     | 6269.00            | 18.90          | 34,44          |           | 34.45          | 0.000005   | 0.42     | 30781.88            | 6000.00            | 0.02         |
|  | 1 11 1                                    |            |                    |                |                |           |                |            |          |                     |                    |              |
| raymondville                             | reach 2                                   | 122094     | 787.00             | 18.67          | 27.36          |           | 27.36          | 0.000023   | 0.62     | 2850.12             | 1516.27            | 0.04         |
| raymondville                             | reach 2                                   | 122094     | 1264.00            | 18.67          | 28.98          |           | 28.98          | 0.000011   | 0.48     | 5505.84             | 1782.21            | 0.03         |
| raymondville                             | reach 2                                   | 122094     | 1810.00            | 18.67          | 30.23          |           | 30.24          | 0.000009   | 0.48     | 8445.86             | 3654.54            | 0.03         |
| raymondville                             | reach 2                                   | 122094     | 6269.00            | 18.67          | 34.44          |           | 34.44          | 0.000006   | 0.49     | 27925.87            | 5233.10            | 0.02         |
|  |   |            |                    |                |                |           |                |            |          |                     |                    |              |
| raymondville                             | reach 2                                   | 121688.    | 787.00             | 18.63          | 27.32          |           | 27.35          | 0.000127   | 1.43     | 734.52              | 792.20             | 0.10         |
| raymondville                             | reach 2                                   | 121668.*   | 1264.00            | 18.63          | 28.95          |           | 28.96          | 0.000055   | 1.06     | 2680.49             | 1517.40            | 0.07         |
| raymondville                             | reach 2                                   | 121688.*   | 1810.00            | 18.63          | 30.22          |           | 30.23          | 0.000026   | 0.80     | 6095.84             | 3258.54            | 0.05         |
| raymondville                             | reach 2                                   | 121688.*   | 6269.00            | 18.63          | 34,44          |           | 34.44          | 0.000009   | 0.62     | 24545.21            | 5619.88            | 0.03         |
| raymondville                             | reach 2                                   | 121283.*   | 787.00             | 10.50          | 27.00          |           |                |            |          |                     |                    |              |
| raymondville                             | reach 2                                   | 121283.*   | 1264.00            | 18.59          | 27.28          |           | 27.31          | 0.000121   | 1.41     | 701.20              | 273.34             | 0.10         |
| raymondville                             | reach 2                                   | 121283.*   | 1810.00            | 18.59          | 28.90<br>30.21 |           | 28.93          | 0.000120   | 1.56     | 1654.73             | 1505.94            | 0.10         |
| raymondville                             | reach 2                                   | 121283.*   | 6269.00            | 18.59          | 34.44          |           | 30.22          | 0.000044   | 1.02     | 4653.45             | 3013.18            | 0.06         |
|  | Harten Land                               | 12.200     | 5205.50            | 10.53          | 37.77          |           | 34.44          | 0.000012   | 0.69     | 22379.71            | 5560.63            | 0.03         |
| raymondville                             | reach 2                                   | 120877.*   | 787.00             | 18.55          | 27.24          |           | 27.27          | 0.000114   | 107      | 701.00              |                    |              |
| raymondville                             | reach 2                                   | 120877.*   | 1264.00            | 18.55          | 28.89          |           | 28.90          | 0.000014   | 1.37     | 784.82              | 362.31             | 0.09         |
| aymondville                              | reach 2                                   | 120877.*   | 1810.00            | 18.55          | 30.21          |           | 30.22          | 0.00008    | 1.18     | 2615.84             | 1836.20            | 0.07         |
| raymondville                             | reach 2                                   | 120877.*   | 6269.00            | 18.55          | 34.44          |           | 34.44          | 0.000012   | 0.67     | 5247.69<br>20864.48 | 2101.34            | 0.05         |
| 1.4.1                                    | :   | 5 5 5      |                    |                |                |           |                | 0.000012   | - 0.07   | 20004.40            | 5340.95            | B.03         |
| raymondville                             | reach 2                                   | 120472.*   | 787.00             | 18,51          | 27.21          |           | 27.23          | 0.000089   | 1.21     | 1195.00             | 938.08             | 0.08         |
| raymondville /                           | reach 2                                   | 120472.*   | 1264.00            | 18.51          | 28.89          |           | 28.89          | 0.000034   | 0.83     | 3737.94             |                    |              |
| zymondville                              | reach 2                                   | 120472.*   | 1810.00            | 18.51          | 30.21          |           | 30.21          | 0.000017   | 0.64     | 8556.18             | 2030.14            | 0.05         |
| aymondville                              | reach 2                                   | 120472.*   | 6269.00            | 18.51          | 34.44          |           | 34.44          | 0.000010   | 0.59     | 20013.16            | 4549.03            | 0.03         |
|  |   | 4          |                    |                |                |           |                |            |          |                     |                    |              |
| raymondville                             | reach 2                                   | 120087     | 787.00             | 18.47          | 27.20          | 20.60     | 27.21          | 0.000052   | 0.92     | 1940.45             | 1482.05            | 0.06         |
| raymondville                             | reach 2                                   | 120067     | 1264.00            | 18.47          | 28.88          | 21.36     | 28.89          | 0.000017   | 0.59     | 4949.31             | 2082.55            | 0.04         |
| aymondville                              | reach 2                                   | 120067     | 1810.00            | 18.47          | 30.21          | 22.09     | 30.21          | 0.000010   | 0.50     | 8572.85             | 3044.47            | 0.03         |
| aymondville                              | reach 2                                   | 120067     | 6269.00            | 18.47          | 34.44          | 26.87     | 34.44          | 0.000007   | 0.49     | 21469.04            | 3052.93            | 0.02         |
|  |   | - Lugara : |                    |                |                |           |                |            |          |                     |                    |              |
| aymondville                              | reach 2                                   | 119652.*   | 787.00             | 18.43          | 27.19          | 20.56     | 27.20          | 0.000052   | 0.93     | 1844.15             | 1285.33            | 0.06         |
| aymondville :                            | reach 2                                   | 119852.*   | 1264.00            | 18.43          | 28.88          | 21.32     | 28.88          | 0.00001B   | 0.62     | 4811.31             | 2078.38            | 0.04         |
| aymondville                              | reach 2                                   | 119652.*   | 1810.00            | 18.43          | 30.21          | 22.05     | 30.21          | 0.000011   | 0.52     | 8337.05             | 3044.55            | 0.03         |
| aymondville                              | reach 2                                   | 119652.*   | 6269.00            | 18.43          | 34.44          | 26.82     | 34.44          | 0.000007   | 0.51     | 21638.34            | 3857.47            | 0.03         |
| aymondville                              | reach 2                                   | 119237.*   | 787.00             | 10.20          | 27.47          | 20.51     |                |            |          |                     |                    |              |
| aymondville                              | reach 2                                   | 119237.*   | 1264.00            | 18.38          | 27.17          | 20.51     | 27.18          | 0.000053   | 0.95     | 1796.85             | 1251.97            | 0.06         |
| aymondville                              | reach 2                                   | 119237.    | 1810.00            | 18.38          | 28.88          | 21.27     | 28.88          | 0.000020   | 0.65     | 4670.26             | 2072.19            | 0.04         |
| aymondville                              | reach 2                                   | 119237.*   | 6269.00            | 18.38          | 30.20          | 22.00     | 30.20          | 0.000012   | 0.55     | 8100.17             | 3044.64            | 0.03         |
| -711-11-11-11-11-11-11-11-11-11-11-11-11 |   | 1          | 3209.00            | 10.30          | 34.44          | 26.92     | 34,44          | 0.000007   | 0.52     | 23885.00            | 5450.79            | 0.03         |
| aymondville                              | reach 2                                   | 118822.*   | 787.00             | 18.34          | 27.16          | 20.47     | 27.17          | 0.000054   |          | 1753.50             | 40                 |              |
| aymondville                              | reach 2                                   | 118822.*   | 1264.00            | 18.34          | 28.87          | 21.23     | 28.88          |            | 0.97     | 1753.89             | 1237.40            | 0.06         |
| aymondville                              | reach 2                                   | 118822.*   | 1810.00            | 18.34          | 30.20          | 21.23     | 30.20          | 0.000020   | 0.68     | 4582.60             | 2168.81            | 0.04         |
| zymondville                              | reach 2                                   | 118822.*   | 6269.00            | 18.34          | 34.43          | 26.99     | 34.43          | 0.0000012  | 0.58     | 8174.30             | 3328.79            | 0.03         |
|  | 1   | 1          | -200.00            | 10.04          | 37.73          | 20.59     | 37.73          | 0.00000    | 0.51     | 26901.30            | 5725.40            | 0.02         |
|  |   |            |                    |                |                |           |                |            |          |                     |                    |              |
| symondville                              | reach 2                                   | 118407     | 787.00             | 18.30          | 27.15          | 20.43     | 27.16          | 0.000048   | 0.96     | 1893.06             | 1419.20            | 0.06         |

HEC-RAS Plan. P 50% D (Continued) Reach Q Total Min Ch EJ W.S. Elev Cnt W.S. E.G. Elev E.G. Slope Vel Chni River River Sta Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (fl/ft) (ft/s) (8g ff) raymondville reach 2 21.92 1810.00 18.30 30.20 30 20 0.000011 0.57 9127 18 3910.14 0.03 raymondville reach 2 118407 6269.00 18.30 34.43 26.58 34.43 0.000005 0.47 30521.75 6000.00 0.02 raymondville 118184 reach 2 787.00 18.28 27.13 27.14 0.000049 0.95 1870 60 1432 74 0.06 raymondville reach 2 118184 1264.00 18.28 28 87 28.87 0.000017 0.64 5090 58 2343 28 0.04 raymondville reach 2 118184 1810.00 18.28 30.20 30.20 0.000010 0.55 9026 94 3877 38 0.03 raymondville reach 2 118184. 6269.00 18.28 34.43 34.43 0.000005 0.50 28674.48 6000.00 0.02 raymondville reach 2 117962 787.00 18.25 27.12 27.13 0.000051 0.95 1844 45 1449 63 0.06 raymondville reach 2 117962.\* 1264.00 18.25 28.86 28.88 0.000017 0.63 5096.18 2443 60 0.04 raymondville reach 2 117962. 1810.00 18.25 30.20 30 20 0.000009 0.51 9012 02 3285 14 3.03 raymondville 117982. reach 2 6269.00 18.25 34.43 34.43 0.000005 0.50 27451.63 5249.63 0.02 raymondville each 2 117739.\* 787.00 18.23 27.11 27.12 0.000054 1815.30 0.94 1470 51 0.06 raymondville reach 2 117739. 1264.00 28.86 18.23 28,86 0.000017 0.62 5104.73 2467.34 0.04 raymondville 117739.\* 1810.00 18.23 30.19 30.19 0.000009 0.50 9012 45 3275 17 0.03 raymondville reach 2 117739. 6269.00 18.23 34.43 34.43 0.000005 0.49 26895.62 4768 23 0.02 raymondville 117517.\* 787.00 18.20 27.09 27.10 0.000057 0.94 1788.59 1499.68 0.07 raymondville reach 2 1264.00 18.20 28.85 5117.10 28.86 0.000017 2459.94 0.61 0.04 117517.\* reach 2 1810.00 18.20 30.19 30.19 0.000009 0.49 9017.24 3247.21 0.03 raymondville 117517. 6269.00 18.20 34.43 26536.45 34.43 0.000005 4484.41 0.48 0.02 raymondviša each 2 117295 787.00 18.18 27.08 27.09 0.000061 1760.68 1519.68 0.95 0.07 raymondville reach 2 117295 1264.00 18.18 28.85 28.85 0.000017 5142.55 0.59 2436.79 0.04 raymondville reach 2 117295 1810 00 18.18 30.19 30,19 0.48 9025.28 3226.10 0.03 raymondville reach 2 117295 6269.00 18.18 34.43 0.48 26318.72 4393,32 0.02 raymondville mach 2 114850 787.00 17 93 26 84 26.88 77.65 0.000130 1.48 533.13 0.10 raymondville reach 2 114850 1264 00 17.93 28.70 28,75 0.000166 1,85 684.33 85.08 0.11 raymondviša reach 2 114850 1810.00 17.93 30.04 30.12 0.000218 2.26 803.21 141.20 0.13 raymondville reach 2 114850 6269 00 17.93 34.39 34.40 0.000050 1.34 12583,89 5264.93 0.07 114401 787 00 17 88 raymondville reach 2 26 7B 26.82 0.000130 1.44 545.07 82.90 0.10 raymondville reach 2 114401. 1264.00 17.88 28 63 28 68 0.000164 1.79 706.93 92.33 0.11 raymondville reach 2 114401. 1810.00 17.88 29.96 30.03 0.000213 2.17 833.81 99.02 0.13 raymondville reach 2 114401 6269 00 17.88 34.38 34.39 0.000026 0.98 16296.71 5184.22 0.05 113953. 787.00 17.84 raymondville reach 2 26.73 26.78 0.000135 1.42 554.55 89.29 0.10 raymondville 113953 reach 2 1264.00 17.84 28.56 28 61 0.000166 1.73 730.15 101.83 0.11 113953. raymondville reach 2 1810.00 17.84 29.87 29.94 0.000198 2.04 1129.48 1247.91 0.13 raymondville reach 2 113953 6269.00 17 84 34 38 34.38 0.000015 0.76 19707.32 5042.97 0.04 113504 17.79 raymondville reach 2 787.00 26.67 26.70 D 000145 1 40 563 98 98.56 0.10 raymondville reach 2 113504 1264.00 17.79 28 49 28 53 0.000159 1.63 940 55 992.65 0.11 raymondville 113504 1810.00 17.79 reach 2 29.85 29 87 0.000085 1 35 3260 48 2854 36 0.08 113504. raymondville each 2 6269.00 17,79 34.37 34.38 0.000010 0.61 22803.68 4883.94 0.03 raymondville 113056.\* 17.75 reach 2 787.00 26.61 0.000163 26.64 1.36 601.70 307.54 0.11 113056. raymondville 1264.00 reach 2 17.75 28.48 28.49 0.000064 1.04 2511.34 1707.79 0.07 raymondville 113056. 17.75 reach 2 1810.00 29.84 0.77 29.85 0.000027 5920 53 3158.13 0.05 raymondville reach 2 113056.\* 6269.00 17.75 34.37 34.37 0.000006 0.50 25574.71 4717.33 0.02 raymondville reach 2 112608 787.00 17.70 26.58 26.59 0.000083 0.97 1452.85 1161.18 0.08 raymondville 1264.00 17.70 28.47 28.47 4679.64 2444,49 0.000022 0.62 0.04 raymondville reach 2 112608 1810.00 17.70 29.83 29.83 0.000010 8581.92 3199,33 0.48 0.03 raymondville 112608 6269.00 34.37 34.37 28039.99 4547.80 0.000005 0.43 0.02 raymondville 112513. 787.00 17.69 26.55 reach 2 26.58 0.000151 644 53 360.56 0.10 raymondville reach 2 112513. 1264.00 17.69 28.45 28.46 0.000049 0.94 1842.74 2926.38 0.06 raymondville reach 2 112513.\* 1810.00 17.69 29.82 29.82 0.68 6717.32 3300.87 0.04 raymondville reach 2 112513.\* 6269.00 17.69 34.36 34.36 0.000006 0.48 27560.39 5179.79 0.02 raymondville reach 2 112419 787.00 17.69 26.54 26.57 0.000140 1.39 566.08 97.17 0.10 rzymondville reach 2 112419.\* 1264.00 17.69 28.43 28.46 0.000121 1.48 1380.81 1296,41 0.10 raymondville reach 2 112419. 1810 00 17.69 29.81 1.05 4675.87 3375.28 29.82 0.000048 0.06 raymondville reach 2 112419. 6269.00 17.69 34.36 27311.62 5453.20 34.36 0.000006 0.51 0.02 112324. raymondville reach 2 787.00 17.68 26 52 26 55 0.000133 1.43 548 91 85.97 0.10 raymondville reach 2 112324. 1264.00 17.68 28.41 28,46 0.000162 1 75 721.41 96.63 0.11 raymondville reach 2 112324. 1810.00 17.68 29.76 29.80 0.000134 1.76 2338 52 3352.67 0.11 raymondville reach 2 112324. 6269.00 17.68 34,35 34.35 0.000007 0.53 27093.96 5726.60 0.03 112230 raymondville reach 2 787.00 17.67 26.50 26 54 0.000134 1 49 527 18 77.34 0.10 raymondville reach 2 112230 1264.00 17.67 28.39 28 44 0.000169 1.86 679.85 84 87 0.12 112230 raymondville reach 2 1810,00 17.57 29.70 29.78 0.000224 2.28 794.81 90.13 0.14 raymondville mach 2 112230 6269.00 17.67 34.35 34.35 0.000008 0.55 26916.99 6000.00 0.03

110608

787.00

17.50

26.29

26.32

0.000137

1.50

523.67

77.16

0.10

raymondville

reach 2

HEC-PAS Plan- P 50% D (Continued)

| River                                 | Plan• P 50% D<br>Reach                      | River Sta        | Q Total           | Min Ch El      | W.S. Elev      | Crit W.S.   | E.G. Elev | E.G. Slope | Vel Chal    | Flow Area | Top Width    | Froude # Chil |
|---------------------------------------|---|------------------|-------------------|----------------|----------------|-------------|-----------|------------|-------------|-----------|--------------|---------------|
| 21,777 - 2907                         | That are                                    | The second of    | (cfs)             | (ft)           | (ft)           | (ft)        | (ft)      | (fl/ft)    | (fl/s)      | (sq.ft)   | (ft)         |               |
| raymondville                          | reach 2.                                    | 110808           | 1264.00           | 17.50          | 28.11          |             | 28.17     | 0.000175   | 1.88        | 671.06    | 84.45        | 0.12          |
| raymondville                          | reach 2                                     | 110608           | 1810.00           | 17.50          | 29.32          |             | 29.41     | 0.000239   | 2.33        | 776.02    | 89.29        | 0.14          |
| raymondville                          | reach 2                                     | 110608           | 6269.00           | 17.50          | 34.34          |             | 34.34     | 0.000008   | 0.56        | 26858.69  | 6000.00      | 0.03          |
| 1974 (32.0)                           | L 1985 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 315              |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 144530           | 201.00            | 21.30          | 32.28          |             | 32.28     | 0.000004   | 0.29        | 701.91    | 85.90        | 0.02          |
| reymondville                          | reach 3 (south)                             | 144530           | 343.00            | 21.30          | 34.50          |             | 34.50     | 0.000006   | 0.38        | 902.46    | 94.78        | 0.02          |
| raymondville                          | reach 3 (south)                             | 144530           | 528.00            | 21.30          | 36.56          |             | 36.56     | 0.000002   | 0.23        | 6508.89   | 3516.52      | 0.01          |
| raymondville                          | reach 3 (south)                             | 144530           | 1148.00           | 21.30          | 39.18          |             | 39.18     | 0.000001   | 0.17        | 15719.43  | 3516.52      | 0.01          |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Transfer of                                 | 444000           |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 144230           | 201.00<br>343.00  | 21.30          | 32.27          |             | 32.28     | 0.000004   | 0.29        | 701.81    | 85.90        | 0.02          |
|                                       | reach 3 (south)                             |                  |                   |                | 34.49          |             | 34.50     | 0.000006   | 0.38        | 902.30    | 94.78        | 0.02          |
| raymondville                          | reach 3 (south)                             | 144230           | 528.00            | 21.30          | 36.56          |             | 36.56     | 0.000002   | 0.23        | 6507.19   | 3516.52      | 0.01          |
| 1 AYTHORUS                            | reach 3 (south)                             | 144230           | 1148.00           | 21.30          | 39.18          |             | 39.18     | 0.000001   | 0,17        | 15718.71  | 3516.52      | 0.01          |
| raymondville                          | reach 3 (south)                             | 144030           | 201.00            | 26,10          | 32.23          | 27.56       | 32.27     | 0.000175   | 1.64        | 122.49    | 44.51        | 0.40          |
| raymondville                          | reach 3 (south)                             | 144030           | 343.00            | 26.10          | 34.42          | 28.19       | 34.49     | 0.000184   | 2.06        | 168,35    | 53.28        | 0.12          |
| raymondville                          | reach 3 (south)                             | 144030           | 528.00            | 26.10          | 36.44          | 28.88       | 36.55     |            | 2.55        | 208.83    | 61.38        | 0.13          |
| raymondville                          | reach 3 (south)                             | 144030           | 1148.00           | 26.10          | 39.11          | 30.77       | 39.17     | 0.000171   | 1.89        | 884.59    | 2554.83      | 0.12          |
| والمراجع المراجع                      |   | -                | 1,1222            |                |                |             |           | 0.000 (77) | 1.00        | 001.00    | 2554.65      | 0.12          |
| raymondviše                           | reach 3 (south)                             | 144020           | 201.00            | 26.10          | 32.23          | 27.56       | 32.27     | 0.000175   | 1.64        | 122.48    | 44.51        | 0.12          |
| raymondville                          | reach 3 (south)                             | 144020           | 343.00            | 26.10          | 34.42          | 28.19       | 34.4B     | 0.000184   | 2.06        | 166.31    | 53.27        | 0.12          |
| raymondville                          | reach 3 (south)                             | 144020           | 528.00            | 26,10          | 36.44          | 28.88       | 36.54     | 0.000211   | 2.55        | 206.78    | 61.37        | 0.14          |
| raymondville                          | reach 3 (south)                             | 144020           | 1148.00           | 26.10          | 39.11          | 30.78       | 39.17     | 0.000171   | . 1.90      | 880.73    | 2554.83      | 0.12          |
| the state of                          | of the difference of                        | 1131111          |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 144005           | Culvert           |                |                |             |           |            |             |           |              |               |
|                                       | to my Year or the second                    | 1 1              |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 143990           | 201.00            | 26.10          | 31.94          | 27.56       | 31.98     | 0.000206   | 1.72        | 116.67    | 43.35        | 0.13          |
| raymondville                          | reach 3 (south)                             | 143990           | 343.00            | 26.10          | 33.75          | 28.19       | 33.83     | 0.000243   | 2.24        | 152.94    | 50.60        | 0.14          |
| raymondville                          | reach 3 (south)                             | 143990           | 528.00            | 26.10          | 34.80          | 28.88       | 34.95     | 0.000374   | 3.03        | 173.99    | 54.81        | 0.18          |
| raymondville                          | reach 3 (south)                             | 143990           | 1148.00           | 26.10          | 35.97          | 30.78       | 36.49     | 0.001184   | 5.82        | 197.31    | 59.48        | 0.33          |
| 30, 4, 4, 7, 4                        |   |                  |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 143980           | 201.00            | 26.10          | 31.95          |             | 31.97     | 0.000133   | 1.08        | 185.39    | 43.39        | 0.09          |
| raymondville                          | reach 3 (south)                             | 143980           | 343.00            | 26.10          | 33.77          |             | 33.80     | 0.000136   | 1.26        | 271.30    | 50.70        | 0.10          |
| raymondville                          | reach 3 (south)                             | 143980           | 528.00            | 26.10          | 34.85          |             | 34.89     | 0.000191   | 1.61        | 328.21    | 55.01        | 0.12          |
| raymondville                          | reach 3 (south)                             | 143980           | 1148.00           | 26.10          | 36.16          |             | 35.29     | 0.000513   | 2.84        | 403.69    | 60.25        | 0.19          |
|                                       |   | 444000           | 204.00            | 25.00          | 24.07          |             | 71.00     | 0.00400    |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 141900           | 201.00            | 25.82          | 31.67          |             | 31.69     | 0.000133   | 1.08        | 185.51    | 43.41        | 0.09          |
| raymondville                          | reach 3 (south)                             | 141900           | 343.00            | 25.82          | 33.49          |             | 33.52     | 0.000136   | 1.26        | 271.18    | 50.69        | 0.10          |
| raymondville                          | reach 3 (south)                             | 141900           | 528.00<br>1148.00 | 25.82<br>25.82 | 34.63<br>36.14 |             | 34.64     | 0.000080   | 1.08        | 2349.18   | 4003.38      | 0.08          |
| raymondville                          | reach 3 (south)                             | 171500           | 1140.00           | 25.62          | 30.14          |             | 35.14     | 0.000019   | 0.61        | 10068.07  | 5795.82      | 0.04          |
| raymondville                          | reach 3 (south)                             | 140581           | 201.00            | 25.65          | 31.50          |             | 31.52     | 0.000133   | 1.08        | 185.60    | 43,41        | 0.09          |
| raymondville                          | reach 3 (south)                             | 140581           | 343.00            | 25.65          | 33.32          |             | 33.35     | 0.000131   | 1.24        | 379.03    | 714.63       | 0.09          |
| raymondville                          | reach 3 (south)                             | 140581           | 528.00            | 25.65          | 34.56          |             | 34.56     | 0.000051   | 0.87        | 2777.10   | 3163.12      |               |
| raymondville                          | reach 3 (south)                             | 140581           | 1148.00           | 25.65          | 36.11          |             | 36.11     | 0.000018   | 0.59        | 9638.91   | 5412.82      | 0.04          |
| 7 7 1                                 |   | ,                |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 139474           | 201.00            | 25.51          | 31.36          |             | 31.37     | 0.000134   | 1.08        | 185.27    | 43.38        | 0.09          |
| raymondville                          | reach 3 (south)                             | 139474           | 343.00            | 25.51          | 33.18          |             | 33.20     | 0.000135   | 1.26        | 302.09    | 406.32       | 0.10          |
| raymondville -:                       | reach 3 (south)                             | 139474           | 528.00            | 25.51          | 34.49          |             | 34.49     | 0.000057   | 0.91        | 2549.30   | 3011.65      | 0.08          |
| raymondville                          | reach 3 (south)                             | 139474           | 1148.00           | 25.51          | 36.09          |             | 36.09     | 0.000019   | 0.60        | 9488.58   | 5381.92      | 0.04          |
| 2 11 2 22 9                           | TOTAL A SEC. O                              | 1 1              |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 138076           | 201.00            | 25.32          | 31.16          |             | 31.18     |            | 1.09        | 184.99    | 43.38        | 0.09          |
| raymondville                          | reach 3 (south)                             | 138076           | 343.00            | 25.32          | 32.97          |             | 33.00     |            | 1.27        | 270.13    | 50.61        | 0.10          |
| raymondville                          | reach 3 (south)                             | 138076           | 528.00            | 25.32          | 34.39          |             | 34.40     |            | 0.97        | 2277.27   | 2815.14      | 0.07          |
| raymondville                          | reach 3 (south)                             | 138078           | 1148.00           | 25.32          | 36.05          |             | 36.05     | 0.000019   | 0.62        | 9287.17   | 5338.41      | 0.04          |
| recorded the                          | AT MAKET REAL                               | 420000           | 204.00            | 26.71          | 30.96          |             | 30.98     | 0.0004==   | - 100       | 1015      | 15.55        |               |
| raymondville                          | reach 3 (south)                             | 138026<br>138026 | 201.00<br>343.00  | 25.14<br>25.14 |                | <del></del> | 30.98     |            | 1.09        |           | 43.29        |               |
| rzymondville                          | reach 3 (south)                             | 138026           | 528.00            | 25.14          |                |             | 34.30     |            | 1.28        |           |              |               |
| raymondville                          | reach 3 (south)                             | 138028           | 1148.00           | 25.14          |                |             | 36.01     |            |             |           |              |               |
| y                                     | reach a (account)                           |                  |                   | 20,17          | 30.01          |             | - 50.01   | 3.550020   | 0.00        | 5555.50   | VE 80,80     | 0.04          |
| rzymondville                          | reach 3 (south)                             | 136620           | 201.00            | 24.96          | 30.77          |             | 30.79     | 0.000137   | 1,10        | 183.52    | 43.21        | 0.09          |
| raymondville                          | reach 3 (south)                             | 138620           | 343.00            | 24.98          |                |             | 32.59     |            | 1.28        |           |              |               |
| raymondville                          | reach 3 (south)                             | 136820           | 528.00            | 24.96          |                |             | 34.18     |            | 1.18        |           | <del></del>  |               |
| raymondville                          | reach 3 (south)                             | 138820           | 1148.00           | 24.96          |                |             | 35.98     |            |             | 7937.00   |              |               |
|                                       | 1. 191.01                                   |                  |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 135048           | 201.00            | 24.75          |                |             | 30.58     |            |             |           | <del>+</del> |               |
| raymondville                          | reach 3 (south)                             | 135048           | 343.00            | 24.75          |                |             | 32.37     | ·          |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 135048           | 528.00            | 24.75          |                |             | 34.02     |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 135048           | 1148.00           | 24.75          | 35.93          |             | 35.93     | 0.000036   | 0.83        | 6296.46   | 3959.02      | 0.05          |
|                                       |   | 1.000            |                   |                |                |             |           |            |             |           | 1            |               |
| raymondville                          | reach 3 (south)                             | 133745           | 201.00            | 24.58          |                |             | 30.39     |            | <del></del> |           |              |               |
| raymondville                          | reach 3 (south)                             | 133745           | 343.00            |                |                |             | 32.18     |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 133745           | 528.00            | 24.58          |                |             | 33.86     |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 133745           | 1148.00           | 24.58          | 35.88          |             | 35.88     | 0.000038   | 0.85        | 6107.17   | 3898.12      | 0.05          |
|                                       |   | I                |                   |                |                |             |           | -          |             | L         | 1            |               |
| rmmont-it-                            | reach 2 (equility                           | 132244           | 201.00            | 24 20          | 20.46          |             | 20 47     | 0.000144   | 1 1 1 1 1   | 10174     | 42.05        |               |
| raymondville                          | reach 3 (south)                             | 132244           | 201.00<br>343.00  | <del></del>    |                | <del></del> | 30.17     | +          | 1.11        |           |              |               |

HEC-RAS Plan. P 50% D (Continued) Crit W.S. E.G. Elev E.G. Slope Reach River Sta Q Total Min Ch El W.S. Elev Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft): (fVft) (ft/s) (\$Q ft) **(ft)** raymondville 5067.66 reach 3 (south) 132244 1148.00 24.39 35.63 35.83 0.000034 0.82 0.05 raymondville reach 3 (south) 130592 201.00 24 17 29 93 29.95 0.000142 1.11 181.39 43.02 0.10 raymondville reach 3 (south) 130592 343.00 24.17 31.70 31.73 0.000146 1.30 264.05 50.12 0.10 reach 3 (south) raymondville 130592 528.00 24.17 33 3B 33.41 0.000156 1.49 353.73 56.83 0.11 raymondville reach 3 (south) 130592 1148,00 24.17 35.79 0.000020 0.65 10069.91 35.79 6500.00 0.04 raymondville reach 3 (south) 129120 201.00 23,98 29.72 29.74 0.000144 1.11 180.53 42.94 0.10 raymondville reach 3 (south) 129120 343.00 23.98 31.48 31.51 0.000148 1.31 262.71 50.02 0.10 aymondville reach 3 (south) 129120 528.00 23.98 33.14 33.18 0.000159 1.50 351.28 56.66 0.11 raymondville 1148.00 reach 3 (south) 129120 23.98 35.77 35.77 0.000020 0.66 9934.56 6500.00 0.04 raymondville reach 3 (south) 127694 201.00 23.79 29.51 29.53 0.000146 1.12 179.68 42.86 0.10 raymondville reach 3 (south) 127694 343.00 23,79 31.27 31.29 0.000150 1.31 261.36 49.91 0.10 raymondville reach 3 (south) 127694 528.00 23.79 32.91 32.95 0.000162 1.51 348.83 56.49 D.11 aymondville reach 3 (south) 127694 1148.00 23.79 35.75 35.75 0.000021 0.67 9799.36 6500.00 0.04 reach 3 (south) 128200 201.00 23.60 29.29 29 31 0.00014 1.13 178.42 42.75 raymondville 0.10 raymondville reach 3 (south) 126200 343 00 23,60 31.04 31.07 0.000153 1.32 259.53 49.76 0.10 reach 3 (south) 126200 528.00 23 60 32.67 32.70 0.000166 1.53 345.76 56.27 0.11 aymondville ntymondville reach 3 (south) 126200 1148.00 23.60 35.73 35.73 0.000021 0.68 9664.30 6500.00 0.04 raymondville reach 3 (south) 128152 201.00 23 59 29 28 29.30 0.000148 1.13 178 53 42 7R 0.10 raymondville reach 3 (south) 126152 343.00 23.59 31.03 31.06 0.000153 1.32 259 65 49 77 0.10 raymondville reach 3 (south) 128152 528 00 23.59 32 66 32 69 0.000165 1.53 345.86 56 27 0.11 raymondville reach 3 (south) 126152 1148.00 23.59 35.72 35.73 0.000021 0.68 9658.00 6500.00 0.04 raymondville reach 3 (south) 124435 201.00 23.37 29.02 29 04 0.000152 1 14 176 90 42 61 0.10 raymondville reach 3 (south) 124435 343.00 23.37 30.77 30.79 0.000157 1.33 257.33 49.58 D.10 raymondville reach 3 (south) 124435 528 00 23.37 32 37 32 41 0.000171 1.54 341.96 56.00 0.11 raymondville reach 3 (south) 124435 1148.00 23.37 35.69 35.69 0.000022 0.70 9430.25 6500.00 0.04 123138 201.00 0.000155 175.65 raymondville reach 3 (south) 23.20 28.82 28.84 1.14 42.49 0.10 raymondville reach 3 (south) 123138 343.00 23.20 30.56 30.59 0.000160 1.34 255,56 49.44 0.10 raymondville reach 3 (south) 123138 528 00 23.20 32.14 32.18 0.000175 1.56 338.90 55.78 0.11 raymondville reach 3 (south) 123138 1148.00 23.20 35.65 35.65 0.000023 0.72 9199.52 6500.00 0.04 raymondville reach 3 (south) 121629 201.00 23.01 28.58 28.60 0.000161 1.16 173.29 42.27 0.10 raymondville reach 3 (south) 121829 343 00 23.01 30 31 30.34 0.000165 1.36 252 51 49 19 0.11 raymondville reach 3 (south) 121829 528 00 23 01 31 87 31.90 0.000182 1 58 333.97 55 42 0 11 raymondville reach 3 (south) 121629 1148.00 23.01 35.61 35.62 0.000024 0.74 8970.19 6500.00 0.04 raymondville reach 3 (south) 120128 201.00 22.81 28.33 28.35 0.000166 1.17 171.37 42.08 0.10 reach 3 (south) raymondville 120128 343 00 22 81 30.06 30.09 0.000170 1 37 249 96 48 99 0 11 raymondville reach 3 (south) 120128 528 00 22.81 31.59 31.63 0.000189 1.60 329.61 55.11 0.12 raymondville reach 3 (south) 120128 1148.00 22.81 35.58 35.58 0.000025 0.76 8741.66 6500,00 0.04 raymondville reach 3 (south) 120078 201.00 22.80 28.32 28.34 0.000166 1.17 171.44 42.09 0.10 raymondville reach 3 (south) 120078 343.00 22.80 30.05 30 08 0.000170 1.37 250.03 48.99 0.11 raymondville reach 3 (south) 120078 528.00 22.80 31.58 31.62 0.000189 1.60 329,64 55.11 0.12 raymondville 6500.00 reach 3 (south) 120078 1148.00 22.80 35 57 35.58 0.000025 0.76 8734.05 0.04 118101 201.00 22.55 27.98 28.00 0.000177 1.20 167.65 41.73 0.11 raymondville reach 3 (south) 0.000179 245.30 48.60 raymondville reach 3 (south) 118101 343.00 22.55 29.70 29.73 1.40 0.11 raymondville 54.56 reach 3 (south) 118101 528.00 22.55 31.19 31.23 0.000201 1.64 322.06 0.12 6500.00 0.000027 0.79 8413.48 raymondville reach 3 (south) 118101 1148.00 22.55 35.52 35.53 0.05 118051 201.00 0.000176 167.70 41.73 raymondville reach 3 (south) 22.54 27.97 28.00 1.20 0.11 raymondville 22.54 29.72 0.000179 1.40 245.35 48.61 0.11 reach 3 (south) 118051 343.00 29.69 118051 528.00 22.54 31,18 31.22 0.000201 1.64 322,06 54.56 0.12 raymondville reach 3 (south) 0.000027 0.79 8344.09 6500.00 1148.00 22.54 35.52 0.05 raymondville reach 3 (south) 118051 35.51 27.77 41.50 0.11 22.39 27.79 0.000184 165.31 116902 201.00 1.22 raymondvitte reach 3 (south) 242.45 48.37 0.11 0,000185 1.41 116902 343.00 29.48 29.51 raymondville reach 3 (south) 22.39 1.66 317.32 54.21 30.94 0.000209 0.12 116902 528.00 22.39 30.99 raymondville reach 3 (south) 6500.00 0.05 raymondville reach 3 (south) 116902 1148.00 22.39 35.48 35.48 0.000028 0.81 8145.38 27.37 40.95 0.11 114860 201.00 22.13 27.39 0.000202 1.26 ravmondville reach 3 (south) 0.000198 1.45 236.58 47.88 0.11 raymondville reach 3 (south) 114860 343.00 22,13 29.10 29.13 114860 30.49 30.54 0.000229 1.72 307.23 53.46 0.13 528.00 22,13 raymondville reach 3 (south) 2554.83 35.41 0.000053 4083.30 0.06 114860 1148.00 35,40 1.11 raymondville reach 3 (south) 22.13 27.00 0.000225 1.31 153.64 40.38 0.12 113007 21.88 26.97 201.00 raymondville reach 3 (south) 21.88 28.72 28.75 0.000213 1.49 230.29 47.35 0.12 113007 343.00 raymondville reach 3 (south) 528.00 0.000251 1.78 296.74 52.67 0.13 21.88 30.05 30,10 raymondville reach 3 (south) 113007 0.000155 1.83 805.82 1017.57 0.11 raymondville reach 3 (south) 113007 1148,00 21.88 35.20 35.25 39.95 112058 201.00 21.76 26,75 26.78 0.000243 1.34 149.48 0.12 raymondville reach 3 (south) 112058 343.00 21.76 28.51 28.55 0.000224 1.52 47.00 0.12 raymondville reach 3 (south)

HEC-RAS Plan- P 50% D (Continued)

| HEC-RAS<br>River             | Plan P 50% D<br>Reach  | River Sta | ed)<br>Q Total     | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vei Chni     | Flow Area         | 7 1854h         |              |
|------------------------------|--|-----------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-------------------|-----------------|--------------|
| 7                            | 7.10.00  |           | (cfs)              | (ft)           | (ft)           | (ft)           | (ft)           | (ft/ft)    | (ft/s)       | (sq.fi)           | Top Width       | Froude # Chi |
| raymondville                 | reach 3 (south)  | 112058    | 528.00             | 21.76          | 29.80          |                | 29.85          | 0.000268   | 1.82         | 290.01            | 52.15           | 0.14         |
| raymondville                 | reach 3 (south)  | 112058    | 1148.00            | 21.76          | 35.04          |                | 35.10          | 0.000161   | 1.85         | 663.58            | 1085.61         | 0.11         |
|                              |  |           |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 3 (south)  | 112008    | 201.00             | 21.75          | 26.73          |                | 26.76          | 0.000244   | 1.35         | 149.38            | 39.94           | 0.12         |
| raymondville                 | reach 3 (south)  | 112008    | 343.00<br>528.00   | 21.75          | 28.50          |                | 28.53          | 0.000224   | 1.52         | 226.05            | 46.99           | 0.12         |
| raymondville                 | reach 3 (south)  | 112008    | 1148.00            | 21.75<br>21.75 | 29.78<br>35.04 |                | 29.84<br>35.09 | 0.000268   | 1.82         | 289.81            | 52.14           | 0.14         |
| 100                          | 1.045 (1.04 A.) 1 - 2.04   | 112000    | 7140.00            | 21.73          | 33.04          |                | 33.09          | 0.000161   | 1.85         | 656.03            | 1085.61         | 0.11         |
| raymondville                 | reach 3 (south)  | 110270    | 201.00             | 21.53          | 26.27          |                | 26.30          | 0.000295   | 1.44         | 139.54            | 38.94           | 0.13         |
| raymondville                 | reach 3 (south)  | 110270    | 343.00             | 21.53          | 28.08          |                | 28.12          | 0.000251   | 1.58         | 216.94            | 46.21           | 0.13         |
| raymondville                 | reach 3 (south)  | 110270    | 528.00             | 21.53          | 29.28          |                | 29.34          | 0.000310   | 1.92         | 275.05            | 50.99           | 0.15         |
| raymondville                 | reach 3 (south)  | 110270    | 1148.00            | 21.53          | 34.75          |                | 34.81          | 0.000165   | 1.87         | 614.08            | 72.89           | 0.11         |
|                              |  | *****     |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 1  | 109185    | 907.00             | 17.51<br>17.51 | 26.09          |                | 26.12          | 0.000143   | 1.53         | 592.51            | 88.35           | 0.10         |
| raymondville                 | reach 1  | 109185    | 1991.00            | 17.51          | 27.86<br>28.98 |                | 27.91<br>29.06 | 0.000178   | 1.90<br>2.30 | 755.26            | 95.44           | 0.12         |
| raymondville                 | reach 1  | 109185    | 6391.00            | 17.51          | 33.95          |                | 34.27          | 0.000603   | 4.53         | 865.22<br>1411.30 | 99.94<br>119.82 | 0.14<br>0.23 |
| 4.4                          |  | F1.50     |                    |                |                |                | 37.21          | 5.00000    | 7.50         | 1411.50           | 115.02          | 0.23         |
| raymondville                 | reach 1  | 109050    | 907.00             | 17.49          | 26.07          |                | 26.10          | 0.000142   | 1.53         | 592.58            | 88.36           | 0.10         |
| raymondville                 | reach 1  | 109050    | 1437.00            | 17.49          | 27.83          |                | 27.89          | 0.000178   | 1.90         | 754.87            | 95.42           | 0.12         |
| raymondville                 | reach 1  | 109050    | 1991.00            | 17.49          | 28.95          |                | 29.03          | 0.000232   | 2.30         | 864.06            | 99.89           | 0.14         |
| raymondville                 | reach 1  | 109050    | 6391.00            | 17.49          | 33.87          |                | 34.19          | 0.000612   | 4.55         | 1403.41           | 119.55          | 0.23         |
| raymondville                 | reach 1  | 108145    | 907.00             | 17.35          | 26.01          |                | 20.04          | 0.0004.53  |              | ****              |                 |              |
| raymondville                 | reach t  | 108145    | 1437.00            | 17.35          | 26.01          |                | 26.04<br>27.82 | 0.000137   | 1.51         | 599.92<br>761.33  | 88,69<br>95,69  | 0.10         |
| raymondville                 | reach 1  | 108145    | 1991.00            | 17.35          | 28.85          |                | 28.94          | 0.000174   | 2.29         | 868.43            | 100.07          | 0.12<br>0.14 |
| raymondville                 | reach 1  | 108145    | 6391.00            | 17.35          | 33.73          |                | 33.91          | 0.000223   | 3.68         | 3452.55           | 2916.87         | 0.14         |
|                              |  |           |                    |                |                |                |                |            |              |                   |                 | - 5.21       |
| reymondville                 | reach 1  | 107740    | 907.00             | 17.35          | 25,95          |                | 25.99          | 0.000141   | 1.52         | 594.87            | 88.46           | 0.10         |
| raymondville                 | reach 1  | 107740    | 1437.00            | 17.35          | 27.69          |                | 27.74          | 0.000178   | 1.90         | 754.41            | 95.40           | 0.12         |
| raymondville                 | reach 1  | 107740    | 1991.00            | 17.35          | 28.76          |                | 28.84          | 0.000237   | 2.32         | 858.81            | 99.68           | 0.14         |
| raymondville                 | reach 1  | 107740    | 6391.00            | 17.35          | 33.38          |                | 33.64          | 0.000742   | 4.28         | 2445.13           | 2768.45         | 0.25         |
| raymondville                 | reach t  | 108578    | 907.00             | 17.16          | 25.79          | 19.46          | 25.83          | 0.000139   | 1.52         | 597.30            | 88.57           | 0.10         |
| raymondville                 | reach 1  | 108578    | 1437.00            | 17.16          | 27.48          | 20.15          | 27.54          | 0.000180   | 1.91         | 752.68            | 95,33           | 0.10         |
| raymondville                 | reach 1  | 106578    | 1991.00            | 17.16          | 28.48          | 20.77          | 28.56          | 0.000244   | 2.34         | 849.80            | 99.32           | 0.14         |
| raymondville                 | reach 1  | 106578    | 6391.00            | 17.16          | 32.68          | 24.30          | 32,85          | 0.000586   | 3.69         | 3683.49           | 3335.41         | 0.22         |
|                              |  |           |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 1  | 108370    | 907.00             | 17.13          | 25.76          | 19.43          | 25,80          | 0.000136   | 1.50         | 608.30            | 90.80           | 0.10         |
| raymondville                 | reach 1  | 106370    | 1437.00            | 17.13          | 27.44          | 20.11          | 27.50          | 0.000175   | 1.88         | 765.11            | 98.01           | 0.12         |
| raymondville<br>raymondville | reach 1  | 106370    | 1991.00<br>6391.00 | 17.13<br>17.13 | 28.43<br>32.52 | 20.73          | 28.51<br>32.71 | 0.000239   | 2.31<br>3.92 | 863.76            | 102.23          | 0.14         |
| JANGAROUS                    | 7,12,1   | 1,000,0   | 0331.00            |                | J2.J2          | 27.21          | 32.11          | 0.000665   | 3.92         | 3188,22           | 3001.19         | 0.23         |
| raymondville                 | reach-1  | 105922.*  | 907.00             | 17.06          | 25.70          | 19.36          | 25.74          | 0.000137   | 1.50         | 604.70            | 90.25           | 0.10         |
| raymondville                 | reach t  | 105922.*  | 1437.00            | 17.06          | 27.36          | 20.04          | 27.42          | 0.000177   | 1.89         | 760.47            | 97.25           | 0.12         |
| raymondviile                 | reach t  | 105922.*  | 1991.00            | 17.06          | 28.31          | 20.66          | 28.40          | 0.000244   | 2.33         | 854.76            | 101.25          | 0.14         |
| raymondville                 | reach 1  | 105922.*  | 6391.00            | 17.06          | 31.89          | 24.21          | 32,30          | 0.001214   | 5.10         | 1253.09           | 153,41          | 0.31         |
|                              | 3 (27) (3 (1 ) 3 (2 ) 3 (3 ) 3 | 405474.5  |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville<br>raymondville | reach 1  | 105474.*  | 907.00             | 16.99<br>16.99 | 25.64<br>27.28 | 19.29<br>19.97 | 25.67          | 0.000137   | 1.50         | 603.25            | 89.72           | 0.10         |
| raymondville                 | reach 1  | 105474.*  | 1991.00            | 16.99          | 28.19          | 20.59          | 27.34<br>28.28 | 0.000179   | 1.90         | 756.03<br>848.05  | 96.51<br>100.30 | 0.12         |
| raymondville                 | reach 1  | 105474.*  | 6391.00            | 16.99          | 31.35          | 24.14          | 31,80          | 0.001036   | 5.39         | 1184.84           | 117.34          | 0.14         |
| 16.5                         | Water Control  |           |                    |                |                |                | <u> </u>       | 2.30,000   | 0.00         | .,,,,,,           | 117.54          | 0.30         |
| raymondville                 | reach 1  | 105026.*  | 907.00             | 16.91          | 25.58          | 19.21          | 25.61          | 0.000136   | 1.51         | 602.63            | 89.24           | 0.10         |
| raymondville                 | reach 1  | 105026.*  | 1437.00            | 16.91          | 27.20          | 19.89          | 27.25          | 0.000161   | 1.91         | 752.53            | 95.83           | 0.12         |
| raymondville                 | reach 1  | 105026.*  | 1991.00            | 16.91          | 28.08          | 20.51          | 28.16          | 0.000255   | 2.37         | 835.38            | 99.40           | 0.14         |
| raymondville                 | reach 1  | 105028.*  | 6391.00            | 15.91          | 30.80          | 24.07          | 31,30          | 0.001176   | 5.69         | 1124.11           | 112.81          | 0.32         |
| raymondville                 | reach 1  | 104578    | 907.00             | 16.84          | 25.52          | 19.14          | 25.55          | 0.000136   | 1.51         | 601.46            | 99.70           | 0.10         |
| raymondville                 | reach 1  | 104578    | 1437.00            | 16.84          | 27.12          | 19.83          | 25.55          | 0.000136   | 1.51         | 748.52            | 88.76<br>95.15  | 0.10<br>0.12 |
| raymondville                 | reach 1  | 104578    | 1991.00            | 16.84          | 27.96          | 20.44          | 28.05          | 0.000260   | 2.40         | 830.27            | 98.53           | 0.12         |
| raymondville                 | reach f  | 104578    | 6391.00            | 16.84          | 30.16          | 24.00          | 30.73          | 0.001356   | 6.05         | 1056.56           |                 | 0.34         |
| 4                            |  |           |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach f  | 102128    | 907.00             | 16.43          | 25.11          |                | 25,15          | 0.000204   | 1.49         | 637.77            | 416.07          | 0.12         |
| raymondville                 | reach.1  | 102128    | 1437.00            | 16.43          | 26.80          |                | 26.82          | 0.000110   | 1.33         | 1880.09           | 1113.10         | 0.09         |
| raymondville<br>raymondville | reach 1  | 102128    | 1991.00            | 16.43          | 27.66          |                | 27.68          | 0.000088   | 1.30         |                   |                 |              |
| , a yrrionalyllio            | TOBGE (. P.  | 102 126   | 6391.00            | 16,43          | 29.79          |                | 29.81          | 0.000132   | 1.88         | 8441.27           | 3448.42         | 0.11         |
| raymondville                 | reach 1  | 100615    | 907.00             | 16.19          | 24.89          | 18.48          | 24.92          | 0.000118   | 1.36         | 567.00            | 104.73          | 0.09         |
| raymondville                 | reach 1  | 100615    | 1437.00            | 16.19          | 26.65          | 19.15          | 26.67          | 0.000087   | 1.37         | 1787.88           |                 | 0.09         |
| raymondville                 | reach 1  | 100615    | 1991.00            | 16.19          | 27.53          | 19.75          | 27.56          | 0.000079   | 1.40         | 3023.18           |                 | <del></del>  |
| raymondville                 | reach 1  | 100615    | 6391.00            | 16.19          | 29.61          | 23.11          | 29.63          | 0.000111   | 1.90         | 8967.18           |                 | 0.10         |
|                              |  |           | <u> </u>           |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 1  | 100117    | 907.00             | 16.10          | 24.82          | 18.40          | 24.85          | 0.000134   | 1,50         | 605,12            |                 | 0.10         |
| raymondville                 | reach 1  | 100117    | 1437.00            | 16.10          | 26.60          | 19.08          | 26,62          |            | 1.42         | 1617.46           |                 |              |
| raymondville                 | reach 1  | 100117    | 1991.00            | 16.10<br>16.10 | 27.48          | 19.70          | 27.50          |            | 1.44         | 2550.83           |                 |              |
| (A)IRAIGAINB                 | reach 1  | 100117    | 6391.00            | 10.10          | 29.54          | 23.26          | 29.56          | 0.000139   | 1.92         | 10012.96          | 6000.00         | 0.11         |
| raymondville                 | reach 1  | 98117     | 907.00             | 15.78          | 24.56          |                | 24.60          | 0.000131   | 1.49         | 610,77            | 89.18           | 0.10         |
|                              | 1.7-41.1   | 122       | 1 307.00           | 13.70          | 47.30          |                | 27.00          | 0.000131   | 1.49         | , 010.77          | U 05.10         | 0.10         |

|              | AlbiW qoT           | Flow Area               | Aei Chul       | E.G. Slope            | E.G. Elev      | Cut W.S.   | W.S. Elev      | MINCHE         | Q Total            | RIVET SIR            | Neach                  | River  |
|--------------|---------------------|-------------------------|----------------|-----------------------|----------------|--|----------------|----------------|--------------------|----------------------|------------------------|--|
|              | (u)                 | (U ps)                  | (2VI)          | (11/11)               | (M)<br>03.05   | (u)  | (A)<br>Ab 35   | (n)<br>87.81   | (stb)              | 41186                | .v                     | allich normen  |
| 90.0         | 35.26.46<br>62.09£4 | 77.8084<br>87.6728      | 18.0<br>08.0   | 040000.0<br>810000.0  | 26.49<br>24.72 | <del> </del>                                     | 84.82<br>24.72 | 87.81<br>87.81 | 00.7511            | 71188<br>71188       | f ribsen<br>f ribsen   | eliiybnomys:<br>eliiybnomys:   |
| N0.0<br>N0.0 | 96,9122             | 89.78881                | GT.0           | 120000.0              | Z4 6Z          |  | 74.es          | 87.21          | 00.1658            | 71186                | î riosen               | ellivbnomysı   |
|              |                     |                         |                |                       |                |  |                |                |                    | B = 78 E ; (234)     |                        | is Post No.  |
| 31.0         | 74.68               | ₽€.718                  | 24.1           | 7S1000.0              | 24.34          | <del> </del>                                     | 24.30          | 24.21          | 00.709             | 71196<br>71196       | i rbeen                | ellivbromys:   |
| 01.0<br>(0.0 | 78.0981<br>35.882£  | 1909.02<br>49.753       | 86.1<br>80.1   | 850000.0              | 26.35          |  | 26.33          | 24.21          | 00.7541            | LI 196               | f rbsen                | ellivbromys:<br>ellivbromys:   |
| 70.0         | 16.3433             | 19730.04                | 80. r          | 120000.0              | ZÞ.62          |  | 19.62          | 24.81          | 00.1668            | 71196                | f ribeer               | elilybnomysi   |
|              |                     |                         |                |                       |                |  | † <del></del>  | <del> </del>   | 1 200              |                      |                        | 4; 3, 1 ; 3 ; 5 ; 5 ; 5 ; 5 ; 5 ; 5 ; 5 ; 5 ; 5  |
| BO'O         | 116.54              | 34.167<br>24.6431       | 1.24           | 801000 C              | 26.25<br>24.25 | <del>                                     </del> | 24.22          | SE.81          | 00.709             | 19696<br>19696       | f. fizeer              | ellivbnomysn<br>ellivbnomysn   |
| 80'0<br>80'0 | 18.89£1<br>£7.48£   | 24.6421<br>12.813E      | SE.1<br>ES.1   | 801000.0<br>801000.0  | 25.2S<br>15.7S |  | £2.73          | 15.32          | 00.7541            | 19696                | 1 (Osen                | agivbnomys:<br>agivbnomys:   |
| 70.0         | 80.1788             | 13091.03                | 1.28           | 090000.0              | 75.62          |  | 29.36          | 15.32          | 00.1969            | i vega               | 1 daen                 | alivonomyen  |
|              |                     |                         |                |                       |                |  |                |                |                    |                      |                        |  |
| 01.0         | 06.68               | 626.93                  | SP.I           | 121000.0              | 11.45          | <del>                                     </del> | 24.08          | 51.21          | 00.708             | 21176                | 1 ribeen               | Minondville  |
| 11.0         | 28.466              | 1156.26                 | 59.1           | \$81000.0             | 26.09          | <del> </del>                                     | 20.82          | 51.21          | 00.7541            | 21196                | freen                  | alivbnomys:  |
| 01.0         | 27.660S<br>28.8812  | 46.16082<br>46.16082    | 78.1<br>20.2   | 0.000124              | 91.72<br>82.62 | <del></del>                                      | 29.73          | 15.12<br>S1.21 | 00.1991            | 21116<br>21116       | i ribaen i<br>i ribaen | elikybnomys:<br>elikybnomys:   |
| 21.0         | C0.001 C            | FC:1 000                | +0.2           | 7010000               | 07:07          |  | 07:07          | 71.01          | 00:100             | 0 19,400             | 2.2                    |  |
| 60.0         | 82.08               | 09.35.60                | E4.1           | at r000.0             | 88.62          | 60.71  | 23.85          | 67.41          | 00.709             | 11126                | 1 rbeer                | elivbriomysi   |
| 0.12         | 00.255              | 928.09                  | 07.1           | 281000.0              | ₽7.2 <u>5</u>  | BT.T1  | 07.2S          | 67.41          | 1437.00            | 21128                | ) ibeer                | alivonomyen  |
| S1.0<br>P1.0 | 81.878              | 1542.43                 | 08.1           | 801000.0              | 98.8S<br>97.8S | 66.81  | 26.85          | 67.41<br>67.41 | 00,1861            | 71126<br>71126       | 1 rbsen<br>1 rbsen     | ellivbromys:<br>ellivbromys  |
| er.c         | 84.35.48            | 11.88S.A                | 3.25           | 80+000.0              | 67.8S          | 21.95  | 28.68          | 67.41          | 00.1959            | 214 94               | TIMES!                 | All Annaudance   |
| 60.0         | 17.06               | 645.22                  | 11/1           | 111000.0              | 73.64          |  | 19.55          | Styl           | 00.708             | 19006                | î rbşer                | <b>BIIIVDINOITIVE</b>  |
| 0.12         | 9Þ.18Þ              | 87.868                  | 37.1           | 902000.0              | \$2°34         |  | 25.29          | 54.45          | 1437.00            | 29006                | f ribaen               | ellivonomys:   |
| 11.0         | S8.870S             | 48.E45S                 | 1971           | Z#1000.0              | 76.67          | <del> </del>                                     | 76.54          | 30.01          | 00.1991            | 29006<br>29006       | t ribeen               | elithromys   |
| 0.12         | 7E.E384             | 21.8348                 | S 09           | 271000.0              | <b>≯</b> Z:8Z  | <del></del>                                      | 12.82          | 54.41          | 00.1959            | <b>Z9006</b>         | [ USEN                 | Shirondriile   |
| 60.0         | 69.06               | 28.44.8                 | 14.1           | \$11000.0             | ₽9.6S          |  | 19.52          | 34.45          | 00.709             | 81006                | 1 Hosen                | ellivbromys  |
| 21.0         | 28.6 <b>4</b> 4     | £0'969                  | 87.1           | T02000.0              | ££.82          |  | 52.29          | SP PI          | 00.7511            | 81006                | î ribsen               | allivbriomys   |
| 11.0         | 2074.55             | 23Z9.39                 | 1.65           | Eh1000.0              | 78.82          |  | 26.53          | SP. 41         | 00.1991            | 81006                | 1 to 9941              | edivbnomys   |
| 21.0         | 86.2884             | 00.6248                 | 2.10           | 871000.0              | 28.23          | ļ  | 28.20          | 34.41          | 00.1959            | 81008                | l dasch 1              | alivonomys.  |
| 60'0         | 01.16               | 81.468                  | 9£.1           | 701000.0              | 23.43          |  | 23.40          | <b>カレカレ</b>    | 00.708             | T1188                | f rises)               | ellivbriomya   |
| 11.0         | 82.78               | 78.66T                  | 08.1           | 0.000151              | 52.00          |  | 24.95          | <b>ラレラ</b> レ   | 00.7Eht            | Tr188                | 1 rbsen                | ellivbnomys  |
| 11.0         | 41.845.14           | 16.2842                 | 67.1           | 391000.0              | 72.85          |  | 26.23          | <b>サレサレ</b>    | 1991.00            | 71188                | 1 rbsen                | ellivbnomys  |
| 50.0         | 71,2138             | £1.59011                | 69.1           | £01000.0              | 79.72          |  | 96,72          | <b>Þ</b> I.Þ!  | 00.1968            | 71188                | 1 ribeen               | ellivbriomys   |
| <b>▶1.0</b>  | 88.06               | <b>≯</b> 0.6 <b>≯</b> 9 | 21.2           | 0.000252              | 23.09          |  | 23.02          | 13.61          | 1375.00            | 11198                | fineen                 | ellivbriomys:  |
| 81.0         | 96.26               | 20.8TT                  | 21.2           | \$8000°0              | 24.49          | ļ  | 24.36          | 13.81          | 2192,00            | 71199                | i ilogari              | ellivonomys:   |
| ar.o         | 11.0155             | 08.141.E                | 57.38          | 6ZE000.0              | 87.82          | 53.81  | 25.72          | 18.61          | 3163.00            | 11198                | neach 1                | ellivbnomys  |
| 80.0         | 6000.00             | £8.627£1                | 1.39           | 870000.0              | 6T.TS          |  | 87.7S          | 19.61          | 00.01cT            | 71198                | î ribaen               | symondville  |
| ···-         |                     | 50 07 0                 |                | , 50000               |                | <del> </del>                                     | 33 00          | 0301           | 30 3667            | - 40718              | > 44-44-1              | - of Landroville   |
| 41.0         | 94.16<br>58.86      | Z8.E43<br>Z4.127        | 2,14           | 192000.0<br>924000.0  | 27.52<br>39.62 | ļ  | 23.62          | 69.61          | 00.8751            | 064148               | i ribaen<br>1 ribaen   | elivbnomys:  |
| 81.0<br>SS.0 | SE.101              | 74,127<br>59,888        | 3.65           | 0.000590<br>0.000590  | 61.62          | ļ  | 20.02          | 86.61          | 3163.00            | 06/148               | 1 Hosel                | eliivbnomys<br>eliivbnomys   |
| 0¥'0         | 2138.25             | 1218.70                 | 00.T           | PA8100.0              | 27.43          | 21.35  | 79.82          | 43.59          | 7349.00            | 06748                | l rbest                | eliivbnomys  |
|              | -                   |                         |                |                       |                |  |                |                |                    |                      |                        | 1.812  |
| <b>≱</b> 1.0 | 99.69               | 09.21/9                 | 2,13           | 992000.0              | 22.72          |  | 22.65          | 72.51<br>72.51 | 00.27.61           | *8.693.8             | 1 Absen                | ellivbromys  |
| 61.0         | 86.99               | 81.48T                  | 2.91           | 200000.0<br>\$00000.0 | 23.90          | ļ <del></del>                                    | 24.93          | 78.E1          | 3163.00            | *8.693.8*            | reach 1                | elivbromys:  |
| SS.0<br>04.0 | 20.801<br>27.8682   | 80.278<br>80.63£1       | \$6.6<br>6.9   | £68100.0              | 27.24          | PE.12  | 26.50          | 13.51          | 7349.00            | 8,68348              | l dasen<br>I dasen     | elivbromys:  |
|              | n cons              |                         |                |                       |                |  |                |                |                    |                      |                        |  |
| Þ1'0         | 82.23               | 86.543                  | 5.14           | £72000.0              | 22.69          |  | 22.62          | 93.51          | 00.8751            | -7.78 <b>21</b> 8    | i data                 | eliivbnomys.   |
| e1.0         | E8.101              | 77.227                  | 19.2           | 124000.0              | 38.EZ          | <del> </del>                                     | 23.73          | 33.51          | 2192.00            | *T, TQZA8            | f ribaen               | elivbnomys.  |
| 52.0<br>14.0 | 88.801<br>88.713£   | 88.178<br>81.0881       | E8.8           | 829000'0<br>1-26100'0 | 90.2S<br>80.7S | 21.33  | 24.86          | 98.61<br>88.61 | 00,E91£            | *T.79248             | f faser<br>f faser     | Symondylle<br>Symondylle   |
| 11.0         |                     |                         |                |                       |                |  |                |                |                    | 3.7                  | Kraja i Pital          |  |
| S1.0         | 12.28               | 72,04a                  | 2,15           | 87.5000.0             | 75.57          | <u> </u>   | 09.22          | 13.54          | 1375.00            | -9°10918             | f ribsen               | ellivbnomys  |
| er.0         | 19.501              | 85.847                  | 29.5           | 694000.0              | 18.62          | <b> </b>   | 88.ES<br>97.AS | 13.51          | 2192,00            | -9 10978<br>-9 10978 | reach 1                | ellivbriomys   |
| 62.0<br>04.0 | 08.111<br>15.7054   | 17.788                  | ₹8.£<br>₹8.8   | 599000.0<br>726100.0  | 26.00          | 21.30  | 24.79          | 13.54          | 3163,00<br>7349,00 | -5.10218<br>-5.10218 | l ribsen 1             | eliivbnomys:   |
|              |                     |                         |                |                       |                |  |                |                |                    | 14 2 14 14           |                        | The state of the s |
| S1.0         |                     | 61.85.15                | 2.16           | 87S000.0              | 52.64          |  | 72.57          | £8.51          | 1375.00            | .t 90tt8             | 1 theen                | ellivbnomys  |
| 61.0         |                     | 740.50                  | 96.2<br>09.5   | T8+000.0              | 77.ES          |  | 23.63          | 13.53          | 2192.00            | -9 GOPP8             | reach 1                | ellivbromys:   |
| ÞS.0<br>∂E.0 | 89.411              | 91.858<br>74.6262       | 69°S           | 807000.0<br>668100.0  | 24.93<br>24.93 |  | 17,22          | 58.51<br>58.51 | 00.6316<br>00.9467 | *60448               | f ribsen<br>1 ribsen   | aymondville<br>symondville   |
| 00'0         | 07'000'             | 15:0707                 | 00.0           | 500105:-              | Total          |  | 01:07          |                | 00'015             |                      |                        | outanisti d  |
| Þ1,0         | 6Þ 06               | PS PE9                  | 212            | 692000.0              | 22.62          |  | 22.54          | 13.51          | 00.8751            | -2.90518             | l riasen               | ellivbromes  |
| 61.0         | 01-66               | 732.29                  | 2.99<br>2.5    | 184000.0              | 23.73          | <del></del>                                      | 23.59          | 13.61          | 2192.00            | 84309.2              | reach 1                | e)livbnomys  |
| ÞS.0<br>1E.0 | 17.211              | 28.25<br>3875.90        | \$7.E<br>19.\$ | 484000.0              | 24.86          | <del> </del>                                     | 26.16          | 13.51          | 00,68rE<br>00,94ET | 84309.Z-             | f rbsen                | elivbnomys:  |
| 1000         | 70: 700:            | 00:0100                 |                | 001105                |                |  |                |                | 00:015             | -                    |                        | omer   |
| <b>Þ</b> 1.0 |                     | 632.53                  | 217            | 172000.0              | 55.59          |  | 22.52          | 02.61          | 1375.00            | 64213.1"             | l ribaer               | ellivbnomysn   |
| 61.0         |                     | ₱2.72T<br>₱7.8C8        | 3.01           | 29+000.0              | 89.ES<br>87.AS |  | 23.54          | 13.50          | 2163.00            | 1,51218              | I ribaen               | elilybromys:   |
|              | QC'1   '            | 828.76                  | 3.82           | £77000.0              | 24.79          |  | 24,56          | 13.50          | 3163,00            | 1,612,48             | reach 1                | ellivanomen  |
| 32.0         | 01.7243             | 17.8474                 | 177            | 096000'0              | 26.32          | 1  | 26.13          | 13.50          | 00.6 <b>%</b> £7   | 842131-              | l hasen                | ellivbnomys  |

| River         | Plan P 50% I<br>Reach       | River Sta   | Q Total            | Min Ch El   | W.S. Elev  | Crit W.S.     | E.G. Elev    | E.G. Slope                            | Vel Chni     | Flow Area    | Top Width    | Froude # Chi |
|---------------|-----------------------------|-------------|--------------------|-------------|--|---------------|--------------|---------------------------------------|--------------|--------------|--------------|--------------|
|               |                             |             | (cfs)              | (ft)        | (ft)   | (ft)          | (ft)         | (fVft)                                | (ft/s)       | (sq ft)      | (ft)         |              |
| aymondville   | reach 1                     | 84117       | 1375.00            | 13.48       | 22.49  |               | 22.56        | 0.000273                              | 2.18         | 631.29       | 90,09        | 0.14         |
| aymondville   | reach 1                     | 84117       | 2192.00            | 13.48       | 23.50  |               | 23.64        | 0.000467                              | 3.03         | 723.94       | 94.11        | 0.19         |
| aymondville   | reach 1                     | 84117       | 3163.00            | 13.48       | 24.49  |               | 24.72        | 0.000683                              | 3.86         | 819.13       | 98.08        | 0.24         |
| aymondville   | reach 1                     | 84117       | 7349.00            | 13.48       | 26.10  |               | 26,21        | 0.000727                              | 3.73         | 5777.30      | 6000.00      | 0.24         |
| 1.500         | Nederland State             |             |                    |             |  |               |              |                                       |              |              |              |              |
| raymondville  | reach 1                     | 83617.*     | 1375.00            | 13.40       | 22.35  |               | 22.42        | 0.000283                              | 2.20         | 625.05       | 90.47        | 0.15         |
| raymondville  | reach 1                     | 83617.*     | 2192.00            | 13.40       | 23.25  |               | 23.40        | 0.000503                              | 3.09         | 708.39       | 94.58        | 0.20         |
| raymondville  | reach 1                     | 83617.*     | 3163.00            | 13.40       | 24.06  |               | 24.30        | 0.001067                              | 3.94         | 872.43       | 547.90       | 0.28         |
| raymondville  | reach 1                     | 83617.*     | 7349.00            | 13.40       | 25.73  |               | 25.85        | 0.000726                              | 3.82         | 5277.34      | 4437.51      | 0.24         |
|               |                             |             |                    |             |  |               |              |                                       |              |              |              |              |
| raymondville  | reach 1                     | 83117.*     | 1375.00            | 13.31       | 22.19  |               | 22.27        | 0.000295                              | 2.22         | 620.18       | 91.89        | 0.15         |
| raymondville  | reach 1                     | 83117.*     | 2192.00            | 13.31       | 22.96  |               | 23.10        | 0.000715                              | 3.06         | 789.72       | 428.49       | 0.23         |
| raymondville  | reach 1                     | 83117.*     | 3153.00            | 13.31       | 23.59  |               | 23.79        | 0.000928                              | 3.74         | 1174.92      | 892.46       | 0.26         |
| raymondville  | reach 1                     | 83117.*     | 7349.00            | 13.31       | 25.35  |               | 25.49        | 0.000737                              | 3.94         | 4925.86      | 4416.91      | 0.25         |
|               | e distriction of the second | s jaga ma   |                    |             |  |               |              |                                       |              |              |              |              |
| raymondville  | reach 1                     | 82617.*     | 1375.00            | 13.23       | 22.04  |               | 22.10        | 0.000355                              | 2.07         | 794.32       | 509.52       | 0.16         |
| raymondville  | reach 1                     | 82617.*     | 2192.00            | 13,23       | 22.70  |               | 22.79        | 0.000499                              | 2.66         | 1174.17      | 650.53       | 0.19         |
| raymondville  | reach 1                     | 82617.      | 3163.00            | 13.23       | 23.26  |               | 23.39        | 0.000628                              | 3.17         | 1692.56      | 1088.98      | 0.22         |
| raymondville  | reach 1                     | 82617.      | 7349.00            | 13.23       | 25.00  |               | 25.13        | 0.000682                              | 3.67         | 4655.06      | 4411.25      | 0.24         |
| 114-114       | y Arrighton Arm             |             | 1                  |             |  |               |              | 1                                     |              |              |              |              |
| raymondville  | reach 1                     | 82117       | 1375.00            | 13.15       | 21.93  |               | 21.97        | 0.000197                              | 1.63         | 1273.52      | 647.16       | 0.12         |
| raymondville  | reach 1                     | 82117       | 2192.00            | 13.15       | 22.54  |               | 22.59        | · · · · · · · · · · · · · · · · · · · | 2.13         | 1808.64      | 1064.45      | 0.15         |
| raymondville  | reach 1                     | 82117       | 3163.00            | 13.15       | 23.05  |               | 23.12        |                                       | 2.57         | 2382.97      | 1339.99      | 0.17         |
| raymondville  | reach 1                     | 82117       | 7349.00            | 13,15       |  |               | 24.86        | <del></del>                           | 3.03         | 5450.19      | 2277.35      | 0.18         |
|               | . 445. 52.2 91.             | er Rouge on |                    |             | T  |               |              | 1                                     |              |              |              | 515          |
| raymondville  | reach 1                     | 80117       | 1375.00            | 12.82       | 21.70  |               | 21.71        | 0.000083                              | 0.98         | 3376.75      | 3096,95      | 0.08         |
| raymondville  | reach 1                     | 80117       | 2192.00            | 12.82       | 22.31  | 1             | 22.32        |                                       | 0.99         | 5533.88      | 4008.02      | 0.07         |
| raymondville  | reach 1                     | 80117       | 3163.00            | 12.82       | 22.84  | <del></del>   | 22.85        |                                       | 0.97         | 7693.59      | 4113.29      | 0.07         |
| raymondville  | reach 1                     | 80117       | 7349.00            | 12.82       |  |               | 24.65        | +                                     | 0.94         | 17197.49     |              | 0.06         |
| 14)11011414   | - Italian                   | 1           | 1 10,0,00          |             |  |               |              |                                       |              |              | 333333       |              |
| raymondville  | reach 1                     | 79415       | 1375.00            | 12.71       | 21.53  | <del> </del>  | 21.61        | 0.000295                              | 2.24         | 614.59       | 89.35        | 0.15         |
| raymondville  | reach 1                     | 79415       | 2192.00            | 12.71       | 22.01  |               | 22.19        |                                       | 3.33         | 657.97       | 91.27        | 0.22         |
| raymondville  | reach 1                     | 79415       | 3163.00            | 12.71       | 22.38  | -             | 22.70        | +                                     | 4.57         | 691.62       | 92.73        | 0.30         |
| raymondville  | reach t                     | 79415       | 7349.00            | 12.71       | 22.85  | 20.48         | 24.40        |                                       | 9.99         | 735.60       | <del></del>  | 0.63         |
| Iayiikikuvale | 1000411                     | 79413       | 1349.00            | 12.11       | 22.00  | 20.40         | 24.40        | 0.005015                              |              | 733.00       | 24.01        | 0.03         |
|               | conch 1                     | 78117       | 1375.00            | 12,50       | 21.38  | <del> </del>  | 21.39        | 0.000095                              | 1,11         | 3435.36      | 4035,66      | 0.08         |
| raymondviile  | reach 1                     |             |                    | 12.50       | <del>,                                      </del> |               | 21.92        | ·•                                    | 1.04         | 5608.79      |              | 0.08         |
| raymondville  | reach 1                     | 78117       | 2192.00<br>3163.00 | 12.50       | +  | +             | 22.37        | +                                     | 1.04         | <del></del>  | <del></del>  | 0.07         |
| raymondville  | reach 1                     | 78117       | 7349.00            | 12.50       |  | <del> </del>  | 23.63        | <del>)</del>                          | 1.00         | 14226.35     | <del></del>  | 0.07         |
| raymondville  | reach 1                     | 78117       | 7,349,00           | 12.50       | 23.63  | <del> </del>  | 23.63        | 0.000013                              | 1.23         | 19220.33     | 3031.91      | 0.06         |
|               |                             | 70447       | 1375.00            | 12.17       | 21.26  |               | 21.27        | 0.000048                              | 0.80         | 4682.51      | 4195.95      | 0.06         |
| raymondville  | reach 1                     | 76117       | +                  |             |  | 1             |              | +                                     | 0.80         | +            | <del></del>  | <del></del>  |
| raymondville  | reach 1                     | 76117       | 2192.00            | 12.17       | 21.82  |               | 21.82        | +                                     |              | •            |              | 0.06         |
| raymondville  | reach 1                     | 76117       | 3163.00            | 12.17       |  | +             | 22.27        |                                       | 0.85         |              | <del></del>  | 0.06         |
| raymondville  | reach 1                     | 78117       | 7349.00            | 12.17       | 23.51  | 1             | 23.51        | 0.000056                              | 1.07         | 15549.53     | 6000,00      | 0.07         |
|               | 7 6 7 7                     | 74040       | 1075 00            | 44.50       |  | <del></del>   | 04.45        | 0.000047                              | - 0.00       | 4404.70      | 4070.00      | ļ            |
| rzymondville  | reach 1                     | 74240       | 1375.00            | 11,86       |  |               | 21.16        |                                       | 0.80         |              | +            | 0.06         |
| raymondvilla  | reach 1                     | 74240       | 2192.00            | 11.86       | +  | <del></del>   | 21.74        |                                       | -            |              |              | 0.06         |
| raymondville  | reach 1                     | 74240       | 3163.00            | 11.86       |  | <del></del>   | 22.18        |                                       | 0.86         | <del></del>  | 1            | 0.06         |
| raymondville  | reach 1                     | 74240       | 7349.00            | 11,86       | 23.40  | <b>'</b>      | 23.41        | 0.000056                              | 1.08         | 15335,94     | 6000,00      | 0.07         |
|               |                             |             |                    |             | <del> </del>                                       |               |              | 0.000048                              | 0.00         | 4474.04      | 4004 43      |              |
| raymondville  | reach-1                     | 74117       | 1375.00            | 11.84       |  | +             | 21.17        |                                       | 0.80         |              |              |              |
| raymondviile  | reach 1.                    | 74117       | 2192.00            | 11.84       | <del></del>  |               | 21.74        |                                       | 0.80         | -            | -            |              |
| raymondville  | reach 1                     | 74117       | 3163.00            | 11.84       |  |               | 22.18        |                                       | 0.87         |              |              |              |
| raymondville  | reach 1                     | 74117       | 7349.00            | 11,84       | 23.39  | <del>'</del>  | 23.40        | 0.000057                              | 1.09         | 15295.76     | 6000.00      | 0.07         |
|               |                             | 74200       | 1                  |             |  | <del> </del>  | <del> </del> |                                       |              | 1100         |              |              |
| raymondville  | reach:1                     | 71592       | 1375.00            |             | <del></del>  | +             | 21,07        |                                       |              | <del></del>  |              |              |
| raymondville  | reach 1                     | 71592       | 2192.00            |             |  | <del></del>   | 21.66        |                                       | 0.80         | <del></del>  |              |              |
| raymondville  | reach 1                     | 71592       | 3163.00            |             |  |               | 22.09        |                                       |              | <del></del>  | <del></del>  |              |
| raymondville  | reach 1                     | 71592       | 7349.00            | 11.42       | 2 23.28  | <u>'</u>      | 23.29        | 0.000062                              | 1.15         | 14757.04     | 6000.00      | 0.07         |
|               |                             | -           |                    |             |  |               | 00.0         | 0.00000                               | <del> </del> | 2000 5       | 3050 5       | ļ            |
| raymondville  | reach 1                     | 69075       | 1528,00            |             |  | +             | 20.9         | +                                     |              | <del></del>  | +            |              |
| raymondville  | reach 1                     | 69075       | 2336,00            | <del></del> |  |               | 21.5         | +                                     | +            |              | <del></del>  | <del></del>  |
| raymondville  | reach 1                     | 69075       | 3404.00            |             |  |               | 21.90        | <del></del>                           | <del></del>  |              | +            |              |
| raymondville  | reach 1                     | 69075       | 8267.00            | 11.0        | 1 23.1   | <del>' </del> | 23.1         | 1 0.000074                            | 1.26         | 15482.19     | 6000.00      | 0.04         |
| ļ             |                             |             |                    |             | 4  |               |              |                                       |              | <del> </del> | <del> </del> |              |
| raymondville  | reach 1                     | 66802       | 1526.00            |             |  |               | 20.6         | <del> </del>                          |              |              | +            |              |
| raymondville  | reach 1                     | 66802       | 2338.00            |             |  |               | 21.4         |                                       | ·            |              |              |              |
| raymondville  | reach 1                     | 66802       | 3404.00            |             |  |               | 21.8         | +                                     |              |              |              |              |
| raymondville  | reach 1                     | 86802       | 8267.00            | 10.6        | 4 22.93  | <u> </u>      | 22.9         | 3 0.000074                            | 1.26         | 5 15615.21   | 6000.0       | 0.0          |
|               |                             | 4           | 4                  | <del></del> |  | _             | <del></del>  |                                       | <del> </del> |              |              |              |
| raymondville  | reach 1                     | 64802       | 1526.00            | -           |  |               | 20.4         |                                       |              |              |              | <del>+</del> |
| raymondville  | reach 1                     | 64802       | 2336.00            |             |  |               | 21.2         | <del>-</del>                          |              |              |              |              |
| raymondville  | reach 1                     | 64802       | 3404.00            |             |  | <del></del>   | 21.6         | <del></del>                           | <del>†</del> | <del></del>  |              |              |
| raymondville  | reach 1                     | 64802       | 8267.00            | 10.3        | 1 22.7   | 5             | 22.7         | 6 0.00009                             | 1.4          | 0 14549.0    | 2 6000.0     | 0.0          |
|               |                             |             |                    | 1           | 1  |               | 1            |                                       | <u> </u>     | ļ            | ļ            |              |
| raymondville  | reach 1                     | 62802       | 1526.00            | · +         | <del>-</del>                                       |               | 19.9         |                                       |              |              | <del></del>  |              |
| raymondville  | reach 1                     | 62802       | 2336.00            |             | _+   |               | 21.1         |                                       | <del></del>  |              |              |              |
| raymondville  | reach 1                     | 62802       | 3404.00            |             |  | 4             | 21.5         |                                       | <del></del>  |              |              | <del></del>  |
|               |                             | 62802       | 8267.00            | 9.9         | 8 22.5   | R I           | 22.5         | 9 0.00008                             | 1.3          | 4 15126.0    | 4 6000.0     | 0.0          |

| River                                   | Plan P 50% I<br>Reach | River Sta            | A)<br>Q Total      | Min Ch El    | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Slope           | Vet Chri     | Flow Area          | Top Width          | Froude # Chl  |
|---|-----------------------|----------------------|--------------------|--------------|----------------|--|----------------|----------------------|--------------|--------------------|--------------------|---------------|
| MAGE                                    | Reaci                 | Niver Sta            | (cfs)              | (ft)         | (ft)           | (ft)   | (ft)           | (ft/ft)              | (ft/s)       | (sq ft)            | (ft)               | Frouce & City |
|   |                       |                      | ,( <b></b> )       | (1)          |                |  | 114            | troid                | 1007         | : fad in           |                    |               |
| raymondville                            | reach 1               | 61180                | 1526.00            | 9.65         | 19.39          |  | 19.47          | 0.000251             | 2,18         | 698.46             | 93.02              | 0.14          |
| raymondviile                            | reach 1               | 61180                | 2336.00            | 9.65         | 20.73          |  | 20.82          | 0.000301             | 2.57         | 1624.80            | 2284.27            | 0.16          |
| raymondville                            | reach 1               | 61180                | 3404.00            | 9.65         | 21.17          |  | 21.25          | 0.000478             | 2.75         | 2891.50            | 3505.61            | 0.19          |
| raymondville                            | reach 1               | 61180                | 8267.00            | 9,65         | 22.21          |  | 22.26          | 0.000418             | 2.84         | 8114,62            | 6000.00            | 0.18          |
| <u> </u>                                | 100 (C)               |                      |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 81130                | 1526.00            | 9.64         | 19.38          |  | 19.46          | 0.000251             | 2.19         | 698.22             | 93.01              | 0.14          |
| raymondville                            | reach 1               | 81130                | 2336.00            | 9.64         | 20,72          |  | 20.82<br>21.24 | 0.000302             | 2.58<br>2.79 | 1608.15            | 2261.06<br>3450.36 | 0.16<br>0.19  |
| raymondville<br>raymondville            | reach 1               | 61130<br>61130       | 3404.00<br>8267.00 | 9.64<br>9.64 | 21.15<br>22.18 |  | 22.23          | 0.000493             | 2.79         | 2828.26<br>7929.01 | 6000.00            | 0.19          |
| Tayleti Kiyille                         | (Idea)                | 07130                | 0201.00            | 0.04         | 22.10          |  | 22.23          | 0.000441             | 2.51         | 1828.01            | 0000.00            | 0.13          |
| raymondville                            | reach 1               | 60777                | 1526.00            | 9,58         | 19.29          |  | 19.37          | 0.000254             | 2.19         | 695.47             | 92.90              | 0.14          |
| raymondville                            | reach 1               | 60777                | 2336.00            | 9.58         | 20.72          |  | 20.73          | 0.000126             | 1.42         | 5052.51            | 6000.00            | 0.10          |
| raymondville                            | reach 1               | 60777                | 3404.00            | 9,58         | 21.13          |  | 21.14          | 0.000104             | 1.34         | 7538.68            | 6000.00            | 0.09          |
| raymondville                            | reach 1               | 60777                | 8267.00            | 9,58         | 22.14          |  | 22.15          | 0.000116             | 1.55         | 13580,94           | 6000.00            | 0.10          |
|   |                       | i Canalia            |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 58786                | 1526.00            | 9.26         | 18.76          |  | 18.84          | 0.000276             | 2.26         | 675.91             | 92.05              | 0.15          |
| raymondville                            | reach 1               | 58786                | 2336.00            | 9.26         | 20.22          |  | 20.30          | 0.000419             | 2.50         | 2102.57            | 6000.00            | 0.18          |
| raymondville                            | reach 1               | 58788                | 3404.00            | 9.26         | 20.84          |  | 20.87          | 0.000187             | 1.78         | 5848.08            | 6000.00            | 0.12          |
| raymondville                            | reach 1               | 58786                | 8267.00            | 9.26         | 21.86          |  | 21.87          | 0.000169             | 1.85         | 11926.61           | 6000.00            | 0.12          |
| raymondville                            | reach 1               | 58696                | 1526.00            | 8.92         | 18,15          |  | 18.23          | 0.000307             | 2.34         | 650.90             | 90.96              | 0.15          |
| raymondville                            | reach 1               | 56696                | 2336.00            | 8.92         | 19.22          |  | 19.37          | 0.000307<br>0.000478 | 3.11         | 750.54             | 95.24              | 0.13          |
| raymondville                            | reach 1               | 56696                | 3404.00            | 8.92         | 19.86          | 13.85  | 20.13          | 0.000809             | 4.19         | 812.73             | 97.82              | 0.26          |
| raymondville                            | reach 1               | 58898                | 8267.00            | 8.92         | 21.27          |  | 21.32          | 0.000450             | 2.92         | 8326.42            | 6000.00            | 0.19          |
|   | lind Pro-             | ed fight in the      |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 56844                | 1526.00            | 8.91         | 18.13          |  | 18.22          | 0.000308             | 2.35         | 650.34             | 90.93              | 0.15          |
| raymondville                            | reach 1               | 56844                | 2336.00            | 8.91         | 19.19          |  | 19.34          | 0.000481             | 3.12         | 749.05             | 95.18              | 0.20          |
| raymondville                            | reach 1               | 56644                | 3404.00            | 8.91         | 19.83          |  | 20.10          | 0.000816             | 4.20         | 810.28             | 97.72              | 0.26          |
| raymondville                            | reach f               | 56644                | 8267.00            | 8.91         | 21.24          |  | 21.29          | 0.000475             | 2.99         | 8153.10            | 6000.00            | D.19          |
|   |                       | E0400 Nt             | 4500.00            | 0 01         | 47 OP          |  | 18.07          | 0.000317             | 2.37         | 643.87             | 90.64              | 0.16          |
| raymondville<br>raymondville            | reach 1               | 56166.2*<br>56186.2* | 1526.00<br>2336.00 | 8.83<br>8.83 | 17.98<br>19.00 |  | 19.12          | 0.000317             | 2.90         | 1231.68            | 1015.18            | 0.18          |
| raymondville                            | reach 1               | 56166.2*             | 3404.00            | 8,83         | 19.63          |  | 19.76          | 0.000504             | 3.28         |                    | 1344.99            | 0.20          |
| raymondville                            | reach 1               | 56166.2"             | 8267.00            | 8.83         | 21.04          |  | 21.08          | 0.000393             | 2.70         |                    | 6000.00            | 0.18          |
|   |                       | A See All            |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 55688,5*             | 1526.00            | 8.75         | 17.90          |  | 17.94          | 0.000186             | 1.81         | 1538.83            | 998.44             | 0.12          |
| raymondville                            | reach 1               | 55688.5*             | 2336.00            | 8.75         | 18.96          |  | 18.99          | 0.000149             | 1.73         | 2794.32            | 1314.39            | 0.11          |
| raymondville                            | reach t               | 55688.5°             | 3404.00            | 8.75         | 19.56          |  | 19.59          |                      | 1.94         | 3676.24            | 2866.30            | 0.12          |
| raymondville                            | reach 1               | 55688.5*             | 8267.00            | 8.75         | 20.90          |  | 20.93          | 0.000251             | 2.15         | 9447.60            | 5567.23            | 0.14          |
|   |                       |                      |                    |              |                |  |                |                      | ļ            |                    |                    |               |
| raymondville                            | reach 1               | 55210.7*             | 1526.00            | 8.67         | 17.88          |  | 17.68          | +                    | <del></del>  | 3048.50            | 1273.89            |               |
| raymondville                            | reach 1               | 55210.7*             | 2335.00<br>3404.00 | 8.67<br>8.67 | 18.94<br>19.53 |  | 18.94<br>19.54 |                      | 1.00         | 4437.16<br>5677.42 | 1346.76<br>3319.73 |               |
| raymondville<br>raymondville            | reach 1               | 55210.7*<br>55210.7* | 8267.00            | <del></del>  | 20.82          |  | 20.83          | <del></del>          | +            | 11064.27           | 4720.67            |               |
| TAYLLOI MAING                           | I Carrie              | 10021011             | 0207.00            | 0.07         | 20.02          |  | 20.00          | 0.000140             | 1.55         | 71004.27           | 4720.07            | 2.7.          |
| raymondville                            | reach 1               | 54733                | 1597.00            | 8.59         | 17.71          | 11.76  | 17.81          | 0.000351             | 2.49         | 641.53             | 90.54              | 0.16          |
| raymondville                            | reach 1               |                      | 2442.00            |              |                | 12.65  |                |                      | <del></del>  |                    | 94.51              |               |
| raymondville                            | reach 1               | 54733                | 3556.00            | 8.59         | 19,09          | 13.65  | 19.43          | 0.001029             | 4.62         | 770.41             | 96.07              | 0.29          |
| raymondville                            | reach 1               | 54733                | 8659.00            | 8.59         | 20.45          | 17.14  | 20.65          | 0.001327             | 4.84         | 4849.32            | 4363.73            | 0.32          |
|   |                       |                      |                    |              |                |  |                |                      |              |                    |                    | <u> </u>      |
| raymondville                            | reach 1               | 54238.*              | 1597.00            |              | 17.53          |  | 17.63          |                      |              | 634.35             | 171.60             |               |
| raymondville                            | reach 1               | 54238.*              | 2442.00            |              | 18.50          |  | 18.59          |                      |              | <del></del>        |                    |               |
| raymondville                            | reach 1               | 54238.*<br>54238.*   | 3556.00<br>8659.00 |              |                |  | 18.95          |                      |              |                    |                    |               |
| raymondville                            | 184GH                 | J-1230.              | 0003.00            | 0.51         | 20.01          |  | 20.12          | 0.000012             | 7.33         | 3750.70            | 2500.00            |               |
| raymondville                            | reach 1               | 53743.*              | 1597.00            | 8.43         | 17.46          |  | 17.48          | 0.000191             | 1.56         | 2042.39            | 1694.57            | 0.12          |
| raymondville                            | reach 1               | 53743,*              | 2442.00            |              | +              |  | 18.46          |                      |              |                    |                    | 0.09          |
| raymondville                            | reach 1               | 53743.*              | 3556.00            | B.43         | 18.76          |  | 18.78          | 0.000162             | 1,66         | 4695.92            | 2308.97            | 0,1           |
| raymondville                            | reach 1               | 53743.*              | 8659.00            | 8.43         | 19.82          |  | 19.86          | 0.000322             | 2.58         | 7381.26            | 2808.31            | 0.16          |
| - 点述的 "                                 |                       |                      |                    | <u> </u>     | 1              |  |                | ļ                    |              |                    |                    | ļ             |
| raymondville                            | reach 1               | 53248.*              | 1597.00            | <del></del>  | +              |  | 17.4           |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 53248.*              | 2442.00            |              |                |  | 18.44          |                      |              |                    |                    | <del></del>   |
| raymondville                            | reach 1               | 53248.*              | 3556.00            |              |                |  | 18.7           | +                    |              |                    |                    |               |
| raymondville                            | reach 1               | 53248.*              | 8659.00            | 8.35         | 19.74          |  | 19.7           | 0.000134             | 1./5         | 10083.64           | 2900.00            |               |
| ramondiille                             | reach 1               | 52753                | 1379.00            | 8.27         | 17.43          | <del>                                     </del> | 17.4           | 3 0.00000            | 0,38         | 7021.92            | 2 2287.02          | 2 0.0         |
| raymondville<br>raymondville            | reach 1               | 52753                | 2028.00            |              |                |  | 18.4           |                      |              | <del></del>        |                    |               |
| raymondville                            | reach 1               | 52753                | 3083.00            | <del>+</del> | <del></del>    |  | 18.7           |                      |              | +                  |                    |               |
| raymondville                            | reach 1               | 52753                | 8075.00            |              | +              |  | 19.7           |                      |              | +                  |                    |               |
|   |                       | - 1                  |                    |              |                |  | T              |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 52344.3°             | 1379.00            |              |                |  | 17.4           |                      |              |                    |                    | <del></del>   |
| raymondville                            | reach 1               | 52344.3*             | 2028.00            |              |                |  | 18.4           |                      |              |                    | +                  |               |
| raymondville                            | reach 1               | 52344.3*             | 3083.00            |              |                |  | 18.7           |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 52344.3*             | 8075.00            | 8.20         | 19.6           | 7  | 19.6           | 8 0.00007            | 3 1.30       | 11975.7            | 3053.9             | 5 0.0         |
| 100000000000000000000000000000000000000 |                       |                      |                    | ļ            |                |  |                | 4 0.0000             | 4 05         | 7 4856.8           | 4 2290.7           | 4 0.0         |
| raymondville                            | reach 1               | 51935.7°             | 1379.00            |              |                |  | 17.4           |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 51935.7*<br>51935.7* | 2028.00<br>3083.00 |              |                |  | 18.4           |                      |              |                    |                    |               |

| River                        | Reach  | River Sta          | Q Total            | Min Ch El    | W.S. Elev      | Crit W.S.                             | E.G. Elev  | E.G. Slope   | Vel Chnl     | Flow Area   | Top Width  | Froude # Chi |
|------------------------------|--|--------------------|--------------------|--------------|----------------|---------------------------------------|--|--------------|--------------|-------------|--|--------------|
|                              | 200  |                    | (cfs)              | (ft)         | (ft)           | (ft)                                  | (ft)   | (fVft)       | (ft/s)       | (sq ft)     | (ft)   | \$ ".        |
| aymondville                  | reach 1  | 51935.7*           | 8075.00            | 8.13         | 19.63          |                                       | 19.64  | 0.000098     | 1.44         | 10837.42    | 3081.26  | 0.09         |
| raymondville                 | reach 1  | 51527.1*           | 1379.00            | 8.07         | 17.39          |                                       | 17.39  | 0.000034     | 0.64         | 4146.68     | 1897.47  | 0.05         |
| aymondville                  | reach 1  | 51527.1*           | 2028.00            | 8.07         | 18.40          |                                       | 18.40  | 0.000034     | 0.60         | 6355.32     | 2511.18  | 0.05         |
| raymondville                 | reach 1  | 51527.1*           | 3083.00            | 8.07         | 18.68          |                                       | 18.68  | 0.000042     | 0.81         | 7089.48     | 2656.74  | 0.06         |
| aymondville                  | reach 1:   | 51527.1*           | 8075.00            | 8.07         | 19.58          |                                       | 19.59  | 0.000133     | 1.59         | 9665.95     | 3103.90  | 0.10         |
| Haller Julia                 | - 445040000  | * E-15 38 E-1-6    |                    |              |                |                                       |  |              |              |             | 0.00.00  | <u> </u>     |
| aymondville                  | reach 1  | 51118.5°           | 1379.00            | 8.00         | 17.38          |                                       | 17.38  | 0.000027     | 0.69         | 4109.22     | 1591.54  | 0.05         |
| aymondville                  | reach 1  | 51118.51           | 2028.00            | 8.00         | 18.38          |                                       | 18,39  | 0.000023     | 0.69         | 5850.64     | 1828.17  | 0.04         |
| raymondville .               | reach 1  | 51118.5*           | 3083.00            | 8.00         | 18.66          |                                       | 18.67  | 0.000044     | 0.95         | 6362.11     | 1893.45  | 0.06         |
| raymondville                 | reach 1  | 51118.5*           | 8075.00            | 8.00         | 19.51          |                                       | 19.52  | 0.000176     | 1.72         | 8483.96     | 3003.24  | 0.12         |
| ( ) ( ) with a               | 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |                    |                    |              |                |                                       |  |              |              |             |  |              |
| raymondville                 | reach 1  | 50710              | 1379.00            | 7.93         | 17.27          | 10.84                                 | 17.34  | 0.000239     | 2.08         | 661.63      | 91.43  | 0.14         |
| aymondville                  | reach f  | 50710              | 2028.00            | 7.93         | 18.23          | 11.57                                 | 18.34  | 0.000360     | 2.70         | 750.87      | 95.25  | 0.17         |
| aymondville<br>aymondville   | reach 1  | 50710<br>50710     | 3083.00<br>8075.00 | 7.93<br>7.93 | 18.34          | 12.60                                 | 18.59  |              | 4.05         | 761.35      | 95.69  | 0.25         |
| ayıra Livne                  | I CACILI   | 30710              | 8073.00            | 1.90         | 19.44          | 16.13                                 | 19.46  | 0.000169     | 1.97         | 7963.22     | 2102.97  | 0.12         |
| aymondville                  | reach 1  |                    | 1379.00            | 7.86         | 17.17          | 10,77                                 | 17.24  | 0.000243     | 2.09         | 658.44      | 91.28  | 0.14         |
| aymondville                  | reach 1  | 50308.0            | 2028.00            | 7.86         | 18.08          | 11.50                                 | 18.19  | 0.000371     | 2.73         | 742.73      | 94.90  | 0.14         |
| aymondville                  | reach 1  | 50308.0*           | 3083.00            | 7.86         | 18.46          | 12.53                                 | 18.47  | 0.000048     | 1.00         | <b>+</b>    | 1925.47  | 0.06         |
| aymondville                  | reach 1  | 50308.0*           | 8075.00            | 7.86         | 19.37          | 16.06                                 | 19.39  | <del></del>  | 1.95         | 8052.26     | 2132.95  | 0.12         |
| 1974 27 199                  | i wasan da   | and the Edward Co. |                    |              |                |                                       |  | 1            |              |             |  |              |
| raymondville                 | reach 1  | 49906.0*           | 1379.00            | 7.80         | 17.07          | 10.71                                 | 17.14  | 0.000247     | 2.11         | 654.55      | 91.11  | 0.14         |
| raymondville                 | reach t  | 49908.0*           | 2028.00            | 7.80         | 17.91          | 11.44                                 | 18.03  | 0.000386     | 2.77         | 732.86      | 94.49  | 0.18         |
| raymondville -               | reach:1  | 49906.0*           | 3083.00            | 7.80         | 18.45          | 12.47                                 | 18.45  | 0.000046     | 0.98         | 6371.67     | 1996.75  | 0.06         |
| raymondville                 | reach 1  | 49908.0*           | 8075.00            | 7.80         | 19.31          | 16.00                                 | 19.33  | 0.000167     | 1.96         | 8179.27     | 2238.82  | 0.12         |
| 4 (2) (4) 4 (2)              | इ.च्याक्षीपुरास्ता ।   |                    |                    |              |                | , and the second                      |  |              |              |             |  |              |
| raymondville :               | reach 1  | 49504.0*           | 1379.00            | 7.73         | 16.96          | 10.65                                 | 17.03  |              | 2.12         | 651.39      | 90.98  | 0.14         |
| raymondville                 | reach 1  | 49504.0*           | 2028.00            | 7.73         | 17.75          | 11.37                                 |  | +            | 2.80         | <del></del> | 94.11  | 0.18         |
| raymondville                 | reach 1  | 49504.0*           | 3083.00            | 7.73         | 18.43          | 12.40                                 |  |              | 0.94         | 6351.61     | 2053.50  | 0.06         |
| raymondville                 | reach 1  | 49504.0°           | 8075.00            | 7.73         | 19.24          | 15.93                                 | 19.26  | 0.000171     | 1.98         | 8334.16     | 2396.40  | 0.12         |
| raymondville                 | reach 1  | 49102.0*           | 1379.00            | 7.67         | 16.86          | 10.58                                 | 16.93  | 0.000255     | 2.13         | 647.60      | 90.82  | 0.44         |
| raymondville                 | reach 1  | 49102.0*           | 2028.00            | 7.67         | 17.57          | 11.31                                 |  | <del></del>  | 2.13         | <del></del> | <del></del>                                      | 0.14<br>0.18 |
| raymondville                 | reach 1  | 49102.0*           | 3083.D0            | 7.67         | 18.33          |                                       | 18.39  |              | 2.49         | <del></del> | 2153.48  | 0.15         |
| raymondville                 | reach 1  | 49102.0*           | 8075.00            | 7.67         | 19.17          | 15.87                                 | 19,19  | -            | 1.66         |             | 2496.08  | 0.12         |
| Ayriconio                    | , cuan   | 10102.0            |                    | 7.07         |                | 10.02                                 | 13,14  | 0.000110     | 1.00         | 0010.02     | 2430.00  | 0,12         |
| raymondville                 | reach 1  | 48700              | 1379.00            | 7.60         | 16.76          | 10.51                                 | 16.83  | 0.000258     | 2.14         | 644.38      | 90,67  | 0.14         |
| raymondville                 | reach 1  | 48700              | 2028.00            | 7.60         | 17.39          | 11.24                                 | <del> </del>                                       |              | 2.88         |             |  | 0.19         |
| raymondville                 | reach 1  | 48700              | 3083.00            | 7.60         | 17.93          | 12.27                                 | <del></del>  | 0.000824     | 4.09         | 753.45      | 95.36  | 0.26         |
| raymondville                 | reach 1  | 48700              | 8075.00            | 7.60         | 19.10          | 15.80                                 | 19,11  | 0.000167     | 1.62         | 8703.17     | 2509.54  | 0.11         |
| 1115 11 111                  | e de la companya de l | * ***, *           |                    |              |                |                                       |  |              |              |             |  |              |
| raymondville                 | reach 1  | 48516.6*           | 1379.00            | 7.57         | 16.71          | 10,49                                 |  | •            | 2.15         | <del></del> | <del></del>                                      | 0.14         |
| raymondville                 | reach 1  | 48516.6*           | 2028.00            | 7.57         | 17.31          | 11.21                                 | +  | <del>†</del> | 2.91         | 697.90      | <del></del>                                      | 0.19         |
| raymondville                 | reach 1  | 48518.6*           | 3083.00            | 7.57         | 17.76          | 12.24                                 |  | +            | 4.17         |             | 94.80  | 0.26         |
| raymondville                 | reach 1  | 48516.6°           | 8075.00            | 7.57         | 19.07          | 15.77                                 | 19.08  | 0.000169     | 1.66         | 8721.67     | 2564.78  | 0.11         |
|                              |  | 48333.3°           | 1379.00            | 7,54         | 40.00          | 40.40                                 | 16.73  | 0.00000      | 2.15         | 640.85      | 20.50  |              |
| raymondville<br>raymondville | reach 1  | 48333.3°           | 2028.00            | 7.54         | 16.66<br>17.22 | 10.46<br>11.18                        | <del>i                                      </del> | +            | 2.13         | +           | <del>                                     </del> | <del></del>  |
| raymondville                 | reach 1  | 48333.3°           | 3083.00            | 7.54         | 17.57          | 12.21                                 | <del></del>  | +            |              |             |  | <del></del>  |
| raymondville                 | reach 1  | 48333.3*           | 8075.00            | 7.54         | 19.04          | <del></del>                           | +  | <del></del>  |              |             | <del></del>                                      | <del></del>  |
|                              |  |                    | 1                  | <del></del>  | 15.54          |                                       | 1  | 1            | <del></del>  | 1           |  | 1            |
| raymondville                 | reach 1  | 48150              | 1379.00            | 7.51         | 16.61          | 10.42                                 | 16.68  | 0.000264     | 2.16         | 639.34      | 90.45  | 0,14         |
| raymondville                 | reach 1  | 48160              | 2028.00            | 7.51         | 17.14          |                                       | 17.07  |              | 2.95         |             |  |              |
| raymondville                 | reach 1  | 48150              | 3083.00            | 7.51         | 17.39          |                                       |  | +            | 4.34         | <del></del> | +  |              |
| raymondville                 | reach 1  | 48150              | 8075.00            | 7.51         | 19.01          | 15.71                                 | 19.03  | 0.000170     | 1.73         | 9125.36     | 3194.08  | 0.12         |
| 2000                         | 1 12 12  |                    | -                  | <u> </u>     | -              |                                       |  | 1            |              | ļ           | ļ  | ļ            |
| raymondville                 | reach:1  | 47686."            | 1379.00            |              | 16.48          |                                       |  |              | 2.17         |             |  |              |
| raymondville                 | reach 1  | 47686.*            | 2028.00            |              |                |                                       |  |              |              |             |  |              |
| raymondville                 | reach 1  | 47686.*            | 3083.00            |              |                | <u>+</u>                              | <del></del>  |              |              |             | <del>•</del>                                     | 0.11         |
| raymondville                 | reach 1  | 47686.*            | 8075,00            | 7.43         | 16.89          | 15.63                                 | 10.91  | 0.000197     | 1.92         | 8768.13     | 3505.30  | 0.13         |
| raymondville                 | reach 1  | 47222.*            | 1379.00            | 7.38         | 16.33          | 10.28                                 | 16.40  | 0.0003B3     | 2.13         | 646.88      | 1927.97  | 0.17         |
| raymondville                 | reach 1  | 47222.*            | 2028.00            |              |                |                                       |  |              |              |             |  |              |
| raymondville                 | reach 1  | 47222.*            | 3083.00            |              |                |                                       | <del></del>  |              |              |             | +  | <del></del>  |
| raymondville                 | reach 1  | 47222.*            | 8075.00            |              |                |                                       | +  | <del></del>  |              |             |  |              |
|                              |  |                    | 1                  | 1            |                | 1                                     |  |              |              |             |  | 1            |
| raymondville                 | reach 1  | 48758.*            | 1379.00            | 7.28         | 16.28          | 10.20                                 | 16.30  | 0.000105     | 1.10         | 2278.79     | 1378,76  | 0.0          |
| raymondville                 | reach 1  | 46758.*            | 2028.00            |              |                |                                       | +  |              |              | +           | +  | <del></del>  |
| raymondville                 | reach f  | 46758.*            | 3083.00            |              |                |                                       |  |              |              | <del></del> |  |              |
| raymondville                 | reach 1  | 46758.*            | 8075.00            | 7.28         | 18.65          | 16.02                                 | 18.6   | 0.000215     | 2.1          | 8779.3      | 3738.42  | 0.1          |
|                              |  |                    |                    |              |                |                                       |  | <u> </u>     |              | L           | 1  |              |
| raymondvilla                 | reach 1  | 46294.*            | 1379.00            |              | 16,25          |                                       |  | +            | <del>•</del> |             | +  | <del></del>  |
| raymondville                 | reach 1  | 46294."            | 2028.00            |              | 16.68          | · · · · · · · · · · · · · · · · · · · |  |              |              |             |  | •            |
| raymondville                 | reach 1  | 46294."            | 3083.00            | <del></del>  |                |                                       |  |              |              |             |  |              |
| raymondville                 | reach 1  | 48294.*            | 8075.00            | 7.21         | 18.54          | 15.51                                 | 1 18.5   | 7 0.000211   | 2.14         | 6979.7      | 3765.56  | 0.1          |
|                              | <del> </del>   | 45830              | 1379.00            | <del> </del> |                |                                       |  | 0.555        |              | 3460.6      | 1 1847.87  | 0.0          |
| raymondville                 | reach 1  |                    |                    | 7.13         | 16.23          | 3 10.04                               | 4 16.2   | 3 0.000040   | 0.7          | 3.460 R     |  |              |

HFC-RAS Plan. P. 50% D. (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (11) (ft/ft) **(ft)** (ft/s) (sq ft) (ft): raymondville 0.00008 45830 3083.00 7.13 17.09 11.80 17 10 5198.75 2380.27 0.08 raymondville reach 1 45830 8075.00 7.13 18.45 15.00 18.48 0.000194 2.11 9269.65 3724.06 0.13 raymondville reach 1 1379.00 45414 7.06 16.20 9.97 16.21 0.000042 0.80 3444.77 1910.18 0.06 raymondville reach 1 45414. 2028.00 7.06 16.62 10.70 16.62 0.000059 0.99 4269.74 2061.68 0.07 raymondville reach 1 45414 3083.00 7.06 17.05 11.73 17.06 0.000086 1.25 5197.37 2281.05 0.08 raymondville reach 1 45414. 8075.00 7.06 18.38 15.00 18.41 0.000180 2.03 9557.38 3776.82 0.12 raymondville reach 1 44998 1379.00 6.99 16 18 9.91 16 19 0.000045 0.84 3457.71 2023.19 0.06 raymondville 44998 reach 1 2028.00 6.99 16.59 10.63 16.59 0.000060 1.00 4292.31 2119.09 0.07 raymondville reach 1 44998. 3083.00 1.99 17.02 11.66 17.03 0.000095 1.32 5297.31 2726.36 0.09 raymondville 44998. reach 1 8075.00 5.99 18,32 15.00 18.34 0.000169 1.96 9904.06 4211.33 0.12 raymondville 44582 1379.00 reach 1 6.93 16.15 9.84 16.16 0.000047 0.85 3477,69 2096.29 0.06 raymondville reach 1 44582. 2028.00 6.93 16.56 10.57 16.56 0.000072 1.10 4408.33 2703.11 0.07 raymondville reach 1 44582 3083.00 6.93 16 98 11.60 16 99 0.00009 1.31 5597.69 2890.94 0.09 raymondville 44582. reach 1 8075.00 6.93 18.26 15,00 18.27 10691.21 0.000157 1.89 4439.31 0.11 44166 raymondville dacti 1 1379.00 6.86 16.13 9.77 16 13 0.000054 0.92 3620.12 2715.79 0.06 raymondville 44168 2028.00 reach 1 6.86 16.52 10.50 16.53 0.000063 1.03 4724.81 2811.32 0.07 raymondville each 1 44166 3083.00 6.86 16.94 11 53 16 95 0.00008 1.22 6082.18 3763.13 0.08 44166 raymondville 8075.00 ach 1 6.86 18.21 15.00 18.22 0.000125 1.68 11546,37 4439.09 0.10 raymondvilla 43750 1379.00 6.79 16.10 9.70 16 10 0.000045 0.84 4033.88 3411.95 0.06 raymondville reach 1 43750 2028.00 6.79 16.49 10.43 16.50 0.000051 0.93 5429.60 3611.31 0.06 raymondville reach 1 43750 3083.00 6.79 16.90 11.46 16.91 0.000071 1.14 6987.98 3998.02 0.08 raymondville reach 1 43750 12404.17 6.79 8075.00 18.16 15.00 18,17 0.000100 1.51 4439.10 0.09 raymondville reach 1 43313.6\* 1379.00 6.72 16.07 16.07 0.00006 0.96 3524 66 3343.68 0.07 raymondville reach 1 43313.6\* 2028.00 6.72 16.46 16 47 0.000067 1.05 4924 73 3722.27 0.07 raymondville reach 1 43313.61 3083.00 6.72 16.87 16.88 0.000086 1 24 6498 01 3977.38 0.08 raymondville 43313.6\* reach 1 8075.00 6.72 18,11 18.13 0.000115 1.59 11877.71 4448,02 0.10 raymondville 42877.2 1379.00 6.65 16.03 16.04 0.000086 1.12 2998.04 3368 64 0.08 raymondville reach 1 42877.2 2028.00 6.65 16.42 16.43 0.000096 1.24 4433 32 3806.70 0.09 raymondville reach 1 42877.2\* 3083.00 6.65 16.82 16.83 0.000108 1.36 5970.02 3937.15 0.09 raymondville each 1 42877.2\* 8075.00 6.65 18.06 18.07 0.000134 1.70 11316.76 4472.91 0.11 42440.8 raymondville each 1 1379.00 6.57 15,96 15.99 0.000130 1.35 2451.87 3203.25 0.10 raymondville 42440.8 reach 1 2028.00 6.57 16.37 16 38 0.000125 1 39 3912.72 3724.01 0.10 42440.81 raymondville reach 1 3083.00 6.57 16.76 16.77 0.000138 1.52 5396.47 3847.86 0.10 raymondville 42440.81 8075.00 reach 1 6,57 17.99 18.01 0.000159 1.83 10718.18 4526.56 0.11 raymondville reach 1 42004.4 1379.00 6.50 15.89 15 91 0.000172 1.53 1917.07 2622.09 0.11 raymondville reach 1 42004.4\* 2028.00 6.50 16,30 16,32 0.000172 1.60 3346.87 3697.12 0.11 raymondville 42004.4\* 3083.00 6.50 reach 1 16.68 16.70 0.000184 1.72 4767.86 3750.12 0.12 raymondville 42004.4 8075.00 reach 1 6.50 17.91 17.93 0.000204 2.04 10227.22 5443.37 0.13 raymondville reach 1 41568 1379.00 15.79 6.43 15.83 0.000220 1.69 1498.21 2010.91 0.13 raymondville 41568 2028.00 6.43 16.19 16.23 0.000259 1.92 2653.07 3659.27 0 14 raymondville reach 1 41568 3083.00 6.43 16.58 16.61 0.000264 2.02 4072.52 3721 38 0.14 raymondville reach 1 41568 6.43 17.83 0.000213 17.85 2.05 10612.49 6000.00 0.13 39543 1379.00 raymondville reach 1 6.10 15.62 15.62 0.000055 4950.07 0.70 5100.64 0.06 raymondville reach 1 39543 2028.00 6.10 16.02 16.02 0.000050 0.71 7033.92 6000.00 0.06 raymondville reach 1 39543 3083.00 6.10 16.39 16.39 0.000054 0.78 9244.04 6000.00 0.06 raymondville reach 39543 8075.00 6.10 17.63 17.63 0.000061 0.96 16662.43 6000.00 0.07 37135 1379.00 5.71 15.55 8.63 15.**5**5 0.000017 0.47 6466,45 4749.90 0.04 raymondville 37135 reach 1 2028.00 5.71 15.95 9.35 15.95 0.000020 0.54 8453.75 5104.93 0.04 reach 1 37135 3083.00 raymondville 5.71 16.29 10.38 0.70 16.29 0.000031 10242.68 5378.81 0.05 37135 raymondville reach 1 8075.00 5.71 17.49 13.91 17.49 0.000053 1.03 16885.75 5694.04 0.07 raymondville reach 1 34845 1714.00 5.33 15.40 15.44 0.000220 1.73 2510.61 4563.81 0.13 raymondville reach 1 34845 2255.00 5.33 15.83 15.85 0.000135 1.42 4499.93 4727.52 0.10 raymondville reach 1 34845 2856.00 5.33 16.16 16.17 0.000108 1.32 6063.59 4856.38 0.09 raymondville reach 1 34845 7259.00 17.31 5.33 17.33 0.000120 1,55 12176.96 6000.00 0.10 raymondville each 1 34786 1714.00 5.32 15,38 15.42 0.000242 1.81 2317.11 4556.48 0.13 raymondville reach 1 34786 2255.00 5.32 15.82 15.84 0.000145 1.48 4335.59 4722.59 0.10 reach 1 34788 2856.00 5.32 raymondville 16.15 0.000114 1.36 5918.32 4853.13 0.09 raymondville reach 1 34788 7259.00 5.32 17.31 17.32 0.000123 1.57 12023.85 6000,00 0.10 raymondville mach 1 32585 1714 00 4.96 14.67 14.74 0.000408 2.28 1043.70 1133.11 0.17 raymondville reach 1 32585 2255.00 4.96 15.39 15.43 0.000246 3852.55 1.92 2999.29 0.14 raymondville reach 1 32585 2856.00 15.85 4.96 15.87 0.000155 4837.07 4106.89 1.60 0.11 raymondville reach 1 32585 7259.00 4.96 17.00 17.01 0.000157 1.79 10802.48 5488.50 0.11 raymondville reach 1 30564 1714.00 4.63 13.82 13.93 0.000393 2.65 651.73 114.58 0.17

HEC-RAS Plan. P 50% D (Continued) Q Total Reach River Sta Min Ch Ei W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (IVII) (fVs) (sq ft): raymondville reach 1 30564 2255.00 4.63 14 61 14.75 0.000475 3.05 912.78 898.14 0.19 raymondville 30564 reach 1 2856.00 4.63 15.25 15.37 0.000441 3.04 2048.00 3095 80 0.19 raymondville reach 1 30564 7259.00 4.63 16.54 16.57 0.000304 2.32 8905.61 6000.00 0.15 raymondvião reach 1 29170 1714.00 4.40 13 22 13.34 0.000459 2.79 613.82 89.31 0.19 raymondville reach/1 29170 2255.00 4.40 13.81 13.99 0.000623 3.38 668.09 91 71 0.22 raymondville reach 1 29170 2856.00 4.40 14 30 14.55 0.000830 712.64 4.01 93.63 0.26 raymondviile reach 1. 29170 7259.00 4.40 16.00 16.07 0.000612 3.24 6769.10 6000.00 0.22 raymondville 28867.7 reach 1 1714.00 4.35 13 07 13.19 0.000482 2.83 605.36 89.47 0.19 raymondville reach 1 28867.7 2255.00 4.35 13.61 13.79 0.000669 3.45 654.05 91 93 0.23 raymondville reach 1 28867.7 2856.00 4.35 14 02 14.28 0.000903 4.10 744.36 444.14 0.27 raymondville reach 1 28887.7 7259.00 4.35 15.80 15.89 0.000689 3.51 6282.37 6000.00 0.23 raymondville reach:1 26565.55 1714.00 4.30 12.92 13.04 0.000497 2.83 685.41 316.05 0.19 28565.5 raymondville reach:1 2255.00 4.30 13.40 13.55 0.000888 3.24 889.85 549.79 0.25 raymondville 28565.5 reach-1 2856.00 4.30 13.80 13.97 0.000980 3.56 1127.59 630.05 0.27 rzymondviše reach 1 28565.5 7259.00 4.30 15.59 15.69 0.000739 3.70 5738.40 5786.85 0.24 raymondville reach 1 28263.2 1714.00 4.25 12.81 12.68 0.000468 2.31 1071.21 576.72 D 18 raymondville reach 1 28263.2 2255.00 4.25 13.24 13.32 0.000525 2.57 1331.64 633,89 0.19 raymondville reach 1 28263.2 2856.00 4.25 13.62 13.72 0.000606 2.87 1589.04 750.20 0.21 raymondville reach 1 28263.24 7259.00 4.25 15.38 15.49 0.000715 3.70 5492.24 5204.39 0.24 raymondville reach 1 27961 1714.00 4.20 12.74 12.77 0.000235 1.70 1570.27 639.60 0.13 raymondville reach 1 27961 2255.00 4.20 13.16 13 20 0.000290 1,98 1851.90 746.39 0.15 reach 1 27961 2856.00 4.20 0.000338 13,52 13.57 2.21 2139.81 816.95 0.16 raymondville reach 1 27961 7259.00 4.20 15.19 15.28 0.000846 3.57 5478.46 4782.91 0.23 rzymondville reach 1 27505.2\* 1714.00 4.13 12.63 12.67 0.000249 1.74 1577.5 724.39 0.13 raymondville reach:1 27505.2\* 2255.00 4.13 13.03 13 07 0.000296 1.98 1886.69 821.50 0.15 raymondville reach 1 27505.2\* 2856.00 4.13 13.38 13.42 0.000337 2.19 2179.60 860.65 0.16 27505.2\* 7259.00 4.13 14.90 14.99 0.000635 3.49 5891.28 5106.96 0.23 27049.4\* 1714.00 raymondville reach:1 4.05 12.52 12 55 0.000255 1.74 1619.24 824.81 0.14 raymondville reach \$ 27049.4\* 2255.00 4.05 12.90 12.94 0.000289 1.94 1946.59 884.49 0.15 raymondville 27049.4\* reach 1 2856.00 4.05 13.23 13 28 0.000330 2.15 2300.04 1260.16 0.16 27049.4\* 7259.00 4.05 14.67 14.73 0.000470 2.98 6901.93 5380.90 0.19 raymondville reach 1 26593.6\* 1714.00 3.98 12.42 12.45 0.000234 1.66 1768.68 1096.39 0.13 reach 1 26593.61 2255.00 3.98 12,79 12.82 0.000256 1.82 2228.49 1364.94 0.14 rzymondville reach:1 26593.6\* 2856.00 3.98 13,10 13 14 0.000304 2.06 2733.16 2183.10 0.15 raymondville reach 1 26593.61 7259.00 3.98 14.54 14.57 0.000267 2.24 8709.15 5131.83 0.15 26137.8° raymondville reach 1 1714.00 3.90 12.34 12.36 0.000185 1 48 2192.22 1558.26 0.12 raymondville reach 1 26137.8\* 2255.00 3.90 12.68 12.71 0.000244 1.77 3244.14 2932.80 0.13 raymondville reach 1 26137.81 2856.00 3.90 13.00 13.02 0.000218 1.74 4116.03 4080.54 0.13 raymondville reach:1 26137.8\* 7259.00 3.90 14.46 14.47 0.000140 1.62 10876.60 4909.53 0.11 raymondville nearth 1 25882 1714.00 3.83 12.28 12.30 0.000131 1.25 3534 63 4063.17 0.10 raymondville mach 1 25682 2255.00 3.83 12.63 12.64 0.000105 1 17 4956.18 4115.05 0.09 raymondville reach 1 25882 2856.00 3.83 12.95 12,96 0.000091 1.13 6283.81 4163.46 0.08 reach 1 25682 7259.00 aymondville 3.83 14.43 14.43 0.000078 1.22 13232.35 4899.50 0.08 raymondville reach 1 25281 1714.00 3.76 12.25 12.25 0.000100 1.11 4044.38 4054 57 0.09 raymondville reach 1 25281.\* 2255.00 3.76 12.60 12.61 0.000082 1.05 5490.53 4121.23 0.08 raymondville mach f 25281 \* 2856.00 3.76 12.92 12.93 0.000081 1.08 6893.04 4654.45 0.08 raymondville reach 1 25281.\* 7259.00 3.76 14,40 14.41 0.000074 1.20 14400 93 6000.00 0.08 raymondville reach 1 24880.\* 1714 00 3.70 12.22 12.22 0.000071 0.95 4652.36 3810.09 0.07 raymondville reach 1 24880.\* 2255.00 3.70 12.57 12.58 0.000065 0.95 6081.35 4209.63 0.07 raymondville reach 1 2488D.\* 2856 00 3.70 12.90 12.91 0.000063 7572.73 0.97 4663.09 0.07 raymondville reach 1 24880. 7259.00 3.70 14.38 14.39 0.000058 1.08 15668.30 6000.00 0.07 1714.00 raymondville reach 1 24479.\* 3.63 12.20 12.20 0.000051 0.82 5339.50 3891.36 0.06 raymondvike reach f 24479." 2255.00 3.63 12.56 12.56 0.000048 6808.78 0.83 4400.81 0.06 raymondville reach 1 24479. 2856.00 3.63 12.89 12.89 0.000049 0.87 8396.18 4998.58 0.08 raymondville reach 1 24479. 7259.00 3.63 14.36 14.37 0.000046 0.97 16937.71 6000,00 0.06 24078. raymondville reach 1 1714.00 3.57 12 18 12.19 0.000037 6166.50 0.70 4144.97 0.05 raymondville reach 1 2407B. 2255.00 3.57 12.54 12.54 0.000036 7758.83 0.73 4865.35 0.05 raymondville reach 1 24078.\* 2856.00 3.57 12.87 12.87 0.000037 0.77 9425.27 5466.29 0.05 raymondville reach 1 24078.\* 7259.00 3.57 14.34 14.34 0.000037 0.88 18200.47 6000.00 0.06 raymondvike reach 1 23677 1714.00 3.50 12.16 12.17 0.000027 0.60 7145.76 4682.75 0.04 raymondville reach 1 23677 2255.00 3.50 12.52 12.53 0.000026 8905.42 0.62 5218.65 0.04 23677 raymondville reach 1 2856.00 3.50 12.85 12.85 0.000027 0.66 10699.55 5674.64 0.05 raymondvilla 7259.00 reach 1 23877 3.50 14.32 14.32 0.000030 0.80 19463.71 6000.00 0.05

HEC-RAS Plan. P 50% D (Continued) River Sta Q Total Min Ch E W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) **(ft)** (ft) (10) (#/ft) (sq ft) raymondville (ft) 21660 reach 1 1714 00 12.13 12.13 0.000013 10238.6 6000.00 0.03 raymondville reach 1 21880 2255,00 3.17 12.49 12.50 0.000012 0.42 12410,19 6000.00 0.03 raymondville reach 1 21660 2856.00 3.17 12.62 12.82 0.000013 14360.32 0.44 6000,00 0.03 raymondville reach 1 21660 7259.00 3.17 14.28 14.28 0.000018 0.60 23116.21 6000.00 0.04 raymondville reach 1 19606 1714.00 2.83 12.11 12.11 0.000013 0.42 10017.37 5923.16 0.03 raymondville reach 1 19606 2255 00 2.83 12.48 12.48 0.000012 0.43 12228.52 6000.00 raymondville 0.03 reach 1 19606 2856.00 2.83 12.80 12.80 0.000013 0.45 14140.04 6000.00 0.03 raymondville reach 1 19606 7259 00 2.83 14.25 14.25 0.000018 0.61 22848.45 6000,00 0.04 raymondville reach 1 19152.2\* 1714 00 2.75 12.10 12.10 0.000014 0.45 9715.97 6000.00 0.03 raymondville reach 1 19152.21 2255 00 2.75 12.46 12.46 0.000013 0.45 11917.39 6000.00 0.03 raymondville reach 1 19152.2" 2856.00 2.75 12.78 13843.21 12.78 0.000014 0.47 6000.00 0.03 raymondville reach 1 19152.21 7259.00 2.75 14.23 14.23 0.000019 0.63 22540.69 6000.00 0.04 raymondville 18898.5\* ach t 1714 00 2.68 12.08 12.08 0.000016 0.47 9418.09 6000.00 0.03 raymondville reach 1 18898.5\* 2255.00 2.68 12.45 12.45 0.000015 0.47 11607.85 6000.D0 raymondville 0.03 18698.5\* each 1 2856 00 2.68 12.77 12.77 0.000015 0.49 13547.96 6000.00 0.03 raymondville 18698.5\* reach 1 7259.00 2.68 14.22 14.22 0.000020 0.64 22234,52 6000,00 0.04 raymondville each 1 18244.7 1714 00 2.61 12.07 12.07 0.000017 0.49 9110.37 6000.00 0.04 raymondville each 1 18244.7\* 2255.00 2.61 12.43 12.43 0.000016 0.49 11288.46 6000.00 0.03 raymondville reach 1 18244.7 2856 00 2.61 12.76 12.76 0.000016 0.51 13242 88 6000.00 0.03 raymondville 18244.7\* 7259.00 2.61 14.20 14.20 0.000021 0.66 21918.51 6000.00 0.04 raymondville reach 1 17791 1714.00 2.53 12 05 12.05 0.000019 0.52 8812.48 6000.00 0.04 raymondville reach 1 17791. 2255.00 2,53 12.41 12.42 0.000017 0.52 10978.92 6000 00 0.04 raymondville 17791. 2856.00 2.53 12 74 12.74 0.000017 0.53 12947.63 6000 00 0.04 raymondville reach 1 17791 7259.00 2.53 14.19 14.19 0.000022 0.68 21612.34 6000.00 0.04 raymondville reach ' 17337.2 1714.00 2.45 12 04 12.04 0.000021 0.55 8516.46 6000.00 0.04 raymondville each ' 17337.2 2255.00 2.45 12.40 12.40 0.000019 0.54 10671.24 6000 00 0.04 raymondvilk each 1 17337.21 2856.00 2.45 12 73 12.73 0.000018 0.55 12654.25 6000.00 0.04 raymondville each 1 17337.2\* 7259.00 2.45 14.17 14.17 0.000023 21308.04 0.70 6000.00 0.04 raymondville each f 16883.5\* 1714.00 2.38 12.03 12.03 0.000024 0.58 8210.00 6000.00 0.04 raymondville reach 1 16883.51 2255.00 2.38 12.38 12.38 0.000021 0.57 10353.11 6000.00 0.04 raymondville reach 1 16883.5\* 2856.00 2 38 12.72 12.72 0.000020 0.57 12350.42 6000.00 0.04 raymondville reach 1 16863.5° 7259.00 2.38 14.16 14.16 0.000024 0.71 20993.29 6000.00 0.04 raymondville reach 1 16429.7 1714.00 2.31 12 00 12.01 0.000027 0.62 7863.27 6000.00 0.04 raymondville reach 1 16429.7\* 2255.00 2.31 12.37 12.37 0.000023 0.60 10041.55 6000 00 n n4 reach 1 16429.7 2856.00 2 31 12 70 12.70 0.000021 12053,16 0.59 6000.00 0.04 raymondville reach 1 16429.7\* 7259.00 2.31 14.14 14.14 0.000025 0.73 20685.10 6000.00 0.05 raymondville reach 1 15976 1714.00 2.23 11.98 11.98 0.000029 0.64 7522.41 5762.30 0.05 reach 1 raymondville 15976 2255.00 2.23 12.35 12.35 0.000025 0.62 9731.48 6000.00 0.04 raymondville reach 1 15976 2856.00 2.23 12.69 12.69 0.000023 0.62 11757.39 6000.00 0.04 15978 7259.00 2.23 14.12 14.13 0.000026 0.75 20378.41 6000.00 0.05 raymondville reach 1 15517.21 1714.00 2.16 11.94 11.96 0.000132 3703.64 5538.15 0.10 raymondville reach 1 15517.2\* 2255.00 2.16 12.32 12.33 0.000087 1.17 5882.29 5711.75 0.08 raymondville neach 1 15517.2\* 2856.00 2.16 12.67 12.67 0.000069 1.08 7865.54 6000.00 0.07 raymondville reach 1 15517.2 7259.00 2.16 14.10 14.10 0.000050 1.05 16469.44 6000.00 0.06 raymondville reach 1 15058.4 1714.00 2.08 11.82 11 87 0.000256 1.92 1508.19 1757.45 0.14 raymondville reach f 15058.4\* 2255.00 2.08 12.22 12.26 0.000266 2.04 2480.76 3334.25 0.14 raymondville reach 1 15058.4\* 2856.00 2.08 12.58 12.62 0.000238 3938,84 2.00 4873.07 0.14 raymondville reach 1 15058.4\* 7259.00 2.08 14.06 14.07 0.000112 1.57 12477.44 6000.00 0.10 raymondville reach 1 14599.6 1714.00 2.01 11.68 11.73 0.000291 2.03 1232.99 763.58 0.15 raymondville reach 1 14599.6\* 2255.00 2.01 12.05 12.12 0.000350 2.32 1559.95 1250.95 0.16 raymondville reach 1 14599 6 2856.00 2.01 12.40 12.47 0.000393 2.55 2131.76 2029.68 0.17 raymondville reach 1 14599.6 7259.00 13.95 2.01 13.99 0.000303 2.57 8052.72 5870.67 0.16 raymondville reach 1 14140.8 1714.00 1,93 11.53 11.59 0.000322 2 12 1101 66 0.15 656.86 raymondville reach 1 14140 8 2255.00 1.93 11.85 11.94 0.000414 2.49 1333 88 748.42 0.18 raymondville reach t 14140.8\* 2856.00 1.93 12.17 12.27 0.000498 2.82 1576 59 795.65 0.20 raymondville reach 1 14140.8 7259.00 1.93 13.65 13.77 0.000703 3.84 4608.66 3226.77 0.24 raymondville reach 1 13682 1714 00 1.86 11.37 11.44 0.000350 2 18 1008 04 528 14 0.16 raymondville reach 1 13682 2255.00 1.86 11.63 11.73 0.000486 2.65 1160 21 615.43 0.19 raymondville reach t 13682 2856.00 1.86 11.88 12.01 0.000633 3 11 1323 90 713.65 0.22

raymondville

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11672

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11672

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7259.00

1714 00

2255.00

2856.00

7259.00

1.86

1.53

1.53

1.53

1.53

12.96

10.91

11.16

11.40

12.30

0.001575

0.000176

0.000166

0.000156

0.000203

5.45

1.52

1.52

1.52

1.89

2317.48

3110.62

4277.29

5401.95

9955.04

1442.29

4476.22

4718 76

4832 DO

5302.67

0.35

0.11

0.11

D, 11

0.13

13.29

10.94

11.18

11.42

HEC-BAS Plan-P 50% D (Continued) River Reach Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (fl/ft) (ft/s) (sq ft) (ft) raymondville reach.1 9870 1714.00 1.20 10.34 10.40 0.000425 2.22 1627.95 3473.45 0.17 raymondville reach 1 9670 2255.00 1.20 10.72 10.76 0.000279 1.89 3335.57 4974.57 0.14 ravmondville reach 1 9870 2856.00 1.20 11.05 11.07 0.000197 1.65 4948.82 4988.98 0.12 raymondville reach 1 9670 7259.00 1.20 11.83 11.85 0.000271 2.10 8860.58 5023.75 0.14 raymondville reach 1 6234 1714.00 0.6 8.37 8 54 0.000749 3.30 518.92 84.96 0.24 raymondville mach:1 6234 2255.00 0.64 8.91 9.15 0.001009 3.99 565.55 87.13 0.28 raymondville reach 1 6234 2856.00 0.64 9.51 5.09 9 71 0.001300 3.90 1512.63 3570.69 0.30 raymondville reach 1 6234 7259.00 0.64 10.84 10.86 0.000341 2.33 8788.02 6000.00 0.16 0.31 raymondville reach 1 4339 1714.00 7.55 3.61 7.57 0.000310 1.18 1447.37 591.68 0.13 reach 1 raymondville 4339 2255.00 0.31 7.92 4.20 7.95 0.000363 1.34 1677.41 638.31 0.15 raymondville reach f 4339 2856.00 0.31 8.27 5.46 8 30 0.000413 1.50 1907.36 680.49 0.16 raymondville reach 1 4339 7259.00 0.31 9.81 6.59 9.90 0.000714 2.39 3037.40 810.57 0.22 rzymondville reach 1 4300 1714.00 0.30 7.53 3.60 7.56 0.000318 1.19 1435.04 590.10 0.13 rzymondviše reach 1 4300 2255.00 0.30 7.91 4.19 7.93 0.000372 1.36 1663.07 636.45 0.15 raymondville reach 1 4300 2856.00 0.30 8.25 5.49 8.29 0.000424 1.51 1890.92 679.46 0,16 raymondville reach 1 4300 7259.00 0.30 9.78 6.57 9.67 0.000732 2.41 3007.78 805.98 0.22 raymondville reach 1 3878 00\* 1714 00 0.23 7.38 7.40 0.000372 1 28 1335.20 554.59 0.15 rzymondville reach 1 3878.00° 2255 00 0.23 7.73 7.76 0.000434 1.47 1537.04 586.85 0.16 raymondville reach 1 3878.00° 2856.00 0.23 8.05 8.09 0.000488 1 65 1728.20 603.07 0.17 raymondville reach 1 3878.00\* 7259.00 0.23 9.46 9.55 0.000785 2.53 3657.63 2840.00 0.23 3456.00° raymondville reach 1 1714 00 0.16 7.21 7.24 0.000419 1.41 1216.8 480.84 0.16 raymondville 3456.00\* reach 1 2255.00 0.16 7.52 7.56 0.000508 1.65 1382.54 648.38 0.17 3456.00 raymondville reach 1 2856.00 0.16 7.81 7.87 1598.26 0.000612 1.86 851.34 0.19 raymondy reach 1 3456.00\* 7259.00 0.16 9.18 9.25 0.000633 2.39 4615.22 2820.02 0.21 3034.00 raymondville reach 1 1714.00 0.09 6.99 7.03 0.000540 1.62 1145.94 921.56 0.18 raymondville reach 1 3034.00° 2255.00 0.09 7.28 7.33 0.000571 1.79 1675 32 1901.01 0.19 raymondville reach 1 3034.00° 2856.00 0.09 7.57 7.62 0.000547 2009.77 1.85 2240.99 0.18 raymondville reach 1 3034.001 7259.00 0.09 8.98 9.02 0.000423 2.10 5818.63 2860.38 0.17 2612.00° raymondville reach 1 1714 00 0.02 6.84 6.86 0.000307 1 41 2172 83 2204.72 0.14 raymondville reach 1 2612 001 2255 00 0.02 7.14 7.16 0.000285 1.44 2834 88 2238.12 0.14 raymondville reach 1 2612.00\* 2856 00 0.02 7.44 7.45 0.000264 1.46 3509.37 2277.21 0.13 raymondville reach 1 2612.00 7259.00 0.02 8.86 8.88 0.000253 1.77 7220.98 2870.48 0.14 2190 raymondville reach 1 1714.00 -0.05 6.78 6.79 0.000097 0.99 3642 65 2179.62 0.08 raymondville reach 1 2190 2255 00 -0.05 7.07 7.08 0.000113 1.12 4299.49 2443.63 0.09 raymondville reach 1 2190 2856,00 -0.05 7.37 7.38 0.000115 1.17 5037 B1 2479.29 0.09 raymondville reach 1 2190 7259.00 -0.05 B.78 8.79 0.000157 1.61 8747.43 2913.11 0.11 rzymondville reach 1 0 1714.00 -0.41 6.51 2.89 6.52 0.000160 1.16 3264 59 2522 02 0.10 raymondville reach 1 lo 2255 00 -0.41 6.78 3.48 6.79 0.000160 1.21 3950.11 2543.12 0.10 raymondville 0 reach: 1 2856.00 -0.41 7.08 5.55 7.09 0.000160 1.27 4757.25 3325 34 0.10 raymondville lo 7259.00 -0.41 8.43 6.14 8.44 0.000160 1.51 9370.64 3429.49 0.11 North Main reach 4 331370 410.00 96.81 103 97 99.87 104.06 0.000492 2.44 168.35 36.91 0.20 North Main reach 4 331370 573.00 96.81 105.23 100.50 105.34 0.000479 2.63 217.96 41.60 0.20 North Main reach 4 331370 770.00 96.81 106.53 101.12 106.66 0.000463 2.80 275.18 46.43 0.20 North Main reach 4 331370 1392.00 96.81 109.54 102.69 109.70 0.000453 3.23 431.50 57.59 0.21 North Main reach 4 330227 96.76 103.48 410.00 99.35 103.55 0.000399 2.23 183.83 39.69 0.18 North Main reach 4 330227 573.00 96,76 104.76 99.90 104.85 0.000387 2.41 237.54 44.25 0.18 330227 North Main reach 4 770.00 96.76 106.07 100.47 106.18 0.000374 2.58 298.96 48.95 0.18 North Main reach 4 330227 1392.00 96.76 109.08 101.93 109.23 0.000374 3.01 462.46 59.45 0.19 reach 4 330128 North Main 410.00 96.76 103.44 99.28 103.52 0.000413 2.31 177.44 36.28 0.18 North Main reach 4 330128 573.00 96.76 104.71 99.81 104.81 0.000421 2.53 226.49 40.84 0.19 reach 4 North Main 330128 770.00 96.76 106.02 100.40 106.13 0.000423 2.72 283.12 45.91 0.19 North Main reach 4 330128 96.76 1392.00 109.02 101.86 109.18 0.000435 3.17 438.74 57.61 0.20 North Main reach 4 330078 410.00 96.76 103.41 99.26 103.50 0.000419 2.32 36.22 176.65 0.19 North Main reach 4 330078 573.00 96.76 104.69 99.80 104.79 0.000426 2.54 225.58 40.75 0.19 North Main reach 4 330078 96.76 770.00 106.00 100.39 106.11 0.000427 2.73 282.09 45.83 0.19 North Mair reach 4 330078 1392.00 96.76 109.00 101.86 109.16 0.000438 3.18 437.41 57.52 0.20 reach 4 329975 North Main 410.00 97.01 103,29 100.02 103.43 0.000858 3.01 136.16 32.79 0.26 North Main reach 4 329975 573.00 97.01 104.57 100.64 104 73 0.000776 3.16 181.05 37.34 0.25 North Mair reach 4 329975 770.00 97.01 105.88 101.29 106.05 0.000711 3.31 232.97 41.99 0.25 North Main reach 4 329975 97.01 1392.00 108.88 102.88 109.10 0.000648 3.71 375.16 52.67 0.25 North Main reach 4 328000 410.00 95.26 102.35 97.87 102.42 0.000330 2.09 196.40 40.45 0.17 North Main reach 4 328000 573.00 95.26 103.69 98.42 103.76 0.000321 2.26 253.61 45.11 0.17 North Main 328000 reach 4 770.00 95.26 105.04 99.00 105,13 0.000313 2 42 317.95 49.83 0.17

HEC-RAS Plan. P. 50% D. (Continued) Q Total Min Ch El W.S. Elev Cnt W.S. River Sta E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) ·(ft) (ft) (11) (fVft) (ft) (fl/s) (sq fl) (ft) North Main reach 4 328000 1392.00 95.26 108.06 100 47 108 19 0.000329 2.88 60.35 0.18 reach 4 North Main 326000 410.00 94.56 101.63 97.39 101.70 0.000385 2.19 187.63 40.83 0.18 North Main reach 4 573.00 326000 94.56 103.01 97.95 103.09 0.000354 2.31 247.67 46.27 0.18 North Main reach 4 770.00 94.56 104.39 98.54 104.49 0.000332 315.63 2.44 51.75 0.17 North Main each 4 326000 1392.00 94.56 107.40 100.02 107.52 0.000335 2.85 488.77 63.48 0.18 reach 4 324083 101.03 410.00 94.05 96 40 101 D9 0.000267 1,90 216.21 44.36 0.15 North Main reach 4 324083 573.00 94.05 102.46 96.92 102.52 0.000249 2.02 283.23 49.81 0.15 North Mair each 4 770.00 94.05 103 87 97.47 103.95 0.000238 2.15 55.24 357.59 0.15 North Main reach 4 324083 1392.00 94.05 106.85 98.88 106,96 0.000257 2.58 539.10 66.67 0.16 North Main reach 4 324005 410.00 94.05 101.01 96 40 101 07 0.000270 1.90 215.24 44.28 0.15 North Main each 4 324005 573.00 94.05 102.44 96.92 102 50 0.000251 2.03 282.22 49.73 0.15 North Main reach 4 324005 770.00 94.05 103.85 97.47 103 93 0.000240 2.16 356.52 55.16 0.15 each 4 324005 1392.00 94.05 106.83 98,88 106.94 0.000259 2.59 537.70 66.59 0.16 North Main 322000 93.17 reach 4 410.00 100.42 95.84 100 48 0.000317 2.04 200,55 41.49 0.16 North Main reach 4 322000 573.00 93.17 101.89 96.40 101.96 0.000288 2.16 265.68 47.02 0.16 each 4 North Main 770.00 322000 93.17 103.33 96.99 103.41 0.000273 2.28 337.43 52.45 0.16 North Main reach 4 322000 1392.00 93.17 106.29 98.48 106.37 0.000302 2.42 835.48 363.10 0.17 North Main each 4 320965 410.00 93.05 100,00 95.85 100.09 0.000464 2.40 171.18 36.63 0.20 North Main reach 4 320965 573.00 93.05 101.51 96.44 101.61 0.000404 2.48 230.60 41.82 0.19 North Main reach 4 320965 93.05 770.00 102.98 97.06 103.08 0.000373 2.61 295.49 46.85 0.18 North Main reach 4 320985 1392.00 93.05 105.84 98.63 106.00 0.000408 3.13 444.07 56.65 0.20 North Main reach 4 320873 410.00 93.05 99.95 95.85 100.04 0.000476 2.42 169.52 36.47 0.20 North Main reach 4 320873 573.00 93.05 101.47 96.44 101.57 0.000412 2.50 228.96 41.69 0.19 North Main reach 4 320873 770.00 93.05 102.94 97.06 103.05 0.000379 2.62 293.80 46.72 0.18 North Main reach 4 320873 1392.00 93.05 105.81 98.63 105.96 0.000414 3.15 441.82 56.52 0.20 North Main reach 4 320000 410.00 92.95 99.57 95.52 99.65 0.000417 2.25 182.22 40.31 0.19 North Mair reach 4 320000 573.00 92.95 101.16 96.08 101.24 0.000341 2.28 250.98 46.39 0.17 North Main reach 4 320000 770.00 92.95 102.66 96.67 102.74 0.000306 2.37 324.79 52.12 0.17 North Main reach 4 320000 1392.00 92.95 105.50 98.13 105.63 0.000333 2.85 488.63 63 07 0.18 North Main reach 4 410.00 91.12 98.87 93.95 98.94 0.000306 2.05 200.37 39.67 0.16 North Main reach 4 318000 573.00 91.12 100.58 94.56 100.65 0.000259 2.10 273.15 45.76 0.15 North Mair 318000 reach 4 770.00 91.12 102.12 95.19 102.20 0.000244 2.21 348.07 51.27 0.15 North Main reach 4 318000 1392.00 91.12 104.88 96.76 105.00 0.000297 2.77 503.02 61.12 0.17 North Main reach 4 317530 410.00 91.23 98.72 94.19 98.79 0.000330 201.31 43.71 2.04 0.17 North Mein 317530 reach 4 573.00 91.23 100.46 94.78 100.52 0.000256 2.02 283.94 51.52 0.15 North Main reach 4 317530 770.00 91.23 102.02 95.39 102.08 0.000228 2.08 369.59 58.52 0.15 North Main reach 4 317530 1392.00 91.23 104.76 96.87 104.86 0.000261 2.54 547.10 70.81 0.16 North Main reach 4 317452 410.00 91.23 98.70 43.59 94.20 98.76 0.000335 2.05 200.14 0.17 North Main 317452 reach 4 573.00 91.23 100.44 94.78 100.50 0.000259 2.03 282.88 51,43 0.15 North Main reach 4 317452 770.00 91.23 102.00 95.39 102.07 0.000230 2.09 368.52 58.44 0.15 North Main reach 4 317452 1392.00 91.23 104.74 0.000263 96.87 104.84 2.55 545.61 70.72 0.16 North Main reach 4 317000 410.00 90.93 98.54 93.87 98.61 0.000347 2.14 191.70 0.17 39,29 North Main reach 4 317000 573.00 90.93 100.31 94.48 100.38 0.000277 2.15 267.13 45.81 0.16 North Main 770.00 90.93 101.88 95,12 101.98 0.000255 2.24 343.49 51.59 0.15 90.93 North Main reach 4 317000 1392.00 104.59 96.66 104.71 0.000310 2.80 496.84 61.57 0.17 North Main 157900 reach 2 40.00 90.87 92.00 91.41 92.05 1.80 22.17 21.96 0.001841 0.32 North Main reach 2 157900 100.00 90.87 92.66 91.84 92.77 0.002312 2.65 37.72 24.65 0.38 North Mair 157900 reach 2 188.00 90.87 95,40 92.32 95.44 0.000288 1.56 120,45 35.70 0.15 North Main reach 2 157900 515.00 90.87 97.21 93.55 97.32 0.000598 2.69 191.49 42.97 0.22 North Main reach 2 157788 40.00 90.87 91.42 91.34 91.59 0.014955 3.35 11.94 22.67 0.81 North Mair reach 2 157788 100.00 90.87 92.31 91.74 92.45 0.003574 2.99 33.50 25.30 0.46 North Main 157788 95.38 reach 2 188.00 90.87 92.18 95.42 0.000255 1.51 124,60 34.57 0.14 North Main each 2 157788 515.00 90.87 97.15 93.35 97.26 0.000589 2.67 192.67 42.38 0.22 North Main reach 2 157777 Inline Weir North Main reach 2 157707 40.00 88.33 89.90 89.21 89.97 0.002112 2.10 19.01 16.28 0.34 North Main reach 2 157707 100.00 88.33 92.31 89.77 92.34 0.00033 1.43 69.99 26.04 0.15 North Mair 157707 88.33 reach 2 188.00 95.37 90,36 0.000106 1.12 168.34 38.01 0.09 North Main 97.22 reach 2 157707 515.00 88,33 97.14 91.83 0.000300 2.13 241.69 44.87 0.16 North Main reach 2 157442 40.00 67.38 89.67 88.30 0.000559 1.34 29.84 18.32 89.70 0.19 North Mair reach 2 157442 100.00 87.38 92.26 88.88 0.000160 91.02 92.28 1.10 28.83 0.11 North Main 157442 188.00 87.38 reach 2 95.36 89.49 95.37 0.000067 0.94 199.78 41.37 0.08 North Main reach 2 157442 515.00 87.38 97.09 91.01 97.15 0.000209 1.66 277.48 48.25 0.14

HEC-RAS Plan. P 50% D (Continued)

| River          | Reach    | River Sta        | Q Total          | Min Ch El      | W.S. Elev | Crit W.S.      | E.G. Elev      | E.G. Slope    | Vel Chnl | Flow Area        | Top Width | Froude # Chl |
|----------------|----------|------------------|------------------|----------------|-----------|----------------|----------------|---------------|----------|------------------|-----------|--------------|
|                |          |                  | (cfs)            | (ft)           | (ft)      | (ft)           | (ft)           | (fl/ft)       | (fVs)    | (sq ft)          | (ft)      |              |
| North Main     | reach 2  | 157290           | 40.00            | 87.38          | 89.57     | 88.30          | 89.60          | 0.000663      | 1.42     | 28.10            |           | 0.20         |
| North Main     | reach 2  | 157290           | 100.00           | 87.38          | 92.23     | 88.88          | 92.25          | 0.000164      | 1.11     | 90.10            | 28.70     | 0.1          |
| North Main     | reach 2  | 157290           | 188.00           | 87.38          | 95.35     | 89.49          | 95.36          | 0.000068      | 0.94     | 199.22           | 41.32     |              |
| North Main     | reach 2  | 157290           | 515.00           | 87.38          | 97.05     | 91.01          | 97.11          | 0.000213      | 1.87     | 275.49           | 48.09     | 0.14         |
| Marth Marin    |          |                  |                  |                |           |                |                |               |          |                  |           |              |
| North Main     | reach 2  | 158900           | 40.00            | 87.38          | 89.39     | 88.06          | 89.41          | 0.000376      | 1.10     | 36.30            | 22.48     | 0.1          |
| North Main     | reach 2  | 156900           | 100.00           | 87.38          | 92.18     | 88.52          | 92.19          | 0.000091      | 0.88     | 113.32           | 32.70     | 0.0          |
| North Main     | reach 2  | 158900           | 188.00           | 87.38          | 95.33     | 89.03          | 95.34          | 0.000043      | 0.80     | 234.28           | 44.25     | 0.0          |
| North Main     | reach 2  | 156900           | 515.00           | 87.38          | 96.99     | 90.35          | 97.04          | 0.000148      | 1.64     | 313.18           | 50.38     | 0.1          |
| Alamb Barta    |          |                  |                  |                |           |                |                |               |          |                  |           |              |
| North Main     | reach 2  | 155952           | 40.00            | 87.33          | 88.96     | 87.94          | 88.98          | 0.000543      | 1.17     | 34.27            | 26.17     | 0.18         |
| North Main     | reach 2  | 155952           | 100.00           | 87.33          | 92.12     | 88.35          | 92.13          | 0.000058      | 0.70     | 141.99           | 42.08     | 0.0          |
| North Main     | reach 2  | 155952           | 188.00           | 87.33          | 95.30     | 68.80          | 95.31          | 0.000026      | 0.62     | 301.67           | 58.14     | 0.05         |
| North Main     | reach 2  | 155952           | 515.00           | 87.33          | 96.90     | 89.97          | 96.92          | 0.000089      | 1.29     | 400.70           | 66.18     | 0.09         |
| North Mair     |          | AFFOA6           |                  |                |           |                |                |               |          |                  |           |              |
| North Mai:     | reach 2  | 155846           | 40.00            | 87.31          | 88.90     | 87.84          | 88.92          | 0.000569      | 1.24     | 32.31            | 23.03     | 0.18         |
| North Main     | reach 2  | 155848           | 100.00           | 87.31          | 92.11     | 88.28          | 92.12          | 0.000071      | 0.81     | 123.88           | 33.81     | 0.07         |
| North Mara     |          | 155848           | 188.00           | 87.31          | 95.30     | 88.76          | 95.31          | 0.000036      | 0.76     | 246.43           | 43.18     | 0.00         |
|                | reach 2  | 155846           | 515.00           | 87.31          | 96.88     | 90.02          | 96.92          | D.000135      | 1.62     | 318.26           | 47.82     | 0.11         |
| North Main     | reach 2  | 455770           | 40.05            |                |           |                |                |               |          |                  |           |              |
| North Main     | reach 2  | 155779           | 40.00            | 87.31          | 88.88     | 87.70          | 88.89          | 0.000235      | 0.82     | 48.64            | 33.28     | 0.12         |
| North Main     | reach 2  | 155779           | 100.00           | 87.31          | 92.11     | 88.02          | 92.11          | 0.000033      | 0.58     | 171.23           | 42.65     | 0.05         |
| North Main     | reach 2  | 155779           | 188.00           | 87.31          | 95.30     | 88.39          | 95.30          | 0.000019      | 0.59     | 321.20           | 51.45     | 0.04         |
| TOTAL MARI     | reach 2  | 155779           | 515.00           | 87.31          | 96.87     | 89.38          | 96.90          | 0.000073      | 1.27     | 405.83           | 55.80     | 0.08         |
| North Main     | reach 2  | 155696           | 40.00            |                |           |                |                |               |          |                  |           |              |
| North Main     | reach 2  |                  | 40.00            | 87.31          | 88.84     | 87.78          | 88.86          | 0.000445      | 1.09     | 36.60            | 26.02     | 0.16         |
| North Main     | reach 2  | 155696<br>155696 | 100.00           | 87.31          | 92.09     | 88.16          | 92.10          | 0.000056      | 0.74     | 135.98           | 35.24     | 0.07         |
| North Main     | reach 2  | 155696           | 188.00           | 87.31          | 95.28     | 88.60          | 95.29          | 0.000031      | 0.71     | 263.17           | 44.43     | 0.05         |
| w u medi       | 100012   | 100000           | 515.00           | 87.31          | 96.85     | 89.76          | 96.89          | 0.000119      | 1.53     | 336.45           | 48.95     | 0.10         |
| North Main     | reach 2  | 154900           | 40.00            | 96 57          | 88.60     |                |                | 2 2 2 2 2 2 2 |          |                  |           |              |
| North Main     | reach 2  | 154900           | 100.00           | 86.57<br>86.57 | 88.63     | 87.08          | 88.64          | 0.000178      | 0.82     | 48.90            | 26.95     | 0,11         |
| North Main     | reach 2  | 154900           | 188.00           | 86.57          | 92.05     | 87.45          | 92.06          | 0.000036      | 0.63     | 158.79           | 37.28     | 0.05         |
| North Main     | reach 2  | 154900           | 515.00           | 86.57          | 95.26     | 87.90          | 95.26          | 0.000023      | 0.64     | 293,74           | 46.94     | 0.05         |
| TOTOL MINIS    | Jonat 2  | 134500           | 313.001          | 00.37          | 96.78     | 89.08          | 96.81          | 0.000092      | 1.40     | 368.50           | 51.52     | 0.09         |
| North Main     | reach 2  | 153295           | 40.00            | 85.60          | 99.42     | 96 74          | 20.40          |               |          |                  |           |              |
| North Main     | reach 2  | 153295           | 100.00           | 85.60          | 88.42     | 86.21          | 88.42          | 0.000105      | 0.72     | 55,56            | 24.50     | 0.08         |
| North Main     | reach 2  | 153295           |                  |                | 92.00     | 86.68          | 92.00          | 0.000031      | 0.61     | 164.15           | 36.16     | 0.05         |
| North Main     | reach 2  | 153295           | 188.00<br>515.00 | 85.60          | 95.23     | 87.20          | 95.24          | 0.000022      | 0.53     | 298.61           | 47.20     | 0.04         |
| TOTOL HAMIT    | 100012   | 100280           | 513.00           | 85.60          | 96.63     | 88.55          | 96.66          | 0.000093      | 1.40     | 367.98           | 52.05     | 0.09         |
| North Main     | reach 2  | 153200           | 40.00            | 85.60          | 88.40     | 96.24          |                | 0.000100      |          |                  |           |              |
| North Mein     | reach 2  | 153200           | 100.00           | 85.60          | 91.99     | 86.21          | 88.41          | 0.000107      | 0.72     | 55.23            | 24.45     | 0.08         |
| North Main     | reach 2  | 153200           | 188.00           | 85.60          | 95.22     | 86.68          | 91.99          | 0.000031      | 0.61     | 163.74           | 36.13     | 0.05         |
| North Main     | reach 2  | 153200           | 515.00           |                |           | 87.20          | 95.23          | 0.000022      | 0.63     | 298.22           | 47.17     | 0.04         |
| Man Glave Cale | Tumai 2  | 130200           | 313.00           | 85.60          | 96.61     | 88.54          | 96.64          | 0.000094      | 1.40     | 367.00           | 51.98     | 0.09         |
| North Main     | reach 2  | 152900           | 40.00            | 85.22          | 88.38     | 95.00          | 90.20          | 0.000000      |          |                  |           |              |
| North Main     | reach 2  | 152900           | 100.00           | 85.22          | 91.98     | 85.96<br>86.37 | 88.39          | 0.000058      | 0.57     | 70.79            | 28.92     | 0.06         |
| North Main     | reach 2  | 152900           | 188.00           | 85.22          | 95.21     | 86.82          | 91.98<br>95.22 | 0.000020      | 0.51     | 195.31           | 40.41     | 0.04         |
| North Main     | reach 2  | 152900           | 515.00           | 85.22          | 96.59     | 88.03          | 96,61          | 0.000015      | 0.55     | 342.99           | 50.86     | 0.04         |
|                | J. Maria | 1                |                  | - 00.22        | 30.00     | 00.00          | 30.01          | 0.0000071     | 1.24     | 416.08           | 55.31     | 0.08         |
| North Main     | reach 2  | 150900           | 40.00            | 84.97          | 88.30     | 85.46          | 88.30          | 0.000031      | 0.45     | 90.75            | 77.00     |              |
| North Main     | reach 2  | 150900           | 100.00           | 84.97          | 91.95     | 85.85          | 91.96          | 0.000013      | 0.45     | 89.75            | 32.91     | 0.05         |
| North Main     | reach 2  | 150900           | 188.00           | 84.97          | 95.19     | 86.28          | 95.20          | 0.000010      |          | 233.20           | 45.64     | 0.03         |
| North Main     | reach 2  | 150900           | 515.00           | 84.97          | 96.48     | 87.43          | 96.50          | 0.000018      | 1.08     | 399.44<br>475.59 | 56.95     | 0.03         |
|                |          | 450 x 3 m        |                  |                |           |                | 33.55          |               | 1.00     | 475.59           | 61.49     | 0.07         |
| North Main     | reach 2  | 150837           | 40.00            | 84.27          | 88.29     | 85.01          | 88.29          | 0.000016      | 0.34     | 116.49           | 37.80     | 0.03         |
| North Main     | reach 2  | 150637           | 100.00           | 84.27          | 91.95     | 85.36          | 91.95          | 0.000008      | 0.38     | 279.45           | 52.07     | 0.03         |
| North Main     | reach 2  | 150637           | 188.00           | 84.27          | 95.19     | 85.75          | 95.19          | 0.000007      | 0.40     | 470.43           | 65.39     | 0.03         |
| North Main     | reach 2  | 150637           | 515.00           | 84.27          | 96.48     | 86.81          | 96.49          | 0.000046      | 0.92     | 560.11           | 91.92     | 0.03         |
|                | 1        |                  |                  |                |           |                |                |               |          | 300.11           | 51.52     | U.07         |
| North Main     | reach 2  | 150569           | 40.00            | 84.27          | 88.28     | 85.01          | 88.28          | 0.000016      | 0.34     | 116.12           | 37.76     | 0.03         |
| North Main     | reach 2  | 150569           | 100.00           | 84.27          | 91.95     | 85.36          | 91.95          | 0.000008      | 0.36     | 279.25           | 52.06     | 0.03         |
| North Main     | reach 2  | 150569           | 188.00           | 84.27          | 95.19     | 85.75          | 95.19          | 0.000007      | 0.40     | 470.20           | 65.37     | 0.03         |
| North Main     | reach 2  | 150569           | 515,00           | 84.27          | 96.47     | 86.B1          | 96.49          | 0.000046      | 0.92     | 559.82           | 91.81     | 0.07         |
|                | 1        |                  |                  |                |           |                |                |               |          |                  |           | 0.07         |
| North Main     | reach 2  | 148900           | 40.00            | 84.27          | 88.25     | 84.79          | 88.25          | 0.000021      | 0.39     | 101.30           | 32.33     | 0.04         |
| North Main     | reach 2  | 148900           | 100.00           | 84.27          | 91.93     | 85.20          | 91.94          | 0.000011      | 0.41     | 244.19           | 45.30     | 0.03         |
| North Main     | reach 2  | 148900           | 188.00           | 84.27          | 95.18     | 85.67          | 95.18          | 0.000010      | 0.46     | 409.66           | 56.76     | 0.03         |
| North Main     | reach 2  | 148900           | 515.00           | 84.27          | 96.39     | 86.90          | 96.41          | 0.000046      | 1.07     | 481.05           | 61.05     | 0.07         |
|                |          |                  |                  |                |           |                |                |               |          |                  |           |              |
| North Main     | reach 2  | 147966           | 40.00            | 83.76          | 88.22     | 84.95          | 88.23          | 0.000073      | 0.68     | 58.84            | 20.32     | 0.07         |
| North Main     | reach-2  | 147966           | 100.00           | 83.76          | 91.92     | 85.81          | 91.93          | 0.000034      | 0.65     | 154.09           | 31.16     | 0.05         |
| North Main     | reach 2  | 147988           | 188.00           | 83.76          | 95.17     | 86.29          | 95.17          | 0.000027      | 0.69     | 271.07           | 41.28     | 0.05         |
| North Main     | reach 2  | 147986           | 515.00           | 83.76          | 96.30     | 87.99          | 96.34          | 0.000130      | 1.61     | 319.97           | 45.39     | 0.11         |
|                |          |                  |                  |                |           |                |                |               |          |                  |           |              |
| North Main     | reach 2  | 147814           | 40.00            | 83.76          | 88.21     | 84.77          | 88.22          | 0.000044      | 0.55     | 72.89            | 24.54     | 0.06         |
| Vorth Main     | reach 2  | 147814           | 100.00           | 83.76          | 91.91     | 85.35          | 91.92          | 0.000021      | 0.53     | 187.09           | 37.16     | 0.04         |
| North Main     | reach 2  | 147814           | 188.00           | 83.76          | 95.16     | 85.97          | 95.16          | 0.000017      | 0.58     | 325.48           | 48.15     | 0.04         |
| North Main     | reach 2  | 147814           | 515.00           | 83.76          | 96.29     | 87.51          | 96.32          | 0.000083      | 1.35     | 382.20           | 51.98     | 0.09         |

HEC-RAS Plan. P 50% N (Continued)
Peach River Sia Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (f1) (ft) (ft/ft) (ft/s) (sq ft) (ft) North Main reach 2 146900 40.00 83.26 88.19 84.07 88.20 0.000018 0.39 29.93 102.51 0.04 North Main reach 2 146900 100.00 83.26 91.90 84.58 91.90 0.000011 0.42 237.52 42.94 0.03 reach 2 North Main 148900 188.00 83.26 95.15 85.14 95.15 0.000010 0.48 395.38 54.33 0.03 North Main reach 2 146900 515.00 B3.26 B6.55 96,23 96.25 0.000052 1.13 456,35 58.14 0.07 North Main each 2 145333 40.00 83.11 88.18 83.73 88 18 0.000012 0.34 118.95 32.21 0.03 North Main reach 2 145333 100.00 83.11 91.89 84.20 91.89 0.000009 0.38 262.13 45.25 0.03 North Mair each 2 145333 188.00 83.11 95.13 84.73 95 14 0.000008 0.44 429.49 57.85 0.03 North Main reach 2 145333 515.00 83.11 96.16 86.08 96,17 0.000044 1.05 490.52 61.67 0.07 North Main reach 2 145285 40.00 83.11 88.17 83.73 88 18 0.000012 0.34 118.85 32.20 0.03 North Mair reach 2 145285 100,00 83.11 91,89 84.20 91.89 0.000009 0.38 262.03 45.24 0.03 North Main reach 2 188.00 83.11 95.13 84.73 95 14 0.000008 0.44 429.37 57.84 0.03 North Main reach 2 145285 515.00 83.11 96.16 86.08 96.17 0.000030 0.87 1054.06 2238.25 0.05 North Main 144900 reach 2 40.00 83.06 88.17 83.56 88.17 0.000007 0.27 148.89 37.56 0.02 North Main reach 2 144900 100.00 83.06 91.88 83.95 91.89 0.000006 0.32 310.77 49.66 0.02 North Main reach 2 144900 188.00 83.06 95,13 84.39 95.13 0.000006 0.38 568.20 503.93 0.02 North Main reach 2 144900 515.00 83.06 96.15 85.56 96.16 0.000019 0.73 1731.94 2334.51 0.04 North Main 144259 reach 2 482.00 78.00 88.11 80.37 88.13 0.000062 1 34 359.48 49.85 0.09 North Main reach 2 144259 1051.00 78.00 91.79 81.85 91.84 0.000079 1.88 563.65 61.85 0.10 North Main reach 2 144259 1858.00 78.00 94.98 83.44 95.08 0.000097 2.51 780.00 73.71 0.12 North Main reach 2 144259 4804.00 78.00 95.35 87,38 95.92 0.000563 6.15 1413.60 7568.91 0.29 North Main ach 2 144227 Culver North Main reach 2 144198 88.00 482.00 78.00 80,37 88.02 0.000065 1.36 354.03 49 54 0.09 North Main reach 2 144196 78.00 1051.00 91.21 81.85 91.27 0.000096 2.00 528 25 59.68 0.11 North Main reach 2 144196 1858.00 78.00 93.20 83.44 93.33 0.000159 2.91 654.53 67.09 0.15 North Main reach 2 144196 4804.00 78.00 95.37 87.38 95.90 0.000537 6.02 1658.58 7701.31 0.29 North Main mach 2 143766 482.00 80.00 87.91 83.00 87.97 0.000190 1.95 246.76 47.41 0.15 reach 2 North Main 143766 1051.00 80.00 91.10 84.46 91,20 0.000198 2.53 416.88 59.30 0.16 reach 2 North Main 143766 1858.00 80.00 93.03 85.98 93.22 0.000287 3.55 538.08 66.45 0.20 North Main reach 2 143766 4804.00 80.00 95.43 89.71 95.55 0.000255 3.89 8006.19 8954.66 0.20 North Main reach 2 142844 482.00 80.00 87.76 82.81 67.81 0.000165 1 84 261.35 49 47 0.14 North Main reach 2 142844 1051.00 80.00 90.94 84.19 91.03 0.000178 2.41 437.07 61.03 0.15 North Main reach 2 142844 1858.00 80.00 92.79 85.64 92.97 0.000266 3,42 556.29 67.80 0.20 North Main reach 2 142844 4804.00 80.00 95.33 89.27 95.38 0.000122 2.72 11670,98 9169.22 0.14 North Main reach 2 142821 Bridge North Main reach 2 142771 482.00 80.00 87.73 82.51 87.78 0.000163 1.85 260.49 48.45 0.14 North Main reach 2 142771 1051.00 80.00 90.91 83.97 91.00 0.000181 2.43 433.27 60.03 0.16 North Main reach 2 142771 1858.00 80.00 92.75 85.52 92.93 0.000272 3.45 549.61 66.21 0.20 North Main reach 2 142771 4804.00 80.00 95.18 89.25 95,30 0.000237 3.76 8202.92 8923.67 0.19 North Main neach 2 141205 482.00 80.00 87.49 82.36 87.54 0.000147 271.03 1.78 49 44 0.13 North Main reach 2 141205 1051.00 80.00 90.64 83.70 90.73 0.000171 2.38 443.08 59.96 0.15 reach 2 North Main 141205 1858.00 85.15 80.00 92.33 92.52 0.000273 3.43 549.53 65.68 0.20 North Main reach 2 141205 4804.00 80.00 94.96 88.76 95.01 0.000124 2.73 11457.00 8885.67 0.14 North Main reach 2 140152 482.00 80.00 87.31 B2.62 87.37 0.000201 1.95 246.67 50.16 0.16 North Main reach 2 140152 1051.00 80.00 90.44 84.06 90.53 0.000209 425.08 2.47 63.79 0.17 North Main reach 2 140152 1858.00 80.00 92.02 85.54 92.21 0.000327 3.55 530.98 70.58 0.22 North Main reach 2 140152 4804.00 80.00 94.83 89.15 94.88 0.000131 11249.08 2,72 9008.84 0.14 North Main reach 2 140137 Bridge North Main reach 2 140107 482.00 78.00 87.31 80.62 87.34 0.000087 1.46 329.90 54.16 0.10 North Main reach 2 140107 1051.00 78.00 90.44 82.15 90.50 0.000117 2.03 519.23 66.79 0.13 North Main reach 2 140107 1858 00 78.00 91.89 83.72 92.04 0.000209 3.03 620.64 72.70 0.17 North Main reach 2 140107 4804.00 78.00 94.80 94.83 0.000089 2.36 11295.36 6548.52 0.12 North Main reach 2 138870 482.00 78.00 87.21 80.28 87.25 0.000066 1.70 358.83 56.05 0.10 North Main reach 2 138870 1051.00 78.00 90.28 81.68 90.37 0.000109 2.65 548.10 67.43 0.13 North Main reach 2 138870 1858.00 78.00 91.52 83.25 91.75 0.000237 4.17 634.50 72.06 0.20 North Main reach 2 138870 4804.00 78.00 94.70 87.46 94.73 0.000081 2,82 8905.65 13699.41 0.12 North Main reach 2 137387 482 00 78.00 87.11 80.28 87.16 0.000069 1.72 353.27 55.80 0.10 North Main reach 2 137387 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537.50 67.02 0.14 North Main reach 2 137387 1858 00 78.00 91.14 91.39 83.26 0.000265 4.32 608.07 70.84 0.21 North Main reach 2 137387 4804.00 78.00 94.26 87.47 94.51 0.000311 4574.17 5.42 8308,34 0.24 137364 North Main reach 2 482.00 78.00 87.11 80.28 87.15 0.000069 1.73 352.94 55.78 0.10 North Main reach 2 137364 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537.38 67.01 0.14

HEC-RAS Plan. P. 50% D. (Continued) River Reach River Sta O Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Flow Area Froude # Chi (cfs) (ft) (ft/ft) (ft/s) (sq fi) (ft) North Mair reach 2 137384 1858 00 78.00 91.13 83.26 91.39 0.000265 4.33 607,75 70.82 0.21 North Main reach 2 137364 4804.00 78.00 94.26 87.48 94.51 0.000312 5.43 4563.01 8303.33 0.24 137349 North Main reach 2 Bridge North Main reach 2 137334 482.00 78.00 87.09 80.28 87.13 0.000070 55.71 1.73 351.96 0.10 North Main reach 2 137334 1051.00 78.00 90.10 81,69 90.21 0.000115 2.70 537.00 66.99 0.14 North Main reach 2 137334 1858.00 78.00 91.12 83.26 91.37 0.000266 4.33 606.77 70.77 0.21 North Main reach 2 137334 4804.00 78.00 93.72 87.47 94.24 0.000551 7.05 2875.40 7114.87 0.32 North Main reach 2 137249 482.00 78.00 80.54 87.07 87.13 0.000093 1.98 319.56 52.68 0.12 North Main reach 2 137249 1051.00 78.00 90.06 82.09 90.19 0.000151 3.06 495.04 64.52 0.16 North Main reach 2 137249 1858.00 78.00 91.01 83.79 91.33 0.000352 4.93 557.69 67.93 0.24 4804.00 North Main reach 2 137249 78.00 92.13 88.26 93.82 0.001684 11.41 812.51 3625.71 0.54 North Main reach 2 137150 482.00 78.00 87.07 80.41 87.12 0.000081 1.85 333.21 53.71 0.11 North Main reach 2 137150 1051.00 78.00 90.06 81.88 90.17 0.000133 2.88 510.40 64.88 0.15 North Mair reach 2 137150 1858 00 78.00 91.00 83.52 91.29 0.000312 573.00 4.65 68.36 0.23 North Mair reach 2 137150 4804.00 78.00 92.02 87.85 93.63 0.001565 10.97 646.32 2219.61 0.52 North Main 135957 reach 2 482.00 78 00 86 99 80,18 87.03 0.000064 1.64 363.76 57.03 0.10 North Main 135957 reach 2 1051 00 78.00 89.93 81.52 90.02 0.000107 2.58 547.33 67.85 0.13 North Ma reach 2 135957 1858.00 78.00 90.78 83.04 90.96 0.000210 3.79 1404.49 1303.38 0.19 North Main 135957 reach 2 4804.00 78.00 91.89 87.09 92.26 6.43 3675.88 2911.60 0.31 135841 North Main reach 2 482.00 78.00 86.97 80.23 87.02 0.000068 1.70 352.95 55.69 0.10 North Main reach 2 135841 1051.00 78.00 89.90 81 60 90.00 0.000115 2.67 531.58 66.34 0.14 North Main 135841 reach 2 1858.00 78.00 90.71 83.15 90.93 0.000249 4.11 1166,26 1394.76 0.20 North Main reach 2 135841 4804.D0 78.00 91.79 87.27 92.20 0.000604 6.76 3722.67 5968.56 0.32 North Main reach 2 135233 482.00 78.00 86.94 80.32 86.98 0.000066 1.57 343.02 54.99 0.10 North Main reach 2 135233 1051.00 2.46 78.00 89 85 81 73 89 94 0.000108 518.88 68,03 0.13 North Main 135233 reach 2 1858.00 78.00 90.68 83.13 90.78 0.000151 3.06 3640.15 2880.99 0.16 North Main reach 2 135233 4604.00 78.00 91.99 86.98 92.00 0.000054 1.95 17110.72 9184.99 0.09 North Main reach 2 482.00 78.00 86 93 80.04 86.95 0.000046 1.33 402.87 63.61 0.08 North Main reach 2 134690 1051.00 78.00 89.82 81.31 89.88 0.000069 1.99 951.25 598.39 0.11 North Main reach 2 134690 1858.00 78.00 90.66 82.63 90.71 0.000084 8801.00 2.30 4700.11 0.12 134690 North Main each 2 4804.00 78.00 91.97 86 09 91.98 0.000041 1.73 18918.18 9799.69 0.08 North Main 134647 reach 2 Bridge North Mair 134606 482.00 reach 2 78.00 86.88 81.96 86 94 0.000134 2.02 312.27 70.30 0.14 North Main reach 2 134608 1051.00 78.00 89.72 83.30 89 81 0.000141 1865.97 2.60 1308.43 0.15 North Main reach 2 134606 1858.00 78.00 90.62 84 81 90.66 0.000108 5361.39 8767.69 0.13 North Mair each 2 4804.00 78.00 91.98 90.76 91.96 0.000042 1 64 19593.63 9786.96 0.08 North Mair reach 2 134537 482.00 86.89 80.04 78.00 86 92 0.000047 1 34 400.46 63.45 0.08 North Main 134537 reach 2 1051.00 78.00 89.73 81.31 89.79 0.000073 2.03 895 85 574.64 0.11 North Mair 134537 reach 2 1858.00 78.00 90.58 82.63 90.64 0.000095 2.43 4427 87 8738.24 0.12 North Main 134537 reach 2 4804.00 78.00 91.95 86.09 91.96 0.000043 1.76 18672.14 9780 59 0.09 North Mair reach 2 132334 962.00 78.00 86.50 B1.36 86.63 0.000272 2.87 346 60 58 13 0.19 North Main reach 2 132334 1985.00 78.00 89.09 83.16 89.36 0.000387 4.22 676.93 2169.80 0.24 North Mair 132334 3435.00 reach 2 78.00 90.21 84.98 90.30 0.000208 3.34 6543 08 8425 D9 0.18 North Mair each 2 132334 8788.00 78.00 91,79 90.51 91.80 0.000098 2.51 21371.59 9649.58 0.13 North Main reach 2 131688 962.00 78.00 86.33 81.34 86.45 0.000266 2.78 356.85 61.90 0.19 North Main reach 2 131688 1985.00 78,00 89.00 83.09 89,14 0.000239 3.29 1927.03 2840.7B 0.19 131668 North Mair reach 2 3435.00 78.00 84.81 90.16 90.09 0.000191 3.17 5777.46 7576.36 0.17 North Main reach 2 131688 8788.00 78.00 91.71 89.89 91.73 0.000114 2.70 19225.05 8692.08 0.14 North Mair 130701 reach 2 962.00 78.00 86.25 86.28 80.24 0.000095 1063,06 280.21 1.68 0.11 North Main reach 2 130701 1985.00 78.00 88.92 81.50 88.96 0.000099 1502.05 2.13 2228.54 D 12 North Main 3435.00 reach 2 130701 78.00 89.95 82.86 90.00 0.000137 4748.99 2.69 3180.18 0.15 North Mair reach 2 130701 8788.00 78.00 91.59 88.50 91.62 0.000129 17386.30 2.87 8452.56 0.15 North Main reach 2 130048 86.02 962.00 78.00 81.30 86.16 0.000328 3.01 326.89 57.19 0.21 North Main 130046 1985.00 reach 2 78.00 88.65 83.09 88.84 3.77 1652.70 3275.01 0.000327 0.22 North Mair reach 2 130046 3435.00 78.00 89.84 84.68 89.90 0.000167 6590,23 8060.06 2.92 0.16 North Main reach 2 130046 8788.00 78.00 91.54 89.69 91.55 23789.34 9342.46 0.000069 2.08 0.11 North Main reach 2 128081 962.00 78.00 85.36 81.03 85.50 0.000373 3.04 319.51 190.90 0.22 North Ma 128081 1985.00 78.00 reach 2 88.06 82.73 88.22 0.000310 3.56 1717.88 3157.66 0.21 North Main reach 2 128081 3435.00 78.00 89.55 84.47 89.60 6681.92 0.000150 2.75 6730.66 0.15 North Mair reach 2 128081 8788.00 78.00 91.43 89.09 27404.56 0.000047 1.72 9636.93 0.09

North Main

North Main

reach 2

reach 2

128032

128032

962.00

1985.00

78.00

78.00

85.34

88.04

81.04

82.72

85.48

88.20

0.000379

0.000317

3.06

3.59

317.80

1680.66

183.25

3123.65

0.22

| River  | Reach  | River Sta                       | Q Total | Min Ch El | W.S. Elev | Crit W.S.   | E.G. Elev   | E.G. Slope  | Vel Chnl | Flow Area    | Top Width   | Froude # Chil |
|--|--|---------------------------------|---------|-----------|-----------|-------------|-------------|-------------|----------|--------------|-------------|---------------|
|  |  | H # POATS W                     | (cfs)   | (ft)      | (ft)      | (10)        | (ft)        | (mm)        | (ft/s)   | (8Q fi)      | (ff)        |               |
| nth Main 🗀 n                                 | each 2   | 128032                          | 3435.00 | 78.00     | 89.54     | 84.47       | 89.59       | 0.000152    | 2.76     | 6715.33      | 6707.83     | 0.1           |
| th Main 💮 n                                  | each 2   | 128032                          | 8788.00 | 78.00     | 91.42     | 89.09       | 91.43       | 0.000046    | 1.71     | 27437.98     | 9653.25     | 0.0           |
|  |  | \$ \$4.00 p. p.                 |         |           |           |             |             | i           |          |              |             |               |
| th Main 8                                    | each 2   | 126984                          | 962.00  | 76.00     | 85.03     | 79.67       | 85.14       | 0.000270    | 2.72     | 356.32       | 1363.01     | 0.1           |
| th Main n                                    | each 2   | 126984                          | 1985.00 | 76.00     | 87.90     | 81.51       | 87.96       | 0.000137    | 2.47     | 3148.42      | 4076.70     | 0.1           |
| th Main n                                    | each 2   | 126984                          | 3435.00 | 76.00     | 89.44     | 83.42       | 89.47       | 0.000077    | 2.06     | 8314.78      | 6523.50     | 0.1           |
| -  | each 2   | 126984                          | 8788.00 | 76.00     | 91.39     | 88.13       | 91.40       | 0.000028    | 1.38     | 31429.64     | 9053.18     | 0.0           |
|  |  | 9 BH 92819 17                   |         |           |           |             |             |             |          |              |             |               |
| 1211971121                                   | each 2   | 126599                          | 962.00  | 76.00     | 84.92     | 79.66       | 85.04       | 0.000278    | 2.72     | 355.87       | 60.10       | 0.1           |
|  | 31 July 10 July 10 10 10 10 10 10 10 10 10 10 10 10 10 | 126599                          | 1985.00 | 76.00     | 87.65     | 81.48       | 87.87       | 0.000338    | 3.80     | 786.54       | 984.58      | 0.2           |
|  | each 2   | 126599                          | 3435.00 | 76.00     | 89.33     | 83.39       | 89.42       | 0.000183    | 3 14     | 5455.91      | 6402.58     | 0,1           |
|  | each 2   | The second second second second |         | 76.00     | 91.37     | 89.23       | 91.38       |             | 1 95     | 24637.84     | 8887.68     | 0.1           |
| th Main T                                    | each 2   | 126599                          | 8788.00 | 76.00     | 91.37     | 09.23       | 31,30       | 0,00000     |          | 21007107     | 0007.00     |               |
|  | ¥4,12,84   |                                 |         |           |           | 70.00       | 04.70       | 0.000336    | 2.90     | 332.71       | 57.27       | 0.3           |
|  | each 2   | 125588                          | 962.00  | 76.00     |           | 79.66       | 84.72       | -           | 3.94     | 880.71       | 956.27      | 0.            |
| th Main 💮 r                                  | each 2   | 125566                          | 1985.00 | 76.00     |           | 81.48       | 87.49       |             |          | 4472.37      | 4067.18     | 0.            |
| nth Main 📑                                   | reach 2  | 125566                          | 3435.00 | 76.00     |           | 83,38       | 89.21       | 0.000213    | 3.34     |              |             |               |
| rth Main 💢 r                                 | each 2   | 125566                          | 8788.00 | 76.00     | 91.28     | 88.92       | 91.30       | 0.000101    | 2.60     | 19849.31     | 9254.14     | 0.            |
|  |  | ce to an english                |         |           |           |             |             |             |          |              | -           | <del></del>   |
| rth Main                                     | reach 2  | 124578                          | 962.00  | 76.00     | 84.30     | 79.24       | 84.42       | 0.000267    | 2.80     | 352.93       | 60.05       | 0.            |
|  | reach 2  | 124578                          | 1985,00 | 76.00     | 86.84     | 81.00       | 87.11       | 0,000384    | 4.15     | 519.00       | 70.60       | 0.            |
|  | neach 2  | 124578                          | 3435.00 | 76.00     |           | 82.77       | 88.92       | 0.000364    | 4.56     | 2420.12      | 2013.12     | 0.            |
|  | each 2   | 124578                          | 8788.00 | 76.00     |           | 89.11       | 91.12       | 0.000368    | 5.18     | 8974.19      | 5475.50     | 0.            |
|  | oft of Anti-Seal                                       | 43 - 10 30 47 15                |         |           | 1         |             |             |             |          |              |             |               |
| rth Main                                     | each 2   | 124360                          | 962.00  | 76.00     | 84.20     | 79.51       | 84.35       | 0.000348    | 3.12     | 317.37       | 55.93       | 0             |
| -  |  | 124380                          | 1985.00 | 76.00     |           | 81.36       | 87.02       | <del></del> | 4.26     | 801.33       |             | 0             |
|  | reach 2  |                                 |         | 76.00     |           | 83.15       | 88.83       |             | 4.88     | 1956.19      |             |               |
|  | reach 2  | 124360                          | 3435.00 |           |           | 88.79       | 91.03       | -           | 3.89     | 12958.70     | -           |               |
| rth Main                                     | reach 2  | 124360                          | 8788.00 | 76.00     | 90.96     | 00.79       | 51.00       | 0,000210    | 3.03     |              | 3,          | 1             |
| <u>parterir se</u>                           |  |                                 |         |           |           |             |             | 0.000347    | 3,11     | 317.08       | 55.23       | 0             |
|  | reach 2  | 124036                          | 962.00  | 76.00     |           |             | 84.23       |             | 4.34     | 740.10       |             |               |
| rth Main I                                   | reach 2  | 124038                          | 1985.00 | 76.00     |           | <del></del> | 86.87       |             |          |              |             | 0             |
| nth Main                                     | reach 2  | 124036                          | 3435.00 | 76.00     |           |             |             | -           |          | 1807.45      |             |               |
| rth Main                                     | reach 2  | 124036                          | 8788.00 | 76.00     | 90.88     | 88.75       | 90.98       | 0.000230    | 4.06     | 12401,76     | 5635.23     | 0             |
| 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18 | Biskin ki  | · 图像设计图像                        |         |           |           |             | L           |             | ļ        |              | <b>-</b>    | ļ             |
| orth Main                                    | reach 2  | 122198                          | 962.00  | 76.00     | 83.41     | 79.14       | 83,5        |             |          | 311.31       |             |               |
| orth Main                                    | reach 2  | 122198                          | 1985.00 | 76.00     | 86.00     | 80.87       | 86.10       | 0.000324    | 3.60     | 1385,67      | +           |               |
|  | reach 2  | 122198                          | 3435.00 | 76.00     | 88.02     | 82.63       | 88.10       | 0.000191    | 3.18     | 4322,91      |             | <del></del>   |
|  | reach 2  | 122198                          | 8768,00 | 76.00     | 90.51     | 87.29       | 90.5        | 0.000190    | 3.66     | 10975.24     | 5352.72     | 2 0           |
| THE COLUMN                                   | F 8 7.0 TO F 1 5 3                                     | 1 10 19 11 1                    |         |           |           |             |             |             |          |              |             | l             |
| att Majo                                     | ranch 2  | 120752                          | 962.00  | 76.00     | 82.48     | 79.42       | 82.7        | 0.000888    | 4.09     | 235.95       | 50.57       | 0             |
|  | reach 2  |                                 | 1985.00 | 76.00     |           | <del></del> |             |             | 5.58     | 371.26       | 61.15       | 5 0           |
|  | reach 2  | 120752                          |         | 76.00     |           |             |             |             |          | 2491.68      |             |               |
|  | reach 2  | 120752                          | 3435.00 |           |           |             | <del></del> |             |          | 8316.27      |             |               |
| orth Main                                    | reach 2  | 120752                          | 8788.00 | 76.00     | 90,14     | 01.54       | 30,2        | 0.000207    | 1.02     | 55.15        |             |               |
|  |  |                                 | 1       |           | -         | 70.00       | 82.4        | 8 0.000889  | 4,01     | 240.21       | 52,10       | 0             |
|  | reach 2  | 120467                          | 962.00  |           | +         |             |             |             |          | 378.7        |             |               |
| orth Main                                    | reach 2  | 120467                          | 1985.00 | 76.00     |           |             |             |             |          | 1246.5       |             |               |
| orth Main                                    | reach 2  | 120487                          | 3435.00 | 76.00     |           |             |             |             | +        |              |             |               |
| orth Main                                    | reach 2  | 120467                          | 8788.00 | 76.00     | 90.07     | 88.05       | 90.1        | 6 0.000255  | 4.13     | 10009.17     | 7 4259.59   |               |
| 27/17/17/2                                   | 14 1027 est 1  | J. Dirt. A                      |         |           |           | <u> </u>    |             |             |          |              | <del></del> | ·             |
| orth Main                                    | reach 2  | 119740                          | 962.00  | 76.0      | 80.02     | 79.23       | 80.8        | 0.004596    |          | 135.7        |             |               |
|  | reach 2  | 119740                          | 1985.00 | 76.0      | 0 82.9    | 80.98       | 83.7        |             |          | 276,4        |             |               |
|  | reach 2  | 119740                          | 3435.00 | 76.0      | 0 84.42   | 2 82.74     | 85.8        |             |          | 364.6        |             |               |
|  | reach 2  | 119740                          | 8788.00 |           |           | 4 87.5      | 89.9        | 2 0.000249  | 4.03     | 8303.5       | 2 6802.4    | 7 (           |
| Section Section                              | 77.2.4   |                                 | 1       | 1         | 1         |             |             |             |          |              |             |               |
| orth Mala                                    | reach 2  | 110730                          | 962.00  | 72.0      | 0 80.3    | 5 75.1      | 80.4        | 4 0.000190  | 2.35     | 424.0        | 8 75.8      |               |
|  | neach 2  | 119730                          | 1985.00 |           |           |             |             |             |          |              |             | 4 (           |
|  | reach 2  | 119730                          | 3435.00 |           |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 119730                          |         |           |           |             | <del></del> |             |          |              |             |               |
| orth Main                                    | reach 2  | 119730                          | 8788.00 | 72.0      | 89.4      | 02.3        | 93.0        | 5.50057     | 0.30     |              | 1           |               |
|  | a property of the                                      | 771 July 19 19 19 19            | 4       |           |           | 75.1        | 000         | 9 0.00020   | 6 2.40   | 412,8        | 2 75.0      | 6             |
| orth Main                                    | reach 2  |                                 | 962.00  |           |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118784                          | 1985.00 |           |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118784                          | 3435.00 |           |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118784                          | 8788.00 | 72.0      | 0 89.5    | 0 84.2      | 3 89.5      | 55 0.00010  | 3.09     | 10186.0      | 3 5023.5    | 8             |
| Arra Crail                                   | Mayor Fren   | in the latest                   | N.      |           |           |             | +           |             |          | <del> </del> |             |               |
| orth Main                                    | reach 2  | 118761                          | 962.00  | 70.0      |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118761                          | 1985.00 | 70.0      | 0,83,0    |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118761                          | 3435.00 |           | 00 84.8   | 2 77.4      | 8 84.9      |             |          |              |             |               |
| orth Main                                    | reach 2  | 118761                          | 8788.00 |           |           | 8 83.9      | 9 89.       | 55 0.00011  | 5 3.34   | 10701.0      | 2516.5      | 14            |
| erar menti                                   |  | 1,,5,5,                         | 1       |           | T         |             | T           |             |          | L            |             |               |
| noth lenin                                   | mach 2   | 118735                          | Culver  | 1         | T         | 1           |             |             |          | T            |             |               |
| orth Main                                    | reach 2  | 110/30                          | Cuive   | +         |           |             | +           |             |          |              |             |               |
|  | -  | 44000                           |         | 70.0      | 70.0      |             | 79.3        | 31 0.00025  | 1 2.60   | 373.8        | 85 63.9     | 26            |
| orth Main                                    | reach 2  | 118709                          | 962.0   |           |           |             | 82.3        |             |          |              |             |               |
| orth Main                                    | reach 2  | 118709                          | 1985.0  |           |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118709                          | 3435.0  |           |           |             | 84.9        |             |          |              |             |               |
| lorth Main                                   | reach 2  | 118709                          | 8788.0  | 0 70.0    | 00 89.4   | 17          | 89.         | 53 0.00011  | 3.3      | 10662.       | 2513.2      |               |
|  |  |                                 |         |           |           |             |             |             |          |              |             |               |
| orth Main                                    | reach 2  | 118635                          | 962.0   | 0 72.0    | 79.1      | 17          | 79.         |             |          |              |             |               |
| orth Main                                    | reach 2  | 118635                          | 1985.0  |           | 00 82.    | 14          | 82.         | 35 0.00033  |          |              |             |               |
| orth Main                                    |  | 118635                          | 3435.0  |           |           |             | 84.         | 94 0.00024  | 3.7      | 9 2274.      | 60 885.     | 90            |
| wall mail!                                   | reach 2  | 118635                          | 8788.0  |           |           |             | 89.         |             | 3.2      | 2 10886.     | 87 2528.    | 01            |

HEC. PAS Plan. P. 50% D. (Continued) Min Ch Ef W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl Q Total Reach River Sta (cfs) (ft) · (ff) (fi) (ft) (fVft) (fl/s) (\$Q ft) (ft) 0.000304 2.73 354.88 64.78 0.20 118513 962.00 72.00 79.14 79.25 North Main mach 2 374.33 118513 82.31 0.000315 3.65 658.36 0.22 1985.00 72.00 82.11 North Main reach 2 84.73 84.90 0.000241 3.79 2242.88 858.53 0.20 118513 3435.00 72.00 North Main reach 2 10748.40 118513 89.50 0.000113 3.27 2508.69 0.14 72.00 89.44 North Main reach 2 8788.00 70.00 73.75 117690 78.88 79.05 0.000338 3.31 352.06 57.01 0.21 1120.00 North Main mach 2 81,67 75.82 82.05 0.000494 4.95 529.86 70.24 0.27 2355.00 70.00 North Main reach 2 117690 70.00 77.91 84.57 0.000793 7.13 698.29 88.23 0.36 117890 4175.00 83,82 North Main reach 2 117690 10250.00 70.00 89.13 83.24 89.37 0.000324 5.79 7937.50 6047.61 0.24 North Main reach 2 73.66 117193 70.00 78.74 78.91 0.000342 3.31 345,52 53.83 0.22 1120.00 North Main reach 2 2355.00 0.000513 5.00 516.49 0.28 117193 70.00 81.46 75.71 81.84 74.56 North Main reach 2 679.56 87.41 0.37 70.00 83.45 77.76 84.24 0.000847 7.24 117193 4175.00 North Main reach 2 0.001722 12.24 1673.92 499.71 0.55 70.00 86.93 83.27 88.93 117193 10250.00 North Main reach 2 78.52 74.20 78 69 0.000398 3 35 350 00 65 35 0.23 116403 1120.00 70.00 North Main mach 2 76.04 81.52 0.000544 4 91 550.42 93.52 0.29 North Main 116403 2355.00 70.00 81.16 reach 2 North Main reach 2 116403 4175.00 70,00 82.98 77.98 83 71 D DODBAS 7.06 748 10 124 OR 0.38 116403 10250.00 70.00 85.99 82.86 87.83 0.001832 11.94 1827.11 587.67 0.56 North Main rach 2 401.39 71.47 116161 1120.00 70.00 78 47 73 29 78.60 0.000274 2.92 0.19 North Main reach 2 116161 2355.00 70.00 81,10 75.16 81.39 0.000403 4.38 627.01 106.39 0.25 North Main reach 2 116161 4175.00 70.00 82.89 77 13 83 48 0.000681 6.37 850.23 144.87 0.33 North Main reach 2 595.77 116161 10250.00 70.00 85.79 82.12 87.36 0.001506 11.00 1913.22 0.51 Vorth Main each 2 414.19 105.99 3.42 0.23 78.15 74.01 78.32 0.000389 North Main reach 2 115322 1120 00 70.00 647.58 0.24 4.26 1302.69 North Main mach 2 115322 2355 00 70.00 80.81 75.78 81.03 0.000388 2844.12 4.58 941.58 North Main reach 2 115322 4175.00 70.00 82.78 77.95 82.97 0.000348 0.24 5.97 0.27 86.35 0.000420 8200.57 3254.97 North Main mach 2 115322 10250 00 70.00 86.12 **B2.27** 78.15 73.19 78.28 0.000257 2.95 482.12 108.60 0.19 115218 70.00 North Main reach 2 1120,00 74.98 80.99 0.000301 3.91 1290.27 592.82 0.22 70.00 115218 2355.00 80.80 North Main resch 2 2740.58 82.73 77.05 82.93 0.000315 4.50 925.18 0.23 70.00 North Main mach 2 115218 4175.00 82.15 86.30 0.000406 6.01 7887.02 3140.25 0.27 70.00 86.05 North Main each 2 115218 10250.00 3,06 418.77 356.19 0.20 78.10 73.09 78.24 0.000277 115057 1120,00 70.00 North Main mach 2 2.73 2924.14 1306.25 0.15 70.00 80.85 74.83 80,92 0.000145 North Main reach 2 115057 2355,00 70.00 82.81 76.61 82.86 0.000117 2.76 5420.04 2312.42 0.14 115057 4175.00 North Main reach 2 18449.36 80.91 86.21 0.000084 2.76 5055.13 0.12 70.00 115057 10250.00 86.18 North Main reach 2 114848 70.DD 78.08 72.89 78.18 0.000243 2.72 441 19 445.15 0.18 1120,00 North Main reach 2 74.60 80.89 0.000095 2.13 4173.06 2589 37 0.12 114848 70.00 80.85 2355.00 North Main reach 2 82.83 0.000062 1.94 8869 21 4193 40 0.10 4175.00 70.00 82.81 76.48 North Main reach 2 114848 114848 10250.00 70.00 86.18 80.65 88.19 0.000049 2.04 21768.11 8958.52 0.09 North Main reach 2 70.92 2.57 0.17 114615 1120.00 70.00 78.03 72.77 7B 13 0.000217 442.95 reach 2 North Main each 2 114815 2355.00 70.00 80.60 74 43 80.86 0.000122 2.41 3678.31 2681.93 0.14 North Main 70.00 82.79 76.24 82 81 0.000061 194 8926.37 4195.17 0.10 North Main reach 2 114615 4175.00 8714.05 0.09 70.00 56.17 80.98 86.19 0.000046 1.98 22372.04 North Main 114615 10250.00 reach 2 114800 Bridge North Main each 2 2.58 70.60 0.17 78.11 441.25 0.000219 North Main reach 2 114585 1120.00 70.00 78.01 72.77 3610.78 2655.59 0.14 0.000126 2,45 North Main reach 2 114585 2355.00 70.00 80.76 74.43 80.82 1.94 8915.66 4180.20 0.10 82.79 reach 2 114585 4175.00 70.00 82.77 76.24 0.000062 0.000048 22364.0 8675.10 0.09 reach 2 86.17 North Main 114585 10250.00 70.00 86,15 80.98 440.10 70.47 0.17 77.99 78.10 0.000221 2.58 1120.00 72.77 North Main reach 2 114500 70.00 80.81 0.000128 2.46 3620.33 2646.67 0.14 80.75 74.43 North Mair 70.00 mach 2 114500 2355.00 9099.36 4223.50 0.10 82.77 76.24 82.79 0.000061 1.93 4175.00 70.00 North Main reach 2 114500 22744.03 8653.40 0.09 0.000044 1.94 86.14 80.95 70.00 North Mair mach 2 114500 10250.00 72.96 77.83 0.000318 2.98 380.21 63.22 0.21 70.00 77.69 North Main reach 2 113500 1120.00 0.000400 80.58 4,19 1226.25 2274.23 0.24 2355.00 70.00 80.33 74.73 113500 North Main reach 2 76.61 82.72 0.000084 2.23 8513 45 4128 55 0.12 113500 4175.00 70.00 82.69 North Main reach 2 10250.00 70.00 86.11 81.62 86.12 0.000042 1.88 23322.41 9405.80 0.09 113500 North Main reach 2 0.15 90.87 98.19 93.28 98 24 0.000261 1 92 213.14 41.35 315798 410.00 North Main reach 3 (south) 47.55 0.14 90.87 100.03 93.83 100.09 0.000210 1.94 295.09 573.00 315796 North Main reach 3 (south) 0.14 101.62 94 40 101.68 0.000198 2.05 374.81 52.89 770.00 90.87 315796 North Main reach 3 (south) 0.14 299.87 90.87 104.32 95.86 104.40 0.000201 2.33 833.94 1392.00 North Main 315798 reach 3 (south) 0.13 49.43 410.00 90.87 98.11 93.06 98.15 0.000188 1.64 249.95 315434 North Main reach 3 (south) 349.58 57.14 0.12 1.64 315434 573.00 90.87 99 98 93 55 100.02 0.000146 reach 3 (south) North Main 445.82 63.71 0,12 1.73 North Main 770.00 90 87 101.57 94.08 101.62 0.000137 315434 reach 3 (south) 1324.78 0.04 1392.00 90.87 104.36 95.42 104.36 0.000020 0.74 4440.17 315434 North Main reach 3 (south) 45.45 0.19 98.10 0.000414 2.44 233.66 93.48 315287 569.00 90.32 98.01 North Main reach 3 (south)

| River                 | Plan P 50% D<br>Reach  | River Sta           | Q Total | Min Ch El   | W.S. Elev   | Crit W.S.   | E.G. Elev                             | E.G. Slope     | Vel Chril   | Flow Area   | Top Width   | Froude # Chi |
|-----------------------|--|---------------------|---------|-------------|-------------|-------------|---------------------------------------|----------------|-------------|-------------|-------------|--------------|
|                       |  |                     | (cfs)   | (fi)        | (ft)        | (ft)        | (ft)                                  | (ft/ft)        | (ft/s)      | (sq ff)     | (ft)        |              |
| rth Main              | reach 3 (south)  | 315287              | 889.00  | 90.32       | 99.86       | 94.34       | 99.97                                 | 0.000413       | 2.74        | 323.89      | 52.27       | 0.1          |
| th Main               | reach 3 (south)  | 315287              | 1298.00 | 90.32       | 101.41      | 95.26       | 101.57                                | 0.000467       | 3.17        | 409.54      | 58.09       | 0.3          |
| th Main               | reach 3 (south)  | 315287              | 2652.00 | 90.32       | 103.98      | 97.50       | 104.32                                | 0.000802       | 4.63        | 572.89      | 69.01       | 0.3          |
| \$174,694.70          |  |                     |         |             |             |             |                                       |                |             |             |             |              |
| th Main               | reach 3 (south)  | 314000              | 569.00  | 89.95       | 97.40       | 93.03       | 97.51                                 | 0.000507       | 2.67        | 213.51      | 41.89       | 0.3          |
| th Main               | reach 3 (south)  | 314000              | 889.00  | 89.95       | 99.25       | 93.94       | 99.39                                 | 0.000506       | 3.00        | 296.66      | 48.39       | 0.3          |
| th Main               | reach 3 (south)  | 314000              | 1298.00 | 89.95       | 100.70      | 94.90       | 100.89                                | 0.000590       | 3.50        | 370.79      | 53.52       | 0.           |
| th Main               | reach 3 (south)  | 314000              | 2652.00 | 89.95       | 102.55      | 97.28       | 103.03                                | 0.001259       | 5,58        | 475.57      | 60.03       | 0.           |
| rilgi kiantikor in    |  | 3,120,45163         |         |             |             |             |                                       |                |             |             |             |              |
| rth Main              | reach 3 (south)  | 313882              | 569.00  | 89.95       | 97.33       | 93.03       | 97.44                                 | 0.000528       | 2.71        | 210.31      | 41.62       | 0.           |
| rth Main              | reach 3 (south)  | 313862              | 889.00  | 89.95       | 99.17       | 93.94       | 99.31                                 | 0.000523       | 3.03        | 292.98      | 48.12       | 0.           |
| th Main               | reach 3 (south)  | 313862              | 1298.00 | 89.95       | 100.61      | 94.89       | 100.81                                | 0.000611       | 3.55        | 366.06      | 53.21       | 0.           |
| th Main               | reach 3 (south)  | 313862              | 2652,00 | 89.95       | 102.34      | 97.28       | 102.85                                | 0.001350       | 5.72        | 463.40      | 59.31       | 0.           |
|                       |  |                     | 2002.00 | 00.00       | 102.01      |             |                                       | 0.001.000      | 52          |             |             | <del>_</del> |
| rth Main              | reach 3 (south)  | 312000              | 569.00  | 89.03       | 96.49       | 91.86       | 96.58                                 | 0.000400       | 2.43        | 234.30      | 44.40       | 0.           |
| rth Main              | reach 3 (south)  | 312000              | 889.00  | 89.03       | 98.33       | 92.72       | 98.45                                 | 0.000410       | 2.76        | 321.65      | 50.74       | 0.           |
| th Main               | reach 3 (south)  | 312000              | 1298.00 | 89.03       | 100.17      | 93.63       | 100.21                                | 0.000175       | 1.98        | 1974.41     | 1928.17     | 0.           |
| th Main               | reach 3 (south)  | 312000              | 2652.00 | 89.03       | 102.52      | 95.91       | 102.52                                | 0.000031       | 0.93        | 8452.60     | 3258.17     | 0            |
| ui mani               | Industrial (Society  | 512000              | 2002,00 | 05.03       | 102.32      | 33.81       | 102.52                                | 0,000001       | 0.00        | 0.02.00     | 0200.11     |              |
| de Alleia             |  | 244406              | 569.00  | 88.28       | 96.30       | 90.77       | 96.35                                 | 0.000194       | 1.79        | 318.63      | 57.19       | 0.           |
| th Mein<br>th Main    | reach 3 (south)  | 311185<br>311185    | 889.00  | 88.28       | 98.13       | 91.55       | 98.20                                 | 0.000194       | 2.06        | 430.78      | 65.18       | 0.           |
| th Main               | reach 3 (south)  | 311185              | 1298.00 | 88.28       | 99.96       | 92.37       | 100.04                                | 0.000208       | 2.33        | 557.05      | 73.12       | 0            |
| th Main               | A CONTRACTOR OF THE CONTRACTOR | 311185              | 2652.00 | 88.28       | 102.49      | 94.45       | 102.50                                | 0.000220       | 1.14        | 7392.17     | 3587.45     | 0            |
| us million            | reach 3 (south)  | 1011100             | 2002.00 | 00.∠8       | 102.49      | 54.43       | 102.30                                | 0.000043       | 1.14        | 1002.11     | 5501.45     |              |
| ab Maj-               |  | 311119              | 569.00  | 88.28       | 96.29       | 90.77       | 96.34                                 | 0.000195       | 1.79        | 317.87      | 57.14       | 0            |
| rth Main              | reach 3 (south)  |                     |         | 88.28       | 98.12       | 91.55       | 98.19                                 | 0.000193       | 2.07        | 429.84      | 65.12       | 0            |
| rth Main              | reach 3 (south)  | 311119              | 889.00  |             |             |             |                                       | 0.000209       | 2.07        | 555.95      | 73.06       | 0            |
| rth Main              | reach 3 (south)  | 311119              | 1298.00 | 88.28       | 99.95       | 92.37       | 100.03<br>102.50                      | 0.000221       | 1.14        |             |             | 0            |
| rth Main              | reach 3 (south)  | 311119              | 2652.00 | 88.28       | 102.49      | 94,45       | 102.50                                | 0.000043       | 1.14        | /301.00     | 3001.31     | <u> </u>     |
| AL 18.7               | and the state of t | 310000              | 569.00  | 88.03       | 96.04       | 90.56       | 96,10                                 | 0.000235       | 1.99        | 285.74      | 48,91       | 0            |
| rth Main              | reach 3 (south)  |                     |         |             |             |             |                                       | <del></del>    | 2.34        | 379.22      | 54.87       | 0            |
| rth Main              | reach 3 (south)  | 310000              | 889.00  | 88.03       | 97.84       | 91.36       | 97.92                                 |                |             |             |             |              |
| rth Main              | reach 3 (south)  | 310000              | 1298.00 | 88.03       | 99.63       | 92.23       | 99.75                                 |                | 2.69        | 482.97      | 60.69       | 0            |
| rth Main              | reach 3 (south)  | 310000              | 2652.00 | 88.03       | 102.43      | 94.45       | 102.44                                | 0.000065       | 1.33        | 6497.51     | 3211.86     | 0            |
| April (N. 3.4) - (N.) |  | 130020              |         |             |             |             |                                       |                | A n=        | 275.00      |             |              |
| rth Main              | reach 3 (south)  | 308000              | 569.00  | 87,73       | 95.54       | 90.26       | 95.60                                 | +              | 2.07        | 275.22      | 48.06       | 0            |
| rth Main              | reach 3 (south)  | 308000              | 589.00  | 87.73       | 97.27       | 91.07       | 97.37                                 | 0.000294       | 2.44        | <del></del> |             | 0            |
| irth Main             | reach 3 (south)  | 308000              | 1298.00 | 87.73       | 99.01       | 91.93       | 99,13                                 |                | 2.81        | 461.85      | <del></del> | 0            |
| orth Main             | reach 3 (south)  | 308000              | 2652.00 | 87.73       | 102.26      | 94.15       | 102.28                                | 0.000087       | 1.66        | 5631.20     | 3536.34     | 0            |
| 4 1-14                |  |                     |         |             |             |             |                                       | ļ <u> </u>     |             | <u> </u>    | ļ           |              |
| orth Main             | reach 3 (south)  | 307236              | 569.00  |             | 95.26       | 90.64       | 95.35                                 | <del></del>    | 2.45        | +           | 44.90       | 0            |
| orth Main             | reach 3 (south)  | 307236              | 889.00  | 87.73       | 96.96       | 91.54       | 97.09                                 |                | 2.83        | <del></del> | 51.55       | 0            |
| orth Main             | reach 3 (south)  | 307236              | 1298.00 | 87.73       | 98.67       | 92.47       | 98.83                                 |                | 3.18        |             | ·           |              |
| orth Main             | reach 3 (south)  | 307236              | 2652.00 | 87.73       | 102.10      | 94.76       | 102.15                                | 0.000419       | 2.37        | 2671.78     | 2607.12     | 0            |
| 4.400,11,143          |  |                     |         |             |             |             |                                       |                |             | <u> </u>    |             |              |
| orth Main             | reach 3 (south)  | 307138              | 569.00  | 87.73       | 95,21       | 90.64       | 95.31                                 | · <del>·</del> | 2.48        |             | <del></del> | 0            |
| orth Main             | reach 3 (south)  | 307136              | 889.00  | <del></del> | 96.92       | 91,54       | 97.04                                 | <del></del>    | 2.85        |             |             |              |
| orth Main             | reach 3 (south)  | 307136              | 1298.00 | 87.73       | 98.62       | 92.47       | 98.78                                 |                | 3.21        | 404.74      |             |              |
| orth Main             | reach 3 (south)  | 307136              | 2652.00 | 87.73       | 102.05      | 94.76       | 102.11                                | 0.000451       | 2.46        | 2547.95     | 2499.39     | 0            |
| <u> </u>              |  | - la fill a familia |         |             |             |             |                                       | 1              |             |             |             |              |
| orth Main             | reach 3 (south)  | 306000              | 569.00  | 86.38       | 94.67       | 90.06       | 94.78                                 | 0.000502       | 2.65        | 214.49      |             | <del> </del> |
| orth Mein             | reach 3 (south)  | 306000              | 889.00  | 86.38       | 96,33       | 91.07       | 96.4                                  | 7 0.000548     | 3.07        | 289.23      |             | <del></del>  |
| orth Main             | reach 3 (south)  | 306000              | 1298.00 |             | +           | ·           | 98.18                                 |                | 3.46        |             |             | +            |
| orth Main             | reach 3 (south)  | 306000              | 2652.00 | 86,38       | 101.03      | 94.52       | 101.38                                | 0.000835       | 4.74        | 559.56      | 66.51       | 1 0          |
|                       | National Company   | urri vista          |         |             |             |             |                                       |                |             |             |             | ļ            |
| orth Main             | reach 3 (south)  | 304000              | 569.00  |             |             | <del></del> | +                                     |                |             |             |             |              |
| orth Main             | reach 3 (south)  | 304000              | 889.00  | 86.39       | 95.31       |             | <del></del>                           |                |             | <del></del> |             |              |
| orth Main             | reach 3 (south)  | 304000              | 1298.00 | 86.39       | 96.89       | 91.02       | 97.0                                  |                | 3.36        |             |             |              |
| orth Main             | reach 3 (south)  | 304000              | 2652.00 | 86.39       | 99.17       | 93.30       | 99.5                                  | 7 0,000986     | 5.08        | 521.6       | 63.26       | <u> </u>     |
| 1. 196                |  |                     |         |             | <u> </u>    |             | <u> </u>                              |                |             |             |             | 1            |
| orth Main             | reach 3 (south)  | 302338              | 569.00  | 86.39       | 93.04       | 89,14       | 93.1                                  | 2 0.000466     | 2.30        | 239.2       |             |              |
| orth Main             | reach 3 (south)  | 302338              | 889.00  | 86.39       | 94.51       | 89.94       | 94.6                                  | 3 0.000491     | 2.72        |             |             |              |
| orth Main             | reach 3 (south)  | 302338              | 1298.00 | 86,39       | 96.08       | 90.78       | 96.2                                  | 2 0.000484     | 3.00        | 432.2       | 2 71.56     | +            |
| orth Main             | reach 3 (south)  | 302338              | 2652.00 | 86.39       | 99.07       | 92.81       | 99.0                                  | 8 0,000088     | 1.03        | 3 5321.1    | 2125.54     |              |
| 735,55                |  |                     |         |             |             |             |                                       |                |             |             |             | L            |
| orth Main             | reach 3 (south)  | 302274              | 569.00  | 86.39       | 92.97       | 89.45       | 93.0                                  | 9 0.000699     | 2.7         | 1 209.7     | 1 53,34     | 4            |
| orth Mein             | reach 3 (south)  | 302274              | 889.00  | 86.39       | 94.45       | 90.3        | 94,5                                  | 9 0.000664     | 3.0         | 2 293.9     | 4 60.94     | 1            |
| orth Main             | reach 3 (south)  | 302274              | 1298.00 |             |             | <del></del> |                                       |                |             | 8 395.8     | 3 69.63     | 3            |
| rth Main              | reach 3 (south)  | 302274              | 2652.00 |             |             |             |                                       |                | 1.8         | 4 4050.1    | 9 2018.0    | 1            |
|                       |  | 1                   | 1       | 1           | 1           | 1           |                                       |                |             |             |             |              |
| orth Main             | reach 3 (south)  | 301922              | 569.00  | 86,39       | 92.82       | 88.61       | 92.9                                  | 0.00036        | 3 2.2       | 4 253.9     | 2 52.6      | 4            |
| orth Main             | reach 3 (south)  | 301922              | B89.00  | ·           |             | _           |                                       |                |             |             |             |              |
|                       |  | 301922              | 1298.00 |             | -+          |             | <del></del>                           |                | <del></del> |             |             |              |
| orth Main             | reach 3 (south)  | ~ <del>~</del>      | 2652.00 | +           |             |             |                                       |                |             |             |             |              |
| orth Main             | reach 3 (south)  | 301922              | 2002.00 | , 00.3      | , 30.9      | 52.1        | 33,0                                  | 2.00011        | <del></del> | - 0712.2    |             | +            |
|                       | manch & for the  | 201015              | Fen or  | 86.3        | 9 92.8      | 2 88.6      | 92.8                                  | 9 0.00035      | 7 2.2       | 2 256.6     | 7 52.8      | 4            |
| orth Main             | reach 3 (south)  | 301915              | 569.00  |             |             |             |                                       |                |             |             |             |              |
| orth Main             | reach 3 (south)  | 301915              | 889.00  |             |             |             | · · · · · · · · · · · · · · · · · · · |                |             |             |             |              |
| orth Main             | reach 3 (south)  | 301915              | 1298.00 |             | <del></del> |             |                                       |                |             |             |             |              |
| orth Main             | reach 3 (south)  | 301915              | 2652.00 | 3 86.3      | 98.9        | 8 92.1      | 3 99.0                                | 0.00011        | و. ا        | 4/40.0      | - 2555,U    | -1           |

HEC-RAS Plan. P 50% D (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl River Reach River Sta (cfs) (ft) (fVff) (ft/s) (sq ft) (ft) (ft) (ft). (ft) 90.77 North Main reach 3 (south) 1298.0 60.38 83.94 0.000246 0.16 North Main reach 3 (south) 288232 2652.00 80.38 92.71 85.85 92.76 0.000203 2.39 3217.41 2435.99 0.15 569.00 80.38 87.68 82.52 87.73 0.000184 1.72 61.33 North Main 331.50 0.13 reach 3 (south) 426.40 North Main 80.38 89.15 2.08 67.72 reach 3 (south) 288165 889.00 83.21 89.22 0.000223 0.15 North Main 1298.00 90.75 90.84 2.40 540.05 74.66 reach 3 (south) 288165 80.38 83.94 0.000248 0.16 85.85 2421.62 288165 80.38 92.70 2.40 3195.91 North Main reach 3 (south) 2652.00 92.75 0.000205 0.15 North Main 569.00 288000 80.38 87.63 82,62 87.69 0.000237 1.95 52.81 each 3 (south) 291.92 0.15 North Main reach 3 (south) 889.00 80.38 89.09 83.34 89.18 0.000293 2.39 372.39 57.85 0.17 North Main reach 3 (south) 288000 1298.00 80.38 90.67 84.14 2.77 468.24 63.34 90.79 0.000331 0.18 North Main 86.17 0.000149 5083.19 3049.28 reach 3 (south) 288000 2652.00 80,38 92.70 92.71 1.30 0.11 87.30 82.89 389.81 1044.00 80.37 87.19 0.000456 2.68 73.49 0.20 286897 North Main reach 3 (south): North Main 266897 1567.00 83.65 88.71 80.16 reach 3 (south) 80.37 88.56 0.000522 3.17 495.03 0.22 2228.00 80.37 90.00 84.48 90.29 0.000549 3.58 623.09 86.90 0.24 North Main reach 3 (south) 286897 3237.59 North Main reach 3 (south) 286897 4412.00 80.37 92.30 86.61 92.42 0.000458 3.43 2071.95 0.22 North Main reach 3 (south) 286000 1044.00 80.36 86.65 82.98 86.81 0.000659 3.13 333.79 65.67 0.24 North Main reach 3 (south) 286000 1567.00 80.36 87.93 83.74 0.000763 3.72 420.77 70.79 0.27 North Main 286000 2228.00 80.36 89.42 84.58 89.69 0.000797 4.20 530.32 76.49 0.28 reach 3 (south) 4412.00 80.36 91.58 0.000818 4,79 2375.36 2202.79 0.29 reach 3 (south) 288000 North Main 83.43 51.53 North Main reach 3 (south) 284529 1044.00 80.36 83.06 84,33 0.009023 7.6 137.11 0.82 1567.00 North Main reach 3 (south) 284529 80.36 85.29 83.84 85.95 0.003854 6.51 240.78 59.95 0.57 North Main 284529 2228.00 80.36 87.18 84.71 87.77 0.002406 6.14 362.73 68.72 0.47 reach 3 (south) North Main 284529 4412.00 80.36 90.51 90.58 0.000837 2.97 3269.05 2199.42 0.27 reach 3 (south) North Main reach 3 (south) 284517 Inline Wei 1044.00 74.78 83,42 77.76 83,51 0.000307 421.04 64.96 0.17 North Main reach 3 (south) 284500 2.48 1567.00 78.62 0.000331 2.86 71.88 North Main reach 3 (south) 284500 74.78 85.28 85.41 548.62 0.18 284500 0.000353 691.18 78.69 North Main reach 3 (south) 2228.00 74.78 87.17 79.55 67.33 3.22 0.19 0.000429 3622.57 2201.84 0.20 North Main reach 3 (south) 284500 4412.00 74.78 90.50 81.95 90.57 2.58 North Main reach 3 (south) 284287 1044.00 74.78 83.33 77.89 83,44 0.000369 2.68 388 89 60.65 0.19 1567.00 74.78 78.79 3.09 507.39 67.19 0.20 North Main reach 3 (south) 284287 85.18 85.33 0.000396 North Main reach 3 (south) 284287 2228.00 74.78 87.06 79.75 87.25 0.000422 3.48 639.95 73.82 0.21 North Main 284287 4412.00 74.78 90.39 82.22 90.46 0.000594 2.51 3314.31 2077.42 0.22 reach 3 (south) 1044.00 74.78 83.29 77.89 83.40 0.000376 2.70 386.48 60.51 0.19 North Main reach 3 (south) 284201 78.79 0.000403 3.11 504.58 67.04 0.20 North Main 284201 1567.00 74.78 85.14 85.29 reach 3 (south) 636.72 North Main 284201 2228.00 74.78 87.02 79.75 87.21 0.000428 3.50 73.67 0.21 reach 3 (south) 0.002038 4.68 237.58 each 3 (south) 284201 4412.00 74.78 89.99 82.2 90.33 942.80 0.41 North Main 73.32 83.23 77.22 83.33 0.000305 2.44 427.34 66.52 0.17 North Main reach 3 (south) 284000 1044.00 0.000325 North Main 284000 1567.00 73.32 85.09 78.40 85.21 2.82 556.58 73.05 D.18 reach 3 (south) reach 3 (south) 284000 2228.00 73.32 86.96 79.45 87.12 0.000346 3.18 699 89 79.59 0,19 North Main North Main 284000 4412.00 73.32 89.79 81.75 90.13 0.000602 4.70 938.35 89.41 0.26 reach 3 (south 1044.00 82.71 76,35 82.79 0.000235 2.26 462 37 66 88 0.15 North Main reach 3 (south) 282000 73.33 1567.00 73.33 84.50 77.22 84.61 0.000272 2.66 588 16 73.65 0.17 North Main reach 3 (south) 282000 2228.00 73.33 86.33 78 15 86 4R 0.000304 3.05 729.46 80 57 N 18 North Main reach 3 (south) 282000 4412.00 73.33 88.53 80.56 88 89 0.000642 4 82 915.22 88.85 0.26 North Main reach 3 (south) 282000 North Main reach 3 (south) 280327 1044.00 73 32 82 24 76 48 82.34 0.000311 2.49 419.60 65.13 0.17 North Main reach 3 (south) 280327 1567.00 73.32 83.96 77.37 84.09 0.000354 2.91 537.61 72.20 0.19 280327 2228.00 73 32 85 73 78 34 85 90 0.000392 3 32 671 86 79.95 0.20 North Main reach 3 (south 280327 4412.00 73.32 87.82 80.79 87.97 0.000416 3.62 2753.43 1266.06 0.21 North Main reach 3 (south) 65.05 North Main reach 3 (south) 280283 1044 DO 73 32 82 22 76 48 82.32 0.000314 2.50 418.26 0.17 280263 1567.00 73.32 83.94 77.37 84.07 0.000357 2.92 535.90 72.10 0.19 North Main reach 3 (south North Main reach 3 (south) 280283 2228 00 73 32 85.70 78 34 85 88 0.000395 3.33 669.75 79.78 0.20 North Mair reach 3 (south) 280263 4412.00 73.32 87.79 80.78 87.94 0.000427 3.67 2712.52 1265.06 0.21 North Main 280000 1044 00 73 32 82.14 76.38 82.24 0.000307 2.49 418.66 63.76 0.17 reach 3 (south) reach 3 (south) 280000 1567.00 73.32 83 84 77 25 83 97 0.000354 2.94 532.47 70 04 0.19 North Main 280000 2228 00 73.32 85.59 78.21 85.77 0.000395 3.37 661.03 76.52 0.20 North Main reach 3 (south) North Main 280000 4412.00 73.32 87.68 80.64 87.83 0.000410 3.73 2699,48 1203.64 0.21 reach 3 (south) 60.61 North Main reach 3 (south) 278000 1044.00 73.32 81.32 76.63 81.46 0.000504 2.96 352.18 0.22 66.82 North Main each 3 (south) 278000 1567 00 73 32 82 90 77 54 83.09 0.000563 3.46 452.96 0.23 73,87 North Main each 3 (south) 278000 2228.00 73.32 84.56 78.50 84.80 0.000610 3.91 569.41 0.25 1754.65 0.16 North Main each 3 (south) 278000 4412.00 73.32 87.10 80.94 87.16 0.000254 2.81 4149.13 North Main 276000 1044.00 74.04 80.08 76.67 80.25 0.000745 3.27 319.66 64.43 0.26 reach 3 (south) North Main 0.000765 3.74 419.03 69.84 0.27 reach 3 (south) 276000 1567.00 74.04 81 56 77.41 81.78 North Main reach 3 (south) 74.04 0.000768 535.19 75.75 0.28 276000 2228.00 83.16 78.25 83.43 4.16 North Main 5.98 0.41 86.06 737.30 110.50 reach 3 (south) 276000 4412.00 74.04 85 50 80.41 0.001695

HEC-RAS Plans P 50% D (Continued) C Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Reach River Sta Vel Chnl Flow Area Top Width Froude # Ch! (cfs) (ff) (ft) (ft) (ft) (ft/ft) (fi/s) (sq fi) (ft) North Main 275122 1044.00 74.04 78.74 reach 3 (south) 76,94 79.13 0.002514 5.01 208.44 55.66 0.46 North Main 275122 1567.00 reach 3 (south) 74.04 80.36 77.75 80.77 0.001874 5 15 304.29 61,91 0.41 North Main reach 3 (south) 275122 2228.00 74.04 82.03 78.65 82.48 0.001563 5.40 412.25 67.42 0.39 North Main reach 3 (south) 275122 4412.00 74.04 84.01 80.88 84 48 0.001853 R 18 1565.61 1661.38 0.42 North Main 275113 Inline Weir reach 3 (south) 1044.00 North Main 275102 70.28 76.73 reach 3 (south) 73.20 78.83 0.000348 2.58 404 98 64.47 0.18 275102 North Main 1567.00 reach 3 (south) 70.28 80.35 74.06 80.49 0.000401 3.05 513.91 70.20 0.20 275102 2228.00 iorth Ma 70.28 82.02 75.00 reach 3 (south) 82.21 0.000448 3.50 636.53 76,62 0.21 North Mai reach 3 (south) 275102 4412.00 70.28 84.00 77.51 84.31 0.000810 4.75 1896.28 1663.35 0.29 274837 1044.00 70.28 78.74 North Main mach 3 (south) 72.17 78.77 0.000084 1.38 754 60 109.62 0.09 1567.00 North Main 274837 70.28 reach 3 (south) 80.37 72.74 80.42 0.000101 1.67 939.84 117 29 0 10 274837 North Main reach 3 (south) 2228.00 70.28 82.06 73.36 0.000115 82.12 1.95 1143.81 124.41 0.11 274537 4412.00 70.28 84.05 75.03 North Main each 3 (south) 0.000170 2.59 84.14 3608.02 2501.91 0.14 72.91 North Main reach 3 (south) 274000 1044.00 70.28 78.57 78.85 0.000250 2.24 465.38 72 09 0.16 North Main reach 3 (south) 274000 1567.00 70.28 80.16 73.68 80.27 0.000296 2.68 585.04 78.59 0.17 North Main reach 3 (south) 274000 2225.00 70.28 81.81 74.52 81.96 0.000337 3.09 719.95 85,34 0.19 North Main neach 3 (south) 274000 4412.00 70.28 83.78 76.72 83.92 0.000380 3.59 3559.14 3590.33 0.20 North Main reach 3 (south) 272412 1044.00 70.28 78.21 72.67 78.28 0.000220 2.08 503.02 80.48 0.15 North Main reach 3 (south) 272412 1567.00 70.28 79.73 73.39 79.B3 0.000261 2.48 630.69 87.17 0.16 North Main reach 3 (south) 272412 2228.00 70.28 81.32 74,16 81.45 0.000295 2.88 774.77 94.15 0.18 North Mair reach 3 (south) 272412 4412.00 70.28 82.75 76.21 83.11 0.000731 4.83 913.54 100,35 0.28 North Main reach 3 (south) 271000 1306.00 70 27 77 6B 73.02 77.82 0.000460 2.95 442.5E 71,55 0.21 0.000540 North Main reach 3 (south) 271000 1925 00 70.27 79.09 73.80 79.29 3.52 546.79 76.06 0.23 North Main reach 3 (south) 271000 2703.00 70.27 80.58 74.65 80.84 0.000614 4 08 663.14 80.98 0.25 reach 3 (south) North Main 271000 5237 00 70.27 82.48 76.90 82.52 0.000201 2.55 5788.17 2953.93 0.15 North Main mach 3 (south) 269920 1306 00 70 27 76 73 73 60 77.03 0.001290 4 37 299.05 58.43 0.34 North Main reach 3 (south) 269920 1925.00 70.27 77.94 74.51 78 36 0.001498 5 16 372.71 62.99 0.37 North Main reach 3 (south) 269920 2703.00 70.27 79.25 75.50 79.79 0.001652 5.90 458.00 67.82 0.40 North Main reach 3 (south) 269920 5237.00 70.27 82.04 78.02 62.14 0.000740 3.57 3567.52 2733.69 0.26 North Main reach 3 (south) 269788 1306.00 70.27 76.52 73.60 76.84 0.001453 4.55 286.91 57.64 0.36 North Main reach 3 (south) 269788 1925.00 70 27 77 69 74 51 78 14 0.001693 5.39 356.96 62.04 0.40 North Main reach 3 (south) 269788 2703.00 70.27 78.96 75.50 79.55 0.001863 6.18 438.78 66.77 0.42 North Main reach 3 (south) 269788 5237.00 70.27 81.92 78.02 62.03 0.000892 3.69 3288.72 2252.07 0.29 269131 1308.00 73.68 73.37 74.78 North Main reach 3 (south) 70.27 0.009695 8.42 155.13 52 65 0.86 North Main 269131 1925.00 74.97 76.09 0.006856 reach 3 (south) 70.27 74.22 8.51 226.23 57.83 0.76 70.27 76.63 75,13 2703.00 77.68 North Main reach 3 (south) 269131 0.004581 8.25 327.64 64 30 D BA 269131 78.81 0.005855 North Main reach 3 (south) 5237.00 70.27 77.51 80.68 10.98 476.85 72.58 0.76 269121 North Main reach 3 (south) Inline Weir North Main 269108 1308.00 65.34 73.39 68.57 73.57 0.000596 reach 3 (south) 3.38 386,45 60.53 0.24 269108 North Main reach 3 (south) 1925.00 65.34 74.96 69.48 75.20 0.000684 3.96 485.78 66.13 0.26 North Main 269108 2703.00 65.34 76.62 70.48 76.93 reach 3 (south) 0.000755 4.50 600.65 72.53 0.28 5237.00 65.34 78.80 73.11 79.52 0.001468 North Main ech 3 (south) 269108 6.81 769.13 82.03 0.39 68.42 70.76 North Main 268000 1306.00 65.34 72.74 72.90 0.000600 3.23 404.71 reach 3 (south) 0.24 1925.00 65.34 74.23 69.26 74.45 North Main reach 3 (south) 268000 0.000658 3.73 515,42 77.23 0.25 2703.00 75.85 70.19 76.12 reach 3 (south) 268000 65.34 0.000694 4.19 645.50 84.35 0.27 72.53 North Main reach 3 (south) 268000 5237.00 65.34 76.91 0.001856 7.09 738,38 90.28 0.44 266698 North Main reach 3 (south) 1306.00 65 32 71 74 68 31 71 95 0.000905 3.67 355.61 70.23 0.29 North Main reach 3 (south) 268698 1925.00 65 32 73 16 69.13 73 43 0.000944 4 19 459.84 76.70 0.30 North Main reach 3 (south) 266698 2703.00 65.32 74.75 70.01 75.08 0.000933 4.60 587,43 83.93 0.31 North Mair reach 3 (south) 288898 5237.00 65.32 75.87 72.28 76.05 0.000750 4 39 3969.08 3379,30 0.28 North Main reach 3 (south) RRRRR Inline Weir North Main reach 3 (south) 266679 1306.00 61.46 71.73 64.54 71.80 0.000168 2.06 633,19 82 58 0.13 North Main reach 3 (south) 266679 1925 00 61 46 73 15 65.38 73 26 0.000224 2.55 754.34 88.12 0.15 North Main reach 3 (south) 266679 2703.00 61.46 74.74 66.24 74.88 0.000271 3.01 898 93 94 49 0.17 North Main reach 3 (south) 266679 5237.00 61.46 75.86 68.53 76.01 0.000362 3.62 4334.96 3390.99 0.20 1306.00 71.66 62.86 71.70 0.000101 North Main reach 3 (south) 266000 59.80 1.73 756.64 87.45 0.10 1925.00 73.05 63.72 73.12 0.000144 North Main reach 3 (south) 266000 59.80 2.18 881.81 92.83 0.12 59.80 74.72 0.000178 North Main reach 3 (south) 268000 2703.00 74.52 64.63 2.59 1321.63 2117.71 0.14 75.68 75.79 0.000277 North Main reach 3 (south) 266000 5237.00 59.80 66.95 3.34 4505.49 3329.06 0.18 1306.00 265565 59.80 71.58 63.58 71.65 2.05 0.000165 638,51 83,16 North Main reach 3 (south) 0.13

64.54

73.04

0.000227

2.55

756,07

90.02

0.15

1925.00

265565

reach 3 (south)

North Main

59.80

HEC-RAS Plan. P 50% D (Continued) Q Total Reach River Sta Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chl (cfs) (ff) **(ft)** (ft/ft) (fl/s) (sq ft) (ft) North Main 285565 reach 3 (south) 2703.00 59.80 74.55 65.56 74 63 0.000194 2.50 0.15 North Main 285565 reach 3 (south) 5237.00 59.80 75.60 68.12 75.66 0.000215 6313,26 3900.65 0.15 North Main 265509 1306.00 reach 3 (south) 59.80 71.57 63.58 71.64 0.000165 2.05 637.72 83.12 0.13 North Main reach 3 (south) 265509 1925.00 59.80 72.93 64.54 73.03 0.000228 2.55 754.88 89.95 0.16 North Main reach 3 (south) 265509 2703.00 59.80 74.54 65.57 74.62 0.000196 2.52 2411.61 2501.19 0.15 North Main reach 3 (south) 265509 5237.00 59.80 75.59 68.13 75.66 0.000217 6285.53 2.75 3900.41 0.15 North Maid 264000 1306.00 reach 3 (south) 59 75 71 35 63.05 71.4 0.000134 1,94 672.47 79.85 0.12 North Main reach 3 (south) 264000 1925.00 59.75 72.61 63.91 72.71 0.000196 2.48 775.92 84.53 0.14 North Main 264000 reach 3 (south) 2703 00 59 75 74.38 64.86 74.41 0.000093 1.80 4776.49 3350.77 0.10 North Main reach 3 (south) 264000 5237.00 59.75 75.37 67.30 75.39 0.000135 1.83 8421.46 3870.84 0.12 North Main reach 3 (south) 262000 1306.00 59.40 71.07 62.70 71.13 2.00 652.77 77.68 0,12 North Main reach 3 (south) 262000 1925.00 59.40 72.19 63.63 72.29 0.000220 2.60 741.76 81.88 0.15 North Main reach 3 (south) 262000 2703.00 59 40 73.88 64.61 73.99 0.000775 2.71 998.81 280.60 0.25 North Main reach 3 (south) 262000 5237.00 59.40 75.08 67.14 7418.25 0.000154 1.35 3688.42 0.12 North Main 1565.00 reach 3 (south) 280000 59 40 70.74 63.04 70.79 0.000206 1.92 813.96 141.38 0.14 North Main reach 3 (south) 260000 2291.00 59.40 71.70 63.96 71.79 0.000280 2.36 1109.80 636.34 0.17 North Main reach 3 (south) 260000 3206.00 59 40 73.16 64.96 73.23 0.000241 2.26 2115.98 724.22 0.16 North Main reach 3 (south) 260000 6165.00 59.40 74.77 67.44 74.81 0.000216 2.01 6283.72 2307.97 0.15 North Main reach 3 (south) 258000 1565.00 58.66 70.40 62,05 70 47 0.000134 2.00 783.40 90.06 0.12 North Main 258000 reach 3 (south) 2291.00 58.66 71 17 62.90 71.28 0.000226 2.68 853.62 92.95 0.16 North Main reach 3 (south) 258000 3206.00 58.66 72.55 63 83 72 70 0.000279 3.16 1407.27 1143.01 0.18 North Main each 3 (south) 258000 6165.00 58.66 74.24 66.26 74.34 0.000260 3.24 5860.31 3333.94 0.17 North Main 258681 1565.00 58,71 reach 3 (south) 70.20 62.22 70.27 0.000159 2 10 746 56 91.48 0.13 North Main reach 3 (south) 256681 2291.00 58.71 70.83 63 12 70.95 0.000277 2.85 804.33 94.30 0.17 North Main reach 3 (south) 256681 3206.00 58,71 72.15 64.09 72.31 0.000320 3.24 1437.21 944.54 0.19 North Main reach 3 (south) 256681 6165.00 58.71 74.07 66.57 74.08 0.000124 1.40 10036.97 3979.91 0.11 North Main 1565.00 58.27 reach 3 (south) 258121 70.20 60.74 70.22 0.000042 1.20 1307.47 139.20 0.07 North Main 256121 reach 3 (south) 2291.00 58.27 70.81 61.35 70.85 0.000075 1.64 1394.21 141,97 0.09 North Main 256121 58,27 reach 3 (south) 3206.00 72.08 62.02 72.14 0.000184 1 97 1626 03 2491.28 0.14 North Main 6165.00 reach 3 (south) 256121 58.27 74.04 63.78 74.04 0.000042 12616.26 1.04 3691.26 0.07 North Main 255591 1565.00 58.07 reach 3 (south) 70 14 61 69 70 18 0.000133 1.72 1165.27 2925.53 0.12 North Main reach 3 (south) 255591 2291.00 58.07 70.73 62 56 70.79 0.000206 2.19 1455.49 2991.82 0.14 North Main reach 3 (south) 255591 3206.00 58.07 71.97 63.50 72.03 0.000219 2 18 2375 91 3409.82 0.15 North Main reach 3 (south) 255591 6165.00 58.07 74.02 65.91 74.02 0.000020 0.69 17352.46 3508.22 0.05 North Main 1565.00 254845 58.07 70.09 reach 3 (south) 61 47 70 11 0.000060 1 34 2899.84 3937.21 0.08 North Main 254845 reach 3 (south) 2291.00 58.07 70.65 62.33 70.66 0.000113 1.22 4021.30 4057.50 0.10 North Main 254845 58.07 reach 3 (south) 3206.00 71.94 63 25 71 94 0.000058 0.01 6761.47 4243.89 0.07 North Main 254845 each 3 (south) 6165.00 58.07 74.01 65.65 74.01 0.000011 0.49 23296.69 4330.02 0.03 North Main 254765 each 3 (south) 1565.00 58.07 70.09 61.47 70.11 0.000061 1.34 2890.55 3936.80 0.08 North Main 254765 2291.00 58.07 reach 3 (south) 70.64 62.33 70.65 0.000115 1.23 3990.98 4056 68 0.10 North Main 254765 58.07 each 3 (south) 3206.00 71.93 63.25 71.93 0.000059 0.91 6740 58 4243.06 0.07 North Main 254765 58.07 reach 3 (south) 6165.00 74.01 65.65 74.01 0.000011 0.49 23276.31 4329.97 0.03 North Main 254000 1565.00 58.07 69.97 61.54 reach 3 (south) 70.04 0.000149 2.11 743.02 84 92 0.13 North Main reach 3 (south) 254000 2291.00 58.07 70.61 62.46 70.61 0.000020 0.68 8891.81 4119.64 0.04 North Main 254000 3206.00 58.07 reach 3 (south) 71.91 63.44 71.91 0.000013 0.56 13020.31 4246 23 0.04 North Main 254000 reach 3 (south) 6165.00 58.07 73.99 65.99 74.00 0.000013 0.63 19831.49 4274.21 0.04 North Main 69.62 reach 3 (south) 252000 1565.00 58.08 61.85 69.70 0.000187 2.24 698.35 87.41 0.14 North Main reach 3 (south) 252000 2291.00 58.08 70.58 62.80 70.5B 0.000023 5956 10 0.67 8436.64 0.05 North Main reach 3 (south) 252000 3206.00 58.08 71.89 63.81 71.89 0.000014 0.58 12323.81 5964.73 0.04 reach 3 (south) 252000 6165.00 58.08 73.97 66.38 73.97 0.000014 0.68 18505.63 5975.45 0.04 North Main reach 3 (south) 250860 1565,00 57.32 69.42 60.90 1.71 69.46 0.000214 915.27 193.03 0.14 North Main reach 3 (south) 250860 2291.00 57.32 70.54 61.84 70.55 0.000044 0.83 4955.65 5042.94 0.06 North Main 250860 reach 3 (south) 3206.00 57.32 71.87 71.87 62.84 0.000031 0.81 7044.94 4960.88 0.06 North Main each 3 (south) 250860 6165.00 57.32 73.95 65.39 73.95 0.000036 1.01 10199.77 4981 62 0.06 North Main reach 3 (south) 250000 1630.00 57.29 69.31 60.32 69.35 1.63 0.000092 1001.26 119.72 0.10 North Main reach 3 (south) 250000 2428.00 57.29 70.51 61.17 70.51 0.000058 0.95 5173.87 5006.17 0.07 North Main reach 3 (south) 3444.00 250000 57.29 71.85 71.85 62.10 0.000035 5055.88 0.83 7952.69 0.06 North Main 250000 57.29 73,94 reach 3 (south) 6802.00 64.50 73.94 0.000007 0.43 30197.91 5097.51 0.03 North Main reach 3 (south) 248746 1630.00 57.29 69.13 60.88 69.19 0.000165 2.09 778.53 98.91 0.13 61.88 North Main 248746 2428.00 reach 3 (south) 57.29 70.37 70.41 0.000243 1.85 2101.96 3903.02 0.15 North Main 3444.00 57.29 71.77 62.94 reach 3 (south) 71.80 0.000142 1.66 3418.63 3915.08 0.12 North Main 248748 reach 3 (south) 6802.00 57.29 73.93 65.66 73.93 0.000014 0.62 21990.10 3932,74 0.04 North Main reach 3 (south) 248519 1630.00 57.29 69.09 60.88 69.16 0.000158 774.85 94.14 2.10 0.13

HFC-PAS Plan- P 50% D (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Reach River Sta E.G. Slope Vel Chnl Flow Area Top Width Froude # Ch! (cfs) (ft) (ft) (ft) (fl/s) (sq fl) (11) North Main reach 3 (south) 248519 2428.00 57.29 70.31 61.88 70.36 0.00026 1.86 3902.59 2054.60 0.15 North Main reach 3 (south) 248519 3444.00 57.29 71.74 62.94 71.77 0.000145 1.65 3393.20 3914.85 0.12 reach 3 (south) North Main 248519 6802.00 57.29 73.92 65.66 73 92 0.000014 0.61 21958.90 3932.68 0.04 North Main reach 3 (south) 248000 1630.00 57.30 68.99 61.28 69.07 0.000185 2.24 726.14 90.46 0.14 North Main reach 3 (south) 248000 2428.00 57.30 70.28 62 30 70.29 0.000063 1.29 4837.47 3882.15 0.08 North Main reach 3 (south) 248000 3444.00 57.30 71.72 63.33 71.73 0.000039 1.02 7665.78 3964.6D 0.08 North Main reach 3 (south) 248000 6802.00 57.30 73.91 66.06 73.92 0.000014 0.68 22145.70 4016.60 0.04 North Main 247476 1630.00 reach 3 (south) 57.30 68.61 66.70 68 83 0.001791 3.81 427.55 118.64 0.35 North Main reach 3 (south) 247478 2428.00 57.30 70.26 70.26 67.29 0.000067 0.81 4906.70 3902.61 0.07 reach 3 (south) 247478 3444.00 57.30 71.71 67.94 71.71 0.000040 0.76 7624.32 4066.27 0.06 North Main reach 3 (south) 247476 6802.00 57.30 73.91 70.00 73.91 0.000019 0.66 20518.20 4202.29 0.04 North Main reach 3 (south) 247400 1630.00 57.30 68 49 66 Rt 68.70 0.001670 3.63 449.61 129.34 0.34 North Main reach 3 (south) 247400 2428.00 57.30 70.25 67.15 70.26 0.000067 0.82 4892.11 3894.02 0.07 North Main 247400 reach 3 (south) 3444.00 57.30 71.71 67.79 71.71 0.000040 0.77 7601.69 4058.18 0.06 North Main reach 3 (south) 247400 6802.00 57.30 73.90 69.49 73.90 0.000020 0.66 20451.14 4194.33 0.04 North Main reach 3 (south) 246000 1630.00 57.05 67.96 60.62 68.04 0.000203 2.28 714.12 93.48 0.15 North Main reach 3 (south) 246000 2428.00 57.05 70.12 61.61 70.15 0.000097 1.63 2921.51 3499.10 0.10 North Main reach 3 (south) 246000 3444.00 57.05 71.61 62.65 71.63 0.000077 1.52 4278.19 3551.03 0.09 North Mair reach 3 (south) 246000 6802.00 57.05 73.88 65.30 73.88 0.000017 0.81 19718.70 3566.16 0.04 North Main reach 3 (south) 244000 1630.00 57.05 67.28 61.42 67.44 0.000457 3.14 519.56 76,86 0.21 North Mair reach 3 (south) 244000 2428.00 57.05 69.59 62.54 69.77 0.000429 3.42 709.21 87.44 0.21 North Main reach 3 (south) 244000 3444.00 71.39 57.05 63.72 71.43 0.000139 2.11 3521.11 5914.84 0.12 North Mair each 3 (south) 244000 6802.00 57.05 73.85 66,66 73.85 0.000007 0.44 32065.66 6013.20 0.03 North Main 56.61 reach 3 (south) 242500 1630.00 66.58 61.05 66.74 0.000467 3.20 509.73 74.37 0.22 North Main reach 3 (south) 242500 2428.00 56.61 68.94 62.07 69.12 0.000436 3.49 695.95 84.04 0.21 North Main reach 3 (south) 242500 3444.00 56.61 70.82 63,17 71.06 0.000478 3.96 1029.39 3627,18 0.23 North Main reach 3 (south) 242500 6802.00 56.61 73.82 66.03 73.83 0.000046 1.34 14367.30 3758.79 0.07 North Main 241505 reach 3 (south) 1630.00 56.61 66.14 60.37 66,29 0.000436 3.13 520.48 73.99 0.21 North Mair reach 3 (south) 241505 2428.00 56.61 68,52 61.41 68 70 0.000412 3.43 707.91 83.62 0.21 North Main reach 3 (south) 3444.00 56.61 70.34 62.51 70.58 0.000475 3 97 91,00 0.23 North Main reach 3 (south) 241505 6802.00 56.61 73.09 65.41 73.65 0.000891 6.00 1132.96 839.50 0.32 North Mair reach 3 (south) 240950 1630.00 56.61 65.88 60.53 66.04 0.000489 3.19 511.21 78.00 0.22 North Mair reach 3 (south) 2428.00 56.61 68.29 61.55 68.47 0.000433 3.41 712.78 0.21 North Mair reach 3 (south) 240950 3444,00 56.61 70.08 880.59 62.64 70.32 0.000486 3 91 97.74 0.23 North Main reach 3 (south) 240950 6802.00 56.61 72.59 65.42 73.15 0.000932 5.96 1140.99 314.20 0.33 North Mein reach 3 (south) 240919 1630.00 56.61 65.86 60.53 66.02 0.000492 3.20 509 94 77.92 0.22 North Mair reach 3 (south) 240919 2428.00 56.61 68.27 61.55 68,45 0.000435 3.41 711 50 89.42 0.21 reach 3 (south) North Main 240919 3444.00 56,61 70.06 62.64 70.30 0.000489 3.92 879.00 97.67 0.23 North Main reach 3 (south) 240919 6802.00 56.61 72.56 65.42 73.11 0.000941 5.98 1137.19 305.55 0.33 North Main reach 3 (south) 240000 1630.00 55.47 65.59 59.11 65.69 0.000250 2 48 656 18 87.92 0.16 North Main reach 3 (south) 240000 2428.00 55.47 68.02 60.01 68.14 0.000241 2.75 881.97 97.77 0.16 North Main reach 3 (south 240000 3444.00 55.47 60.97 69.77 69.94 0.000290 3.25 1059.12 104.86 0.18 North Main reach 3 (south) 240000 6802.00 55.47 71.94 63.53 72.37 0.000647 5.25 1295.53 113.63 0.27 North Main reach 3 (south) 239550 1630.00 55.23 65.48 58.93 65.57 0.000259 2.52 647.87 R7 55 0.16 reach 3 (south) North Main 239550 2428.00 55.23 67.91 59.85 68.03 0.000248 2.78 874.21 98.22 0.16 reach 3 (south) North Main 239550 3444.00 55.23 69.64 60.88 69.80 0.000300 3.28 1050.15 105.78 0.18 North Main reach 3 (south) 239550 6802.00 55.23 71.61 63.48 72.06 0.000697 5.37 1267.72 114.29 0.28 North Main mach 3 (south) 239488 1630.00 55.23 65.45 58.93 65.55 0.000261 2.52 645.94 87.45 0.16 North Main reach 3 (south) 239468 2428 00 55.23 67.89 59.86 68.01 0.000250 2.78 872.13 98.13 0.16 North Main reach 3 (south) 23946B 3444 00 55.23 69.61 60.88 69.78 0.000303 3.29 1047.41 105.66 0.18 North Main reach: 3 (south) 239468 6802.00 55.23 71.55 53.48 72.00 0.000708 5.40 1260.48 114.02 0.29 North Main reach 3 (south) 238000 1630.00 54.74 65.08 58.50 65.18 0.000249 2.51 650.67 85.39 0.16 North Main reach 3 (south) 238000 2428 00 54.74 67.53 59.41 67.65 0.000242 2.79 871.12 94.61 0.16 3444,00 North Main reach 3 (south) 238000 54.74 69.16 60.40 69.33 0.000304 3.34 1030.38 100.79 0.18 North Mair reach 3 (south) 238000 6802.00 54.74 71.28 62.99 71.36 0.000219 6166.98 3.06 2449.52 0.16 North Main reach 3 (south) 237265 1630 00 54 61 64.91 58.13 65.00 0.000245 2.50 651.13 84.36 0.16 North Main reach 3 (south) 237285 2428 00 54.61 67.36 59.07 67.48 0.000240 2.79 869.70 93.76 0.16 North Main reach 3 (south) 237285 3444 00 54.61 68.93 60.09 59.11 0.000309 3.37 1021.71 99.78 0.19 North Main reach 3 (south) 237265 6802.00 54.61 71.24 62.75 71.25 0.000085 1.52 9922.03 2920.57 0.09 North Main reach 3 (south) 236620 1630.00 54 53 64 75 58.02 64.84 0.000228 2.39 681.06 90.19 0.15 North Main reach 3 (south) 236620 2428.00 54.53 67,21 58.91 67.32 0.000220 2.65 915.79 100.60 0.15 North Main reach 3 (south) 236620 3444 00 54.53 68.75 59.89 68.91 0.000282 3.20 1075.95 107.08 0.18 North Main 71.21 reach 3 (south) 236620 6802.00 54.53 62.45 71.22 0.000050 1.47 10830.56 2196.06 0.08

HEC-RAS Plan. P. 50% D. (Continued) Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chl (cfs) (ft) (f1) (11) (ft/ft) (ft) (ft/s) (sq ft) (ft) North Main reach 3 (south) 236000 1630 00 54 54 64.57 58.03 64.68 0.000272 2.58 84 69 630 72 0.17 North Main reach 3 (south) 236000 2428.00 54 54 67.04 58.97 67.16 0.000260 2.85 852 28 95.13 0.17 North Main reach 3 (south) 236000 3444 DO 54 54 68 53 60,02 0.000338 3.45 998.40 101.43 0 19 North Main reach 3 (south) 236000 6802.00 54.54 71.16 71.19 0.000123 1.88 7711.69 2079.66 0.11 North Main reach 3 (south) 235490 1630 00 54 49 64.38 58.23 64.5 0.000370 2.92 557,41 77.73 0.19 North Main reach 3 (south) 235490 2428 00 54 49 66.85 59.26 67.01 0.000345 3.18 762,82 88.57 0.19 North Main reach 3 (south) 235490 3444.00 54 49 68.28 60.37 68.51 0.000450 3.85 893.46 94.82 0.22 North Main reach 3 (south) 235490 6802.00 54.49 71.01 71.07 63.23 0.000502 2.53 4159.86 1341.23 0.21 North Main reach 3 (south) 235442 1630.00 54.49 64 36 58.23 64.50 0.000372 2.93 555.96 77.65 0.19 North Main reach 3 (south) 235442 2428 00 54 49 66.83 59.26 66.99 0.000347 3.19 761.28 88.49 0.19 North Main reach 3 (south) 235442 3444.00 54.49 68.25 60.37 68 49 0.000453 3.86 891.28 94.72 0.22 North Main reach 3 (south) 235442 5802.00 54.49 70.97 63.23 71.05 0.000496 2.67 4116.19 1335.40 0.21 North Main reach 3 (south) 234280 1630.00 53.37 64.19 56.31 64 25 0.000115 1.83 890.21 105.67 0.11 North Main reach 3 (south) 234280 2428.00 53,37 56.68 57.11 66.75 0.000118 2.08 1165.18 115.74 0.12 North Main reach 3 (south) 234280 3444.00 53.37 68.04 57 96 68 15 0.000165 2.60 1327.04 121.29 0.14 North Main reach 3 (south) 234280 6802.00 53.37 70.39 60.24 70.49 0.000457 2,86 4105.99 2074.92 0.21 North Main 112500 77.61 below diversion 550.00 70.00 71.75 77.64 0.000066 1.36 407.26 67.01 0.09 North Main 112500 below diversion 1180.00 70.00 80.24 72.86 80.31 0.000094 2.04 871.14 1331.96 0.12 North Main below diversion 112500 1975.00 70.00 82.63 73.96 82.64 0.000030 1.34 6519.85 3697.25 0.07 North Main below diversion 112500 4000.00 70.00 85.89 76.11 85.89 0.000007 0.78 2360B.14 9077,23 0.04 North Main below diversion 111500 550.00 70.00 77.57 77.54 71.81 0.000074 1.43 389.25 65.50 0.10 111500 North Main below diversion 1180.00 70.00 80.17 72.96 80.21 0.000083 1.90 1351.85 1480.01 0.11 North Main below diversion 111500 1975.00 70.00 82.60 74.09 B2.61 0.000024 1.20 7795.52 4028.21 0.06 North Main below diversion 111500 4000.00 70.00 85.88 76.26 85.88 0.000007 0.74 26226.59 7762.72 0.03 North Main below diversion 108769 550 00 70.00 77,33 71,88 77.36 0.000078 1.40 397 77 73.58 0.10 North Main balow diversion 108789 1180.00 70.00 79 RR 73.02 79.95 0.000106 2.07 602.60 86.71 0.13 North Main below diversion 108769 1975 00 70.00 R2 43 74.14 82.49 0.000088 2.25 2123.06 1173.00 0.12 North Mair below diversion 108769 4000.00 70.00 85.83 76.22 85.85 0.00002 1.48 16578.35 9892.31 0.07 North Mair 108564 550.00 below diversion 70.00 77 31 71 77 77.34 0.000075 1.40 395.76 69.50 0.10 North Main below diversion 108564 1180.00 70.00 79 84 72.89 79.91 0.000108 2.11 585.42 80.06 0.13 North Main below diversion 108564 1975.00 70.00 **B2 34** 73.99 82.45 0.000127 2.71 824.42 217.89 0.14 North Main below diversion 108564 4000.00 70.00 85 83 76.11 85.84 0.000028 16292.73 9865.38 0.07 North Main 108524 below diversion Bridge North Main below diversion 108484 550.00 70.00 77.28 71.77 77.32 0.000076 1.41 394.09 69.40 0.10 North Main below diversion. 108484 1180.00 70.00 79.83 72.89 79.90 0.000106 2.11 584.28 80.00 0.13 North Main below diversion 1975.00 70.00 82 23 73 99 82 34 0.000131 2.74 801.84 184.32 0.15 North Main 108484 below diversion 4000.00 70.00 85.80 76.11 85.82 0.000029 1.56 16118.23 9818.49 0.07 North Main below diversion 108424 550.00 70.00 77.28 71.7B 77.31 0.000077 1.41 393 53 69 36 0.10 North Main below diversion 108424 70.00 1180.00 79.82 72.89 79.89 0.000109 2.12 583 33 79.95 0.13 North Main below diversion 108424 1975.00 70.00 82.21 73.99 82,33 0.000132 2.74 799.08 179.79 D.15 orth Main low diversion 108424 4000.00 70.00 85.80 76.11 85.81 0.000030 1.56 16109 48 9809 45 0.07 North Main 108200 550.00 70.00 low diversion 77.26 71.75 77.29 0.00007 1.42 391.31 67.95 0.10 108200 North Main below diversion 1180.00 70.00 79.79 72.85 79.86 0.000111 2.14 575.96 77.88 0.13 North Mair below diversion 108200 1975.00 70.00 82.18 73.96 82,30 0.000135 214.59 2.77 786.67 0.15 North Main relow diversion 108200 4000.00 70.00 85.78 76.08 85.80 0.000029 15196.20 9414.98 1.56 0.07 North Main below diversion 107200 550.00 70.00 77.19 71.65 77.21 0.000069 1.34 70.69 0.10 North Mair noissevib woled 107200 1180 00 70.00 79.69 72.70 79.75 0.00010 2.04 80.12 600,58 0.12 North Main 82.16 below diversion 107200 1975.00 70.00 82.05 73.76 0.000124 2.66 805.27 224.09 0.14 North Main below diversion 107200 4000.00 70.00 85.76 75.82 0.000025 85.77 1.44 16171.15 9168.93 0.07 North Main below diversion 105420 649.00 70.00 77.03 71 91 77.07 0.000088 442.50 79.59 0.11 North Main below diversion 105420 1200.00 70.00 79,51 72.74 79.57 0.000091 652.64 1.90 89.94 0.12 North Main 105420 below diversion 1878.00 70.00 81.87 73 56 81 95 0.000095 100.31 2.30 876.45 0.12 North Main low diversion 105420 3703.00 70.00 85.74 75.33 85.74 0.000015 16619.74 9057.84 0.05 North Main 105350 below diversion 649.00 70.00 77.01 72.04 77.06 0.000116 1.80 376 41 68 40 0.13 North Main below diversion 105350 1200.00 70.00 79.47 72.97 79.56 0.000130 2 36 556 54 78.18 0.14 North Main selow diversion 105350 1878.00 70.00 81.80 73.90 81.92 0.000141 2.88 749.09 87.39 0.15 North Main below diversion 105350 3703.00 70.00 85.73 75.80 85.74 0.000020 1.33 16406.51 9181.95 0.06 North Main selow diversion 105335 Bridge North Main selow diversion 105320 649.00 70.00 76.99 72.04 77.04 0.000118 374.56 1.81 68.29 0.13 North Main 105320 elow diversion 1200.00 70.00 79.54 79.46 72.97 0.000131 555.54 2.37 78.13 0.14 North Main below diversion 105320 1878.00 70.00 81.69 73.90 0.000146 81.82 739.86 2.91 86.98 0.15

North Mair

selow diversion

105320

3703.00

70.00

85.71

75.80

85.72

0.00002

1.34

16222.78

9151.06

HEC-RAS, Plant P. 50% D. (Continued) Min Ch El W.S. Elev Q Total Crit W.S. E.G. Elev E.G. Slope Vel Chril River Sta Flow Area Top Width Froude # Chl (cfs) (ft) (ft/ft) (fVs) (sq fl) (ft) (R) 76.98 North Main elow diversion 105235 649.00 70.00 72.04 77.03 0.000119 1.81 68.26 0.13 North Main below diversion 105235 1200.00 70.00 79.45 72.97 79.53 78.09 0.000131 2.37 554.76 0.14 North Main 1878.00 70 00 81.68 73.90 81.81 below diversion 105235 0.000147 2.91 738.88 86.93 0.15 below diversion North Main 105235 3703.00 70.00 85.70 75.80 85.71 0.000022 1.39 15541.18 0.06 9032.97 North Main 104800 649.00 70.00 76.92 71 95 76.97 0.000120 1.82 372.39 68.60 0.13 North Main below diversion 104800 1200.00 70.00 79.38 72.90 79.47 0.000133 2.38 554.53 79.15 0.14 1878.00 70.00 81.61 73.85 81.74 0.000149 2.92 North Main 104800 741.11 88.58 0.16 selow diversion North Main 3703.00 70.00 85.67 75.77 85.69 104800 0.000038 1.82 12398.49 6792.57 0.08 North Main 104148 649.00 70.00 76.85 76.89 0.000107 1.72 394.16 0.12 oelow diversion 72.41 North Main 104148 1200.00 70.00 79.31 79.38 0.000119 2.25 586.25 83.94 0.13 North Main below diversion 104148 1878.00 70.00 81.53 81.64 0.000133 2.76 784.07 94.32 0.15 North Main dow diversi n 104146 3703.00 70.00 85.62 85.66 0.000055 2.20 9176.01 5899.72 0.10 North Mair 104118 649 00 70 NO 76 R4 76.89 0.000108 1.72 72.40 0.12 393.92 North Main below diversion 104116 1200 00 70.00 79.30 79.38 0.000119 2.25 585.94 83.93 0.13 North Mair 104116 1878.00 70.00 81.52 81.64 0.000134 2.77 783.68 94.30 0.15 below diversion North Main 9165.35 below diversion 104118 3703.00 70.00 85,61 85 65 0.000055 2.20 5896.20 0.10 North Main below diversion 103000 649 00 70.00 76 73 78 7R 0.000115 1 75 385 61 71 88 0.12 North Mai below diversion 103008 1200.00 70.00 79.18 79.26 0.000126 2.29 575.27 83.31 0.14 North Main below diversion 103008 1878.00 70.00 81.38 81.50 0.000140 2.81 770.22 93.64 0.15 North Main below diversion 103008 3703.00 70.00 85.55 85.60 0.000059 2.26 8802.58 5774.98 0.10 76.77 102913 70.00 76.72 0.000119 1.78 378 39 North Main below diversion 649.00 70.33 0 13 102913 1200.00 North Main below diversion 70.00 79.17 79.25 0.000130 2.32 562.42 80.35 0.14 North Main below diversion 102913 1878.00 70.00 81.37 81,49 0.000144 2.84 749.16 89.41 0.15 70.00 North Main below diversion 102913 3703.00 85.52 85.59 0.000076 2.57 6366.38 3488.11 0.12 649.00 71.83 76,77 North Main below diversion 102850 70.00 76.72 0.000115 1.75 384.94 71.84 0.12 North Main below diversion 102850 1200.00 70.00 79.16 72.72 79.24 0.000127 573.84 2.29 83.22 0.14 North Main below diversion 102850 1878.00 70.00 81,36 73.63 81.48 0.000141 2.81 768.21 93.54 0.15 below diversion 70.00 85.53 75.49 85.58 8698.13 102850 3703.00 0.000060 2.28 North Mai 5739.60 0.10 North Main below diversion 102835 Bridge 102820 649.00 76.71 76.76 0.000116 1.75 384.56 71.82 0.12 North Main below diversion 70.00 North Main below diversion 102820 1200.00 70.00 79.15 79.23 0.000127 2.29 572.81 83.16 0.14 North Main below diversion 102820 1878.00 81.34 0.000142 0.15 70.00 81.46 2.82 766.79 93,47 3703.00 85.49 85.54 2.33 8443.68 5652.49 North Main below diversion 102820 70.00 0.000063 0.11 North Main 102600 649.00 70.00 76.68 76.73 0.000138 1.90 352.61 65.14 0.14 below diversion 102600 North Main 1200.00 79.10 79.19 0.000151 2.49 520.89 0.15 70.00 73.75 below diversion 690.06 North Main 1878.00 70.00 81.28 0.000169 3.06 0.16 102600 81.42 81.38 below diversion North Main 70.00 85.37 3.32 4440,27 3861.36 0.15 102600 3703.00 85.49 0.000129 below diversion 101500 649.00 70.00 76.52 76.58 0.000141 1.89 353.86 67.52 0.14 North Main below diversion North Main 1200.00 70.00 78.93 79.03 2.46 528.37 0.15 below diversion 101500 0.000152 77.29 North Main below diversion 101500 1878.00 70.00 81,10 81.24 0.000168 3.02 705,10 86.05 0.16 101500 3703.00 70.00 85.07 85.30 0.000198 4.06 2059.32 2412.44 0.19 below diversion North Main North Main below diversion 100000 649.00 70.00 76.27 76.33 0.000201 1.98 327.94 67.86 0.16 North Main 1200.00 70.00 2.44 below diversion 100000 78,69 78.78 0.000179 503.63 77.11 0,16 2.93 0.17 below diversion 100000 1878.00 70.00 80.84 80.97 0.000183 677.65 84.72 North Main North Main below diversion 100000 3703.00 70.00 84.76 84.99 0.000212 3,98 1155.77 219.07 0.19 649.00 70.00 76.24 76.30 0.000186 1.93 336.59 68.27 0.15 North Mair below diversion 99900 below diversion 1200.00 70.00 78.76 0.000169 2 39 513,48 77.67 0.15 North Main 99900 78.67 North Mair below diversion 99900 1878.00 70.00 80.82 80.95 0.000175 2 88 689.06 85.58 0.16 North Mair below diversion 99900 3703.00 70.00 84.73 84 98 0.000205 3.92 1158.43 192.56 0.19 North Mair 99708 649 00 70.00 76 21 76 27 0.000204 1.95 332 54 71 37 0.16 North Main below diversion 99708 1200.00 70.00 78 63 78.72 0.000173 2.38 519.07 82.26 0.16 North Mair 99708 1878 00 70.00 80.78 80.90 0.000174 2 83 705 24 91 23 0.16 edour die North Main below diversion 99708 3703.00 70.00 84.70 84.92 0.000197 3.82 1161.15 149.79 0,19 North Main below diversion 99592 649 00 70 00 76 17 75.24 0.000233 2.12 306.19 63.31 0.17 North Mair below diversion 99592 1200.00 70.00 78.59 78.70 0.000207 2,61 469.67 71.83 0.17 North Main below diversion 99592 1878 00 70.00 80.73 80.88 0.000213 3.14 631.05 79.21 0.18 North Mair below diversion 99592 3703.00 70.00 84.62 84.89 0.000246 4.25 1054.00 136.66 0.21 1.91 340.09 0.15 North Mair below diversion 99550 649.00 70.00 76.17 71.89 76.23 0.000183 68.09 North Main below diversion 99550 1200.00 70.00 78.59 72.79 78.68 0.000188 2.32 516.92 77.96 0.16 0.17 North Mak below diversion 99550 1878 00 70.00 8D 75 73.70 80.86 0.000200 2.70 694.50 86.87 1173,10 0.19 North Main below diversion 99550 3703.00 70.00 84.68 75.63 84.86 0.000222 3.42 230.72 North Main below diversion 99535 Bridge

| River                                     | Plan• P 50% f<br>Reach                  | River Sta      | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S. | E.G. Elev      | E.G. Slope | Vei Chni     | Flow Area        | Top Width       | Froude # Chi |
|---|---|----------------|--------------------|----------------|----------------|-----------|----------------|------------|--------------|------------------|-----------------|--------------|
| Mark 6631                                 |   |                | (cfs)              | (ft)           | (ft)           | (ft)      | (ft)           | (fl/ft)    | (ft/s)       | (sq ft)          | (ft)            |              |
| North Main<br>North Main                  | below diversion                         | 99520          | 649.00             |                | 76.16          | 71.89     | 76.21          | 0.000185   | 1.91         | 339.16           | 68.04           | 0.15         |
| North Main                                | below diversion below diversion         | 99520<br>99520 | 1200.00            |                | 78.58          | 72.79     | 78,66          | 0.000189   | 2,33         | 515.64           | 77.89           | D.16         |
| North Main                                | below diversion                         | 99520          | 1878.00<br>3703.00 |                | 80.73<br>84.65 | 73.70     | 80.84          | 0.000202   | 2.71         | 692.68           | 86.78           | 0.17         |
|   |   | 3300 A         | 3700.00            | 70.00          | 54.05          | 75.63     | 84.83          | 0.000224   | 3.44         | 1167.67          | 228.85          | 0.15         |
| North Main                                | below diversion                         | 99507          | 649.00             | 70.00          | 76.15          |           | 76.21          | 0.000185   | 1.91         | 338.99           | 68.03           |              |
| North Main                                | below diversion                         | 99507          | 1200.00            | 70.00          | 78.57          |           | 78.66          | 0.000190   | 2.33         | 515.44           | 77,88           | 0.15         |
| North Main                                | below diversion                         | 99507          | 1878.00            |                | 80.72          |           | 80.84          | 0.000202   | 2.71         | 692.44           | 86.77           | 0.10         |
| North Main                                | below diversion                         | 99507          | 3703.00            | 70.00          | 84.65          |           | 84.82          | 0.000222   | 3.42         | 1224.48          | 228.66          | 0.19         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 98900          | 665.00             | 70.00          | 76.03          |           | 76.09          | 0.000223   | 2.02         | 329.47           | 70.79           | 0.16         |
| North Main                                | below diversion                         | 98900          | 1249.00            |                | 78.45          |           | 78.54          | 0.000194   | 2.49         | 510.58           | 78.86           | 0.16         |
| North Main                                | below diversion                         | 98900          | 1979.00            | 70.00          | 80.58          |           | 80.72          | 0.000201   | 3.01         | 691.32           | 95.89           | 0.17         |
| North Main                                | below diversion                         | 98900          | 3903.00            | 70.00          | 84.42          |           | 84.68          | 0.000234   | 4.11         | 1125.32          | 206,56          | 0.20         |
| At Late As A                              | 2 2 2 3 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 | 4742 (3744)    |                    |                |                |           |                |            |              | <u> </u>         |                 |              |
| North Main                                | below diversion                         | 97900          | 665.00             | 70.00          | 75.80          |           | 75,86          | 0.000236   | 2.05         | 324.07           | 70.86           | 0.17         |
| North Main<br>North Main                  | below diversion.  below diversion       | 97900          | 1249.00            |                | 78.25          |           | 78.35          | 0.000198   | 2.49         | 510.74           | 80.94           | 0.17         |
| North Main                                | below diversion                         | 97900          | 1979.00<br>3903.00 | 70.00<br>70.00 | 80.38          |           | 80.52          | 0.000202   | 3.00         | 694.34           | 97.85           | 0.18         |
| ( voi d) indiii                           | DOION GIGING                            | 37300          | 3503.00            | 70.00          | 84.20          |           | 84.44          | 0.000231   | 4.06         | 1145.58          | 233.21          | 0.20         |
| North Main                                | below diversion                         | 95000          | 665.00             | 68.00          | 75.36          |           | 75.40          | 0.000107   | 1 60         | 200.22           | 00.04           |              |
| North Main                                | below diversion                         | 95000          | 1249.00            | 68.00          | 77.81          |           | 77.89          | 0.000107   | 1.68<br>2.25 | 399.22<br>581.45 | 69.34<br>79.41  | 0.12         |
| North Main                                | below diversion                         | 95000          | 1979.00            | 68.00          | 79.88          |           | 80.00          | 0.000123   | 2.25         | 754.63           | 79.41<br>87.94  | 0.13<br>0.15 |
| North Main                                | below diversion                         | 95000          | 3903.00            | 68.00          | 83.57          |           | 83.81          | 0.000197   | 4.00         | 1287.01          | 187.90          | 0.19         |
| 200 S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |   |                |                    |                |                |           |                |            |              | .207.01          | 101.80          | 0,13         |
| North Main                                | below diversion                         | 94730          | 665.00             | 68.00          | 75.33          |           | 75.38          | 0.000116   | 1.74         | 384.45           | 67.13           | 0.12         |
| North Main                                | below diversion                         | 94730          | 1249.00            | 68.00          | 77.78          |           | 77.86          | 0.000133   | 2.33         | 560.50           | 76.91           | 0.14         |
| North Main                                | below diversion                         | 94730          | 1979.00            | 68.00          | 79.83          |           | 79.96          | 0.000161   | 2.95         | 726.28           | 84.92           | 0.16         |
| North Main                                | below diversion                         | 94730          | 3903.00            | 68,00          | 83.48          |           | 83.75          | 0.000225   | 4.25         | 1061.58          | 98.66           | 0.20         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 94655          | 665.00             | 68.00          | 75.32          | 69.93     | 75.37          | 0.000102   | 1.65         | 406,37           | 69.56           | 0.12         |
| North Main                                | below diversion                         | 94655          | 1249.00            | 68.00          | 77,77          | 70.89     | 77.84          | 0.000118   | 2.21         | 587.88           | 79.00           | 0.13         |
| North Main                                | below diversion                         | 94655          | 1979,00            | 68.00          | 79.81          | 71.87     | 79.94          | 0.000144   | 2.81         | 766.76           | 94.21           | 0.15         |
| North Main                                | below diversion                         | 94655          | 3903.00            | 68.00          | 83.49          | 73.89     | 83.73          | 0.000196   | 3.98         | 1256.63          | 224.22          | 0.18         |
| North Main                                | below diversion                         | 94635          | Calden             |                |                |           |                |            |              |                  |                 |              |
| TWOID I MADIN                             | DOION CLASISION                         | 37000          | Bridge             |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 94620          | 665,00             | 68.00          | 75.30          |           | 75.34          | 0.000103   | 4.00         | 404.00           | 20.47           |              |
| North Main                                | below diversion                         | 94620          | 1249.00            | 68.00          | 77.74          |           | 77.81          | 0.000103   | 1.66         | 404.69<br>585.68 | 69.47           | 0.12         |
| North Main                                | below diversion                         | 94620          | 1979.00            | 68.00          | 79.78          |           | 79.91          | 0.000120   | 2.82         | 763.92           | 78,89<br>94,01  | 0,13<br>0.15 |
| North Main                                | below diversion                         | 94620          | 3903.00            | 68.00          | 83.44          |           | 83.67          | 0.000198   | 4.00         | 1245.23          | 218.49          | 0.15         |
|   |   |                |                    |                |                |           |                | 5.000.00   | 7.00         | 1245.25          | 210.40          | 0.19         |
| North Main                                | below diversion                         | 94530          | 665,00             | 68,00          | 75.29          |           | 75.33          | 0.000104   | 1.66         | 404.13           | 69.44           | 0.12         |
| North Main                                | below diversion                         | 94530          | 1249.00            | 68.00          | 77.73          |           | 77.81          | 0.000120   | 2.22         | 584.92           | 78.86           | 0.13         |
| North Main                                | below diversion                         | 94530          | 1979.00            | 68.00          | 79.77          |           | 79.89          | 0.000146   | 2.82         | 762.83           | 93.94           | 0.15         |
| North Main                                | below diversion                         | 94530          | 3903,00            | 68.00          | 83.42          |           | 83.66          | 0.000199   | 4.01         | 1241.72          | 216,69          | 0.19         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 92150          | 665.00             | 68.00          | 74.98          | 70.15     | 75.04          | 0.000171   | 1.93         | 345.34           | 64.38           | 0.15         |
| North Main                                | below diversion                         | 92150          | 1249,00            | 68.00          | 77.38          | 71,20     | 77.48          | 0.000183   | 2.46         | 512.18           | 74.58           | 0.16         |
| North Main                                | below diversion                         | 92150          | 1979.00            | 68.00          | 79.37          | 72.25     | 79.51          | 0.000205   | 3.05         | 680.07           | 95.22           | 0.18         |
| North Main                                | below diversion                         | 92150          | 3903.00            | 68.00          | 82.88          | 74.39     | B3.15          | 0.000260   | 4.25         | 1095.16          | 139.78          | 0.21         |
| North Main                                | below diversion                         | 92135          | Dridge             |                |                |           |                |            |              |                  |                 |              |
| TO III (HOLI)                             | Delow Grei Broi                         | 82.133         | Bridge             |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 92120          | 665,00             | 68.00          | 74.97          | 70.15     | 75.03          | 0.000172   | 1.93         | 344.74           | 64.34           | 0.15         |
| North Main                                | below diversion                         | 92120          | 1249,00            | 68.00          | 77.37          | 71.20     | 77.46          | 0.000172   | 2.46         | 510.79           | 74.50           | 0.15         |
| North Main                                | below diversion                         | 92120          | 1979.00            | 68.00          | 79.34          | 72.25     | 79.49          | 0.000207   | 3.06         | 677.91           | 95.00           | 0.18         |
| North Main                                | below diversion                         | 92120          | 3903.00            | 68.00          | 82.84          | 74.39     | 83.12          | 0.000263   | 4.26         | 1090.08          | 139,46          | 0.21         |
| Fig. Sapar (Fac.)                         | 1.1-26.8-19.6-27                        | 145 Tay 12 Tay |                    |                |                |           |                |            |              |                  |                 | 21           |
| North Main                                | below diversion                         | 91139          | 665.00             | 68.00          | 74.79          | 70.15     | 74.86          | 0.000190   | 2.00         | 333.24           | 63.57           | 0.15         |
| North Main                                | below diversion                         | 91139          | 1249.00            | 68.00          | 77.17          | 71.20     | 77.27          | 0.000201   | 2.53         | 496.52           | 73.69           | 0.17         |
| North Main                                | below diversion                         | 91139          | 1979.00            | 68.00          | 79.13          | 72.25     | 79.28          | 0.000224   | 3.14         | 657.45           | 92.91           | 0.18         |
| North Main                                | below diversion                         | 91139          | 3903.00            | 68.00          | 82.56          | 74.39     | 82.85          | 0.000285   | 4.37         | 1050.78          | 136,91          | 0.22         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 91050          | 665.00             | 68.00          | 74.78          | 70.14     | 74.84          | 0.000191   | 2.00         | 332.06           | 63.30           | 0.15         |
| North Main                                | below diversion                         | 91050          | 1249.00            | 68.00          | 77.15          | 71.19     | 77.25          | 0.000203   | 2.54         | 494.55           | 73.35           | 0.17         |
| North Main                                | below diversion                         | 91050          | 1979.00            | 68.00          | 79.10          | 72.25     | 79,26          | 0.000227   | 3.15         | 653.03           | 90,44           | 0.18         |
| North Main                                | below diversion                         | 91050          | 3903.00            | 68.00          | B2.53          | 74.39     | 82.82          | 0.000290   | 4.40         | 1040.49          | 138.68          | 0.22         |
| North Main                                | below diversion                         | 88641          | 665,00             | 68.00          | 74.28          | 70.04     | 74.25          | 0.000222   | 2.00         | 240 00           |                 | 0.40         |
| North Main                                | below diversion                         | 88641          | 1249,00            | 68.00          | 76.63          | 70.04     | 74.35<br>76.74 | 0.000222   | 2.09         | 318.29           | 63.89           | 0.16         |
| North Main                                | below diversion                         | 88641          | 1979.00            | 68.00          | 78.53          | 71.05     | 76.74<br>78.69 | 0.000233   | 2.61<br>3.22 | 480.09<br>627.66 | 73.82           | 0.18         |
| North Main                                | below diversion                         | 88841          | 3903.00            | 68.00          | 81.88          | 74.15     | 82.13          | 0.000233   | 4.18         | 1607.15          | 81.97<br>624.18 | 0,19<br>0.21 |
|   |   | 2-2.6          | - 0203.00          | 30.00          | 51.00          | 74.13     | VZ.13          | 0.000219   | 9.16         | 1007.15          | 024.18          | 0.21         |
| North Main                                | below diversion                         | 88488          | 665.00             | 68.00          | 74.24          | 70.06     | 74.31          | 0.000234   | 2.13         | 311.54           | 62.92           | 0.17         |
| North Mein                                | below diversion                         | 88488          | 1249.00            | 68.00          | 76,59          | 71.08     | 76.70          | 0.000245   | 2.66         | 471.03           | 72.90           | 0.18         |
| North Main                                | below diversion                         | 88488          | 1979.00            | 68.00          | 78.48          | 72.10     | 78.64          | 0.000267   | 3.27         | 619.95           | 90.46           | 0.20         |
| North Main                                | below diversion                         | 88488          | 3903.00            | 68.00          | 81.85          | 74.19     | 82.09          | 0.000271   | 4.11         | 1842.28          | 1050.47         | 0.21         |
|   | The second second                       | T              |                    |                |                |           |                |            |              |                  | 100.77          |              |

HEC-RAS Plan. P 50% D (Continued) Min Ch El W.S. Elev Crit W.S. Q Total Reach River Sta E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (ft) (ft/ft) (ft) (fl/s) (sq fl) North Main below diversion 88300 68.00 665.00 74.20 70.04 74.27 0.000232 2.13 312.59 63 10 0.17 North Main below diversion 88300 1249.00 68.00 76.54 71.05 76.65 0.000244 2.65 471.941 72.70 0.18 North Main below diversion 88300 1979.00 68.00 78 43 72.06 0.000266 3.27 619.25 89.20 0.20 North Main below diversion 88300 3903.00 68.00 81.78 74.13 82.03 0.000289 4.24 1540.19 709.87 0.22 North Main below diversion 87300 665.00 68.00 73.94 70.04 74.02 0.000268 2.24 296.70 61 76 0.18 North Main below diversion 87300 1249.00 68.00 76.27 71.04 76.39 0.000278 2.77 451.40 70 86 0.19 North Mair below diversion 87300 78.13 1979.00 68.00 72.05 78.31 0.000299 3.40 602 12 171 50 0.21 North Main elow diversion 87300 3903.00 68.00 81.58 74.14 81.75 0.000226 3.72 2564.63 1521.81 0.19 North Main below diversion 85942 665.00 68.00 73.43 70.19 73.55 0.000453 2.71 245.24 57.03 0.23 North Main below diversion 85942 1249.00 68 00 75.76 71.25 75.92 0.000426 3.21 389.62 66.74 0.23 North Main low diversion 85942 1979.00 68.00 77.59 72.31 77.82 0.000435 3.85 518.53 74.53 0.25 North Main below diversion 85942 3903.00 68.00 81.05 81.34 0.000382 4.64 1840.31 1288.72 0.25 North Main below diversion 85850 665.00 68.00 73.40 70.21 73.52 0.000469 2.74 242.B7 57 11 0.23 North Main below diversion 85850 1249.00 68.00 75.74 71.28 75.90 0.000437 3.22 388.22 67.61 0.24 below diversion North Main 65850 1979.00 68.00 77.55 72.36 77.79 0.000442 3.85 518.69 75.80 0.25 North Main elow diversion 3903.00 68.00 80.99 74.51 81.32 0.000411 4.78 1524.13 1300.66 0.26 North Main below diversion 85835 Bridge North Main below diversion 85820 665.00 68 00 73 35 70.21 73.47 0.000486 2.77 239.70 56.87 0.24 North Main below diversion 85820 1249.00 68.00 75.67 71 28 75.84 0.000450 3.25 384.15 67.34 0.24 North Main below diversion 85820 1979.00 68.00 77.49 72.36 77.72 0.000456 3.89 513.67 75.50 0.25 North Main below diversion **B5820** 3903.00 68.00 80.90 74.51 81.23 0.000421 4.81 1556.92 1372,44 0.26 North Main below diversion 85763 665.00 68.00 73.32 70.21 73 44 0.000494 2.79 238.22 56.75 0.24 North Main below diversion 85763 1249.00 68.00 75.65 71.28 75.82 0.000456 3.27 382.53 67.23 0.24 North Main below diversion 85763 1979.00 68.00 77.46 72.36 77.70 0.000461 3.90 511.60 75.39 0.25 North Main below diversion 85763 3903.00 68.00 80.85 74.52 81.20 0.000446 4.93 1381.61 1297.37 0.27 North Mair 83100 below diversion 665.00 66,00 72.50 58.21 72.57 0.000240 2.17 305.93 61.30 0.17 North Main below diversion 83100 1249.00 66.00 74.84 69.28 74.95 0.000251 2.72 461.13 71.58 0.18 North Main below diversion 83100 1979.00 66,00 76.57 70.36 76 75 0.000293 3,42 591.78 79.18 0.21 North Main below diversion 83100 3903.00 66.00 79.85 72.52 80.17 0.000356 4.68 1166.57 627.61 0.24 North Main below diversion B2100 665.00 66.00 72.17 68 47 72 29 0.000340 2.73 252.88 55.08 0.21 North Main below diversion 82100 1249.00 66.00 74.46 69.63 74 65 0.000354 3.53 390.75 65.53 0.23 North Main below diversion 82100 1979.00 66.00 76.07 70.73 76.38 0.000457 4.55 502.09 234.B3 0.26 North Main below diversion 82100 3903.00 66.00 79.04 73.01 79.67 0.000659 6.59 739.41 2197.48 0.33 North Mai below diversion 82000 665.00 66.00 72.14 68.47 72 25 0.000348 2.75 250.B7 54.91 0.21 North Main below diversion 82000 1249.00 66.00 74.42 69.63 74 61 0.000360 3.55 388.23 65.35 0.23 Mortin Mair below diversion 82000 1979.00 66.00 76.01 70.73 76.33 0.000466 4.58 498.35 225.35 0.27 North Main below diversion 82000 3903.00 66.00 78.96 73.01 79.60 0.000675 6.64 732.49 2145.08 0.34 North Main below diversion 81100 665.00 66.DO 71.79 68.29 71.92 0.000374 2.96 248.90 63.24 0.22 North Mai below diversion 81100 1249.00 66.00 74.05 69.39 74 27 0.000401 3.85 386.13 237.34 0.24North Main below diversion 1979.00 81100 66.00 75.50 70.52 75.87 D 000551 5.06 489.31 580.18 0.29 North Main below diversion 81100 3903.00 66.00 78.23 72.95 78 94 0.000794 7.21 929.50 1432.79 0.37 North Mair 80100 low diversion 665.00 66.00 71.42 68.15 71.53 0.000383 2.68 265.04 72.13 0.22 North Main helow diversion 80100 1249.00 66.00 73.72 69.20 73.88 0.000339 3.28 454.88 93.15 0.22 North Main draw diversion 80100 1979.00 66.00 75.07 70.26 75.34 0.000457 4.28 594.16 115.49 0.26 80100 North Main dow diversion 3903.00 66,00 77.71 72.36 78.18 0.000612 5.94 1073.68 812.95 0.32 North Main pelow diversion 79100 665.00 66.00 70.85 68.30 71.02 0.000707 3 30 203 18 53,17 0.29 North Main halow diversion 79100 1249.00 66.00 73.22 69,39 73.45 0.000532 3.88 342.26 243.01 0.27 North Main below diversion 79100 1979.00 66.00 74.32 70.45 74.74 0.000778 5.21 415.65 303.02 0.33 North Main below diversion 79100 3903.00 66.00 75.44 72.59 77.30 0.001214 7.67 895.11 1762.74 0.43 North Main below diversion 77548 665.00 66.00 69.02 67.81 69.29 0.001965 4.14 160.57 60.83 0.45 North Main below diversion 7754R 1249.00 66.00 72.57 68.71 72.73 0.000391 3.17 408.53 78 90 0.23 North 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665 00 62.00 69.09 64.07 69.14 0.000145 369.26 1.80 67.21

North Main

below diversion

77357

1249.00

62.00

72.60

65.08

72.66

0.000099

2.02

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82.31

0.14

HEC-RAS Plan- P 50% D, (Continued) Top Width Froude # Chi Q Total Min Ch El W.S. Eley Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area River Sta Reach (cfs): (ft/ft) (fils) (ft) (ft) (fi pe) (ft). 0.000190 2.95 North Main below diversion 77357 1979.00 62.00 73.33 66.10 73.46 692.51 1392.93 0.17 4150.21 North Main below diversion 77357 3903.00 62,00 74.26 68.20 74.69 0.000537 5.28 789.41 0.29 North Main below diversion 77343 Bridge 69.12 North Main below diversion 77329 665.00 62.00 69.07 64.07 0.000146 1.81 368.23 67.15 0.14 North Main 1249.00 62.00 72.59 65.08 72.65 0.000100 2.02 630,53 82,25 0.12 1979.00 73.30 66.10 73,44 0.000192 2.95 690.44 1025.77 0.17 North Main 77329 62.00 74.13 0.000401 4.52 2465.68 2330.09 North Main below diversion 77329 3903.00 62.00 68,19 74.40 0.25 North Main 665.00 60.10 69.07 62.21 69.10 0.000080 1.49 446 16 67 13 0.10 below diversion 77179 North Main 1249.00 60.10 72.58 63.28 72.63 0.000070 1.80 708 49 82 24 0.10 North Main 1979.00 60.10 73,30 64 39 73.41 0.000138 2 65 768 20 2321 78 0 14 below diversion North Main below diversion 77179 3903,00 60.10 74.14 66.72 74.31 0.000241 3.69 3404.06 2341.55 0.19 North Main below diversion 77143 Culver North Main 77107 665.00 60.10 68.60 62.22 68.64 0.000098 1.60 415.13 65.19 0.11 below diversion North Main below diversion 77107 1249 00 60.10 70.86 63.29 70.93 0.000134 2.19 573.02 74.73 0.14 North Main below diversion 77107 1979.00 60.10 72.06 64.39 72.20 0.000211 3.01 665.77 79,95 0.17 North Main below diversion 77107 3903.00 60.10 74.13 66.72 74.29 0.000236 3.64 3654.19 4295.52 0.19 1.47 452.62 71.20 0.10 North Main below diversion 76585 665.00 60.00 68.56 62.15 68.59 0.000077 North Main below diversion 76585 1249.00 60.00 70.80 63.19 70.87 0.000101 2.05 623.22 80.85 0.12 0.16 64.25 72.09 0.000166 2.86 720.17 85,85 North Main below diversion 76585 1979.00 60,00 71.96 879.18 2307.27 0.24 0.000370 4.76 North Main below diversion 76585 3903.00 60.00 73.74 66.39 74.09 665.00 68.51 0.000081 1.52 439.03 68.25 0.10 60.00 62.14 North Main below diversion 76000 0.000108 2.12 612.40 97.22 0.13 63.19 70.80 1249.00 60.00 70.73 North Main below diversion 76000 71.99 0.000180 2.96 730.67 114.33 71.85 64.25 1979.00 60.00 North Main below diversion 78000 73.86 0.000394 1160.05 3883.5 0.25 73.51 68.40 North Main below diversion 76000 3903.00 60.00 60.00 68.50 62.24 0.000079 1.59 429.45 69.01 0.10 North Main 665.00 below diversion 70.80 2.26 608.69 104.36 0.13 North Main 75929 1249.00 60.00 70.73 63.32 0,000111 below diversion North Main 1979.00 60.00 71.83 64.40 71.98 0.000188 3.16 734.67 124.35 0.17 below diversion 75929 60.00 66,54 0.000202 3.64 4432.24 4374.48 0.18 3903.00 North Main below diversion 75929 62.19 68.53 0.000078 1.59 430.29 67.56 0.10 665.00 60.00 68.50 North Main 75866 below diversion 0.000110 2.26 597.25 90.94 0.13 1249.00 60.00 70.72 63.26 70.79 North Main below diversion 3.17 705.81 106.17 0.17 North Main 1979.00 60.00 64.33 71.97 0.000189 below diversion 5105.97 0.000167 3.32 4448.52 0.17 below diversion 3903.00 60.00 73.65 66.47 73.75 North Main North Main 75852 Bridge below diversion 665.00 68.48 62.19 68 52 0.000079 1.59 429 09 67.49 0.10 75838 60.00 North Main noisversion 70.69 63.28 70 77 0.000112 2.26 594.94 90.51 0.13 North Main 75838 1249.00 60.00 below diversion 1979.00 60.00 71.73 64.33 71.89 0.000194 3.20 698.29 107.59 0.17 North Main below diversion 75838 North Main 73.55 66.46 73.67 0.000186 3.49 4800.15 4398.39 0.18 75838 3903.00 60.00 below diversion North Main 75752 665.00 60 00 68.47 62.19 68.51 0.000079 1.59 428.70 67.46 0.10 below diversion North Main below diversion 75752 1249.00 60.00 70.68 63 26 70.76 0.000112 2.27 594.17 90.37 0.13 107.34 North Main 1979.00 60.00 71.72 64.32 71.87 0.000195 3.21 696.67 0.17 below diversion 75752 3903.00 60.00 73.32 66.46 73.60 0.000340 4.66 2034.08 4087.30 0.24 North Main below diversion 68.45 0.000077 1.58 430,15 66.39 0.10 68.41 North Main below diversion 75000 665.00 60.00 62.11 2.22 782.67 527.82 0.13 70.60 63.16 70,68 0.000107 North Main below diversion 75000 1249.00 60 00 1535.64 0.15 0.000154 2.85 71.62 64.21 71.73 North Mair below diversion 75000 1979.00 60.00 5298.96 4460.74 0.16 0.000151 3.11 66.35 73.38 North Main below diversion 75000 3903.00 60.00 73.29 0.000115 1.71 389.72 65.46 62.49 0.12 68.32 North Main below diversion 74000 665.00 60.00 0.000141 662.93 70.56 2.32 729.50 0.14 North Main below diversion 74000 1249.00 60.00 70.48 63.61 64.71 71.57 0.000163 2.69 2287.25 2382.56 0.16 1979.00 60.00 71.48 North Main below diversion 74000 66,93 73.25 0.000087 2.20 4315.59 0.12 3903.00 73.22 North Main below diversion 74000 60.00 60.00 68.17 62.46 68.24 0.000140 2.08 418.51 66.02 0.14 856.00 North Main below diversion 73000 2.82 565.83 73.70 0.16 70.28 63.54 70.40 0.000181 1516.00 60.00 North Main below diversion 73000 3.55 633.24 76 92 0.20 60.00 71.17 64.34 71.37 0.000254 2106.00 North Main below diversion 73000 4.70 2890.45 3336.73 0.24 72.80 66.33 73.08 0.000365 3932.00 60.00 North Main below diversion 73000 62.42 68.22 0.000134 2.04 428.43 67.98 0.14 72857 856.00 60.00 68.15 North Main selow diversion 63.48 70.37 0.000173 2.75 579.67 75.95 0.16 1516.00 60.00 70.25 North Main 72857 noisrevib woled 2106.00 60.00 71.15 64.28 71.33 0.000243 3 47 648.91 79.30 0.19 below diversion 72857 North Main 3932.00 72.73 66.23 73.03 0.000373 4.75 2635.46 2922.88 0.25 North Main 72857 below diversion

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63 66

64.49

66.51

68 21

70.36

71 32

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0.000157

0.000202

0.000268

0.000312

2.18

2.95

3.62

4.33

399.57

570.59

783.43

3928.62

64.00

205.89

273.04

3999.19

0.15

0.17

0.20

| River                    | Reach   | River Sta                             | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area          | Top Width         | Froude # Chl |
|--------------------------|---|---------------------------------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|--------------------|-------------------|--------------|
| North Main               | below diversion   | 72780                                 | (cfs)              | (ft)           | (ft)           | <u>(ft)</u>    | (ft)           | (ft/ft)    | (ft/s)       | (sq ft)            | (fl)              |              |
| TOTAL MEAN               | DOOM GETGING!   | 72700                                 | Bridge             |                |                |                | <u> </u>       |            |              |                    |                   |              |
| North Main               | below diversion   | 72766                                 | 856.00             | 60.00          | 68.12          | 62.56          | 68.19          | 0.000158   | 2.42         |                    |                   |              |
| North Main               | below diversion   | 72768                                 | 1516.00            | 60.00          | 70.21          | 63.66          | 70.35          | 0.000138   | 2.19<br>2.96 | 398.55             | 63.94             | 0.15         |
| North Main               | below diversion   | 72766                                 | 2106.00            | 60.00          | 71.09          | 64.49          | 71.29          |            | 3.63         | 566.58<br>775.71   | 204.41            | 0.17         |
| North Main               | below diversion   | 72768                                 | 3932.00            | 60.00          | 72.44          | 66.51          | 72.79          | 0.000465   | 5.18         | 2626.23            | 270.89            | 0.20         |
| 1000                     | A. e. a.  | V                                     |                    |                |                |                |                |            | 0.10         | 2020.23            | 3740.03           | 0.27         |
| North Main               | below diversion   | 72680                                 | 856.00             | 60.00          | 58.11          | 62.55          | 68.18          | 0.000159   | 2.19         | 397.78             | 63.89             | 0.15         |
| North Main               | below diversion   | 72680                                 | 1516.00            | 60.00          | 70.19          | 63.66          | 70.33          | 0.000205   | 2.96         | 563.34             | 203.21            | 0.13         |
| North Main               | below diversion   | 72680                                 | 2106.00            | 60.00          | 71.07          | 64.49          | 71.27          | 0.000274   | 3.65         | 769.74             | 269.22            | 0.20         |
| North Main               | below diversion   | 72680                                 | 3932.00            | 60.00          | 72.34          | 66.51          | 72.74          | 0.000518   | 5.43         | 2266.45            | 3665.21           | 0.29         |
|                          | A THE STATE OF STATE |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| North Main               | below diversion   | 71500                                 | 856.00             | 60.00          | 67.90          | 62.56          | 67.99          | 0.000164   | 2.32         | 394.27             | 56.00             | 0.15         |
| North Main               | below diversion   | 71500                                 | 1516.00            | 60.00          | 69.93          | 63.66          | 70.08          | 0.000221   | 3.17         | 535.82             | 73.91             | 0.18         |
| North Main               | below diversion   | 71500                                 | 2106.00<br>3932.00 | 60.00          | 70.95          | 64.45          | 71.02          | 0.000127   | 2.58         | 3900.98            | 3772.18           | 0.14         |
|                          | The bearings  | , 1000                                | 3532.00            | 60.00          | 72.44          | 56.44          | 72.46          | 0.000066   | 2.03         | 9717.25            | 4037.91           | 0.10         |
| North Main               | below diversion   | 70221                                 | 856.00             | 60.00          | 67.70          |                |                |            |              |                    |                   |              |
| North Main               | below diversion   | 70221                                 | 1516.00            | 60.00          | 67.70<br>69.82 | 62.43          | 67.78          | 0.000161   | 2.26         | 402.76             | 68,66             | 0.15         |
| North Main               | below diversion   | 70221                                 | 2106.00            | 60.00          | 70.87          | 63.49<br>64.26 | 69.86          | 0.000100   | 2.12         | 2480.08            | 1841.19           | 0.12         |
| North Main               | below diversion   | 70221                                 | 3932.00            | 60.00          | 72.36          | 66.21          | 70.89<br>72.38 | 0.000061   | 1.79         | 4780.52            | 3608.61           | 0.10         |
| 1, 9, 27                 | 1. 45. 7.44. 1.   |                                       |                    |                | 12.33          | 50.21          | 12.38          | 0.000057   | 1.89         | 8234.33            | 3718.42           | 0.10         |
| North Main               | below diversion-  | 70158                                 | 856.00             | 60.00          | 67.70          | 62.25          | 67.76          | 0.000131   | 1.94         | 117.50             | *** **            |              |
| North Main               | below diversion   | 70158                                 | 1516,00            | 60,00          | 69.77          | 63.23          | 69.85          | 0.000131   | 2.38         | 1152.03            | 74.43             | 0.13         |
| North Main               | below diversion   | 70158                                 | 2106.00            | 60.00          | 70.82          | 63.97          | 70.88          | 0.000107   | 2.26         | 3285.29            | 681.35<br>3792.84 | 0.14         |
| North Main               | below diversion   | 70158                                 | 3932.00            | 60.00          | 72.34          | 65.85          | 72.37          | 0.000084   | 2.21         | 7061.08            | 4017.59           | 0.13         |
|                          | Mark Control  |                                       |                    |                |                |                |                |            |              | . 501.50           | 7017.38           | 0.12         |
| North Main               | below diversion   | 70144                                 | Bridge             |                |                |                |                |            |              |                    |                   |              |
| N                        | -   |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| North Main               | below diversion   | 70130                                 | 856.00             | 60.00          | 67.69          | 62.25          | 67.75          | 0.000132   | 1.94         | 446.74             | 74.38             | 0.13         |
| North Main<br>North Main | below diversion   | 70130                                 | 1516.00            | 60,00          | 69.74          | 63.23          | 69.82          | 0.000140   | 2.39         | 1131.02            | 670.98            | 0.14         |
| North Main               | below diversion   | 70130                                 | 2106.00            | 60.00          | 70.77          | 63.97          | 70.83          | 0.000113   | 2.32         | 3162.71            | 3787.39           | 0.13         |
| ACCES MAN                | below diversion   | 70130                                 | 3932.00            | 60.00          | 72.30          | 65.84          | 72.33          | 0.000087   | 2.24         | 6960,59            | 4009,19           | 0.12         |
| North Main               | below diversion   | 70044                                 | 856.00             |                | 67.00          |                |                |            |              |                    |                   |              |
| North Main               | below diversion   | 70044                                 | 1516.00            | 60.00          | 67.69          | 62.25          | 67,75          | 0.000132   | 1.94         | 446.60             | 74.37             | 0.13         |
| North Main               | below diversion   | 70044                                 | 2106.00            | 60.00<br>60.00 | 69.73          | 63.23          | 69,81          | 0.000141   | 2.40         | 1123.68            | 667.29            | 0.14         |
| North Main               | below diversion:  | 70044                                 | 3932.00            | 60.00          | 70.76          | 63.97          | 70,82          | 0.000115   | 2.34         | 3120,62            | 3785.51           | 0.13         |
| Harry State              | er er er er er er er er er er er er er  | <del> </del>                          | 0302.00            | 30.50          | 72.28          | 65.84          | 72,32          | 0.000088   | 2.26         | 6920.90            | 4005.87           | 0.12         |
| North Main               | below diversion   | 70000                                 | 856.00             | 60,00          | 67.69          | 62.17          | 67,74          | 0.000119   | 4 00         |                    |                   |              |
| North Main               | below diversion   | 70000                                 | 1516.00            | 60.00          | 69.72          | 63.13          | 69.80          | 0.000140   | 1.85         | 466.74             | 78.36             | 0.13         |
| North Main               | below diversion   | 70000                                 | 2106.00            | 60.00          | 70.74          | 63.84          | 70.81          | 0.000140   | 2.41         | 947.73             | 625.53            | 0.14         |
| North Main               | below diversion   | 70000                                 | 3932.00            | 60.00          | 72.27          | 65.66          | 72.31          | 0.000101   | 2.43         | 2644.47<br>6269.65 | 3505.75           | 0.14         |
|                          | Comments to the stage   |                                       |                    |                |                |                |                | 5.555,51   | 2.73         | 0209.00            | 4000.47           | 0.13         |
| North Main               | below diversion   | 89000                                 | 856.00             | 60.00          | 67.58          | 62.03          | 67.63          | 0.000109   | 1.78         | 486.42             | 78.91             | 0.12         |
| North Main               | below diversion   | 69000                                 | 1516.00            | 60.00          | 69.58          | 62.94          | 69.67          | 0.000138   | 2.38         | 804.07             | 611.29            | 0.12         |
| North Main               | below diversion   | 69000                                 | 2106.00            | 60.00          | 70.60          | 63.62          | 70.68          | D.000130   | 2.49         | 2292.46            | 4385.26           | 0.14         |
| North Main               | below diversion   | 69000                                 | 3932.00            | 50.00          | 72.15          | 65.40          | 72.21          | 0.000111   | 2.55         | 5745.20            | 4780.62           | 0.13         |
|                          |   |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| North Main               | below diversion   | 68000                                 | 856.00             | 60.00          | 67.39          |                | 67.48          | 0.000212   | 2.34         | 368,98             | 65.45             | 0.17         |
| North Main               | below diversion   | 68000                                 | 1516.00            | 60.00          | 69.33          |                | 69.48          | 0.000263   | 3,14         | 503,05             | 73.17             | 0.19         |
| Vorth Main               | below diversion   | 68000                                 | 2106.00            | 60.00          | 70.28          |                | 70.48          | 0.000332   | 3.79         | 907.16             | 1374.21           | 0.22         |
|                          | below diversion   | 68000                                 | 3932.00            | 60.00          | 71.89          |                | 72.03          | 0.000280   | 3.88         | 3835.88            | 2365.54           | 0.21         |
| North Main               | below diversion   | 66518                                 | 856.00             | 20.00          | 57.00          |                |                |            |              |                    |                   |              |
| Vorth Main               |   | 66518                                 | 1516.00            | 60.00          | 67.09<br>68.94 | 62 45          | 67.17          | 0.000218   | 2.32         | 371.48             | 67.37             | 0.17         |
| Vorth Main               |   | 66518                                 | 2106.00            | 60.00          | 70.00          | 63.45          | 69.09          | 0.000272   | 3.11         | 504.01             | 75.22             | 0.20         |
| Vorth Main               | below diversion   | 86518                                 | 3932.00            | 50.00          | 71.73          |                | 70.09          | 0.000191   | 2.83         | 2494.32            | 2160.45           | 0.17         |
| - 1                      | side, ye  | · · · · · · · · · · · · · · · · · · · |                    | 23.00          | . 1.73         |                | 11.17          | 0.000105   | 2.37         | 7634.64            | 3648.48           | 0.13         |
| lorth Main               | below diversion   | 86456                                 | 856.00             | 60.00          | 67.08          | 62,41          | 67,16          | 0.000220   | 2.32         | 370.69             | 87.44             |              |
| Vorth Main               | below diversion   | 66456                                 | 1516.00            | 60.00          | 68.93          | 63.45          | 69.08          | 0.000220   | 3.11         | 502.89             | 67.32<br>75.16    | 0.17         |
| Vorth Main               | below diversion   | 66456                                 | 2106.00            | 60.00          | 70.00          | 64.23          | 70.09          | 0.000191   | 2.83         | 2492.54            | 2160.18           | 0.20         |
| forth Main               | below diversion   | 66458                                 | 3932.00            | 60.00          | 71.73          | 66.14          | 71.77          | 0.000105   | 2.37         | 7629.30            | 3647.40           | 0.17<br>0.13 |
| <u> </u>                 | 11 2 2 2  |                                       |                    |                |                |                |                |            |              |                    | 2277.70           | 0.13         |
| lorth Main               | below diversion   | 66442                                 | Bridge             |                |                |                |                |            |              |                    |                   |              |
|                          | 1   |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| lorth Main               |   | 66428                                 | 856.00             | 60.00          | 67.05          |                | 67,14          | 0.000222   | 2.33         | 369.25             | 67.23             | 0.17         |
| lorth Main               | below diversion   | 66428                                 | 1516.00            | 60.00          | 68.82          |                | 68.97          | 0.000287   | 3.16         | 494.64             | 74.70             | 0.20         |
| lorth Main               |   | 66428                                 | 2106.00            | 60.00          | 69.91          |                | 70.02          | 0.000210   | 2.95         | 2313.51            | 2132.17           | 0.18         |
| FUEL WIND                | below diversion   | 86428                                 | 3932.00            | 60.00          | 71.68          |                | 71.72          | 0.000111   | 2.42         | 7448.11            | 3610.73           | 0.13         |
| lorth Main               | hairan diversion  | 66342                                 | 950.00             |                |                |                |                |            |              |                    |                   |              |
| orth Main                |   | 66342<br>66342                        | 856.00<br>1516.00  | 60.00          | 67.04          |                | 67.12          | 0.000225   | 2.34         | 368.06             | 67.15             | 0.17         |
| forth Main               |   | 66342                                 | 2106.00            | 60.00          | 68.80          |                | 58.95          | 0.000290   | 3.17         | 492.91             | 74.61             | 0.20         |
| lorth Main               |   | 66342                                 | 3932.00            | 60.00          | 69.84<br>71.61 |                | 69.98          | 0.000272   | 3.34         | 1546.33            | 1384.94           | 0.20         |
| TOT BY SHOWIN            | unit un prulit  |                                       | 3002.00            | 00.00          | / 1.01         |                | 71.69          | 0.000183   | 3.11         | 5369.38            | 2892.28           | 0.17         |
| iorth Main               | below diversion   | 65921,*                               | 856.00             | 60.00          | 56.93          |                | 67.02          | 0.000239   | 2.00         |                    |                   |              |
| lorth Main               |   | 65921.*                               | 1516.00            | 60.00          | 68.66          |                | 68.82          | 0.000239   | 2.38         | 361.01             | 66.71             | 0.18         |
|                          |   | 65921.*                               | 2108.00            | 60.00          | 69.70          | <del></del>    | 69.87          | 0.000308   | 3.23         | 493.90<br>1396.53  | 203.34<br>1360.34 | 0.21         |

| River                    | Plan- P 50% D<br>Reach   | River Sta       | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Slope                            | Vel Chni       | Flow Area  | Top Width  | Froude # Chl                          |
|--------------------------|--|-----------------|--------------------|----------------|----------------|--|----------------|---------------------------------------|----------------|--|--|---------------------------------------|
|                          |  |                 | (cfs)              | (fl)           | (ft)           | (ft)   | (ff)           | (fVft)                                | (ft/s)         | (sq ft)  | (ft)   |                                       |
| orth Main                | below diversion  | 65921.*         | 3932.00            | 60.00          | 71.52          |  | 71.61          | 0.000202                              | 3.24           | 4962.61  | 2827.78  | 0.18                                  |
| and the second           | No. of the last of | actan.          | 959.00             |                | 20.00          |  |                | 0.000056                              | 2.42           | 252.22   | 66.30  |                                       |
| rth Main<br>rth Main     | below diversion  | 65500<br>65500  | 856.00<br>1516.00  | 60.00          | 68.82<br>68.51 |  | 66.91<br>68.68 | 0.000256                              | 2.43<br>3.28   | 353.33<br>526.75                                 | 66.20<br>288.08                                  | 0.18                                  |
| orth Main                | below diversion  | 65500           | 2106.00            | 60.00          | 69.59          |  | 69.74          | 0.000327                              | 3.40           | 1640.84  | 1739.34  | 0.21                                  |
| orth Main                | below diversion  | 65500           | 3932.00            | 60.00          | 71.47          |  | 71.52          | 0.000293                              | 2.79           | 5808.82  | 2659.19  | 0.15                                  |
| es eleterent (1)         |  | CONTROL CONTROL |                    | 30.00          | 71.41          |  |                | 2.300.01                              | 2.73           | 2000.02  |  | V.14                                  |
| orth Main                | below diversion  | 65133.3°        | 856.00             | 60,00          | 66.68          |  | 66.79          | 0.000338                              | 2.66           | 322.20   | 64.53  | 0.21                                  |
| orth Main                | below diversion  | 65133.3*        | 1516.00            | 60.00          | 68.34          |  | 68.54          | 0.000418                              | 3.56           | 435.47   | 73.30  | 0.24                                  |
| orth Main                | below diversion  | 85133.3"        | 2106.00            | 60.00          | 69.31          |  | 69.60          | 0.000511                              | 4.30           | 598.09   | 947.20   | 0.27                                  |
| orth Main 🗼              | below diversion  | 65133,3*        | 3932.00            | 60,00          | 71.29          |  | 71.44          | 0.000320                              | 3.96           | 3649.92  | 2149.44  | 0.22                                  |
|                          |  |                 |                    |                |                |  |                |                                       |                |  |  |                                       |
| orth Main                | below diversion  | 64766.6*        | 856.00             | 60,08          |                |  | 88.87          | 0.000380                              | 2.77           | 309.68   | 62.89  | 0.2                                   |
| orth Main                | below diversion  | 84766.6*        | 1516.00            | 60.00          |                |  | 68.39          | <del></del>                           | 3.70           | 417.11   | 69.67  | 0.2                                   |
| orth Main                | below diversion  | 64766.6*        | 2106.00            | 60.00          |                | ļ  | 69,41          | -                                     | 4.51           | 483.21   | 74.40  | 0.2                                   |
| orth Main                | below diversion  | 84766.6*        | 3932.00            | 60.00          | 71.06          | ļ  | 71.29          | 0.000467                              | 4.69           | 2653.52  | 1531.93  | 0.2                                   |
| orth Mein                | below diversion  | 84400           | 856.00             | 60.00          | 66.42          | 62.47  | 66.54          | 0.000351                              | 2.71           | 316.04   | 61.39  | 0.2                                   |
| orth Main                | below diversion  | 64400           | 1516.00            | 60.00          | <del></del>    | 63.51  | 68.23          | 1                                     | 3.68           | 418.46   | 67.20  | 0.2                                   |
| orth Main                | below diversion  | 64400           | 2106.00            | 60.00          | +              | 64,31  | 69.20          |                                       | 4.52           | 478.05   | 70.48  | 0.29                                  |
| orth Main                | below diversion  | 64400           | 3932.00            | 60.00          |                | 66.25  | 71.09          |                                       | 5.48           | 2003.57  | 1470.07  | 0.3                                   |
| mission and the          | 440 - 74   | all the sea     |                    |                |                |  |                |                                       |                |  |  |                                       |
| orth Main                | below diversion  | 62879           | 856.00             | 58.00          | 66.07          | 60.77  | 66.15          | 0.000198                              | 2.18           | 461.53   | 710.95   | 0.1                                   |
| orth Main                | below diversion  | 62879           | 1516.00            | 58.00          | +              | 61.91  | 67.90          | 0.000099                              | 1.85           | 2346.51  | 3229.40  | 0.1                                   |
| orth Main                | below diversion  | 82879           | 2106.00            | 58.00          |                | 62.75  | 68.86          |                                       | 1.79           | 3623.06  | 4532.18  | 0.1                                   |
| orth Main                | below diversion  | 62879           | 3932.00            | 58.00          | 70,73          | 64.80  | 70.75          | 0.000067                              | 1.88           | 6795.70  | 9041.74  | 0.1                                   |
|                          |  | Sections:       | <b></b>            |                | <u> </u>       |  |                |                                       | L              |  |  |                                       |
| orth Main                | below diversion  | 62817           | 856.00             | 58,00          |                | 60.68  | 66.13          | +                                     | 1.38           | 1829.45  | 3184.64  | 0.0                                   |
| orth Main                | below diversion  | 62817           | 1516.00            | 58.00          |                | 61.79  | 67.89          | +                                     | 1.17           | 4134.84  | 4945,01  | 0.0                                   |
| orth Main                | below diversion  | 62817           | 2106.00            | 58.00          |                |  | 68.85<br>70.74 | <del></del>                           | 1.21           | 5557.23<br>8563.85                               | 5905.18<br>9112.48                               | 0.0                                   |
| orth Main                | below diversion  | 62817           | 3932.00            | 58,00          | 70.73          | 65.32  | 10.74          | 0.000035                              | 1.44           | 85,650   | 3112.48  | 0.0                                   |
| orth Main                | below diversion  | 62803           | Bridge             |                | <del> </del>   | <del>                                     </del> |                | +                                     |                | <del></del>                                      | <del> </del> -                                   |                                       |
| v.v. mali                | PARCE OF STATE   | , acous         | punde              |                | <del> </del>   |  |                |                                       | <del> </del>   |  | <del>                                     </del> |                                       |
| orth Main                | below diversion  | 62789           | 856.00             | 58.00          | 66.09          | 60.68  | 66.11          | 0.000063                              | 1.35           | 1922.34  | 3064.43  | 0.0                                   |
| orth Main                | below diversion  | 62789           | 1516.00            | 58.00          | -              | 61.79  | 67.87          | +                                     | 1.13           | 4309.13  | 4926.44  | 0.0                                   |
| orth Main                | below diversion  | 62789           | 2106.00            | 58.00          |                |  | 68,84          | +                                     |                | 5781.04  | 5889.78  | 0.0                                   |
| orth Main                | below diversion  | 62789           | 3932.00            | 58.00          |                |  | 70.72          | · · · · · · · · · · · · · · · · · · · |                | <del>                                     </del> |  | 0.0                                   |
| etti (144)               | Barner I. S  |                 |                    |                |                |  |                |                                       |                | <u> </u>   |  |                                       |
| orth Main                | below diversion  | 62703           | 856.00             | 58.00          | 66.09          | 60.68  | 66.10          | 0.000057                              | 1.29           | 2071.57  | 3061.89  | 0,0                                   |
| orth Main                | below diversion  | 82703           | 1516,00            | 58.00          | 67.86          | 61.79  | 67.8           | 7 0.000029                            | 1.08           | 4579,04  | 4922.50  | 0.0                                   |
| lorth Main               | below diversion  | 62703           | 2106.00            | 58.00          |                | 62.61  | 68.83          |                                       | 1,11           | 6119.63  | <del></del>                                      | 0.0                                   |
| lorth Main               | below diversion  | 62703           | 3932.00            | 58.00          | 70.70          | 65.23  | 70.7           | 0.000030                              | 1.32           | 9334.89  | 9034.33  | 0.0                                   |
|                          | 1975 culticat  | The second      | ļ                  |                |                |  | <u> </u>       | <u> </u>                              | ļ <u>.</u>     |  | <del> </del>                                     |                                       |
| orth Main                | below diversion  | 82600           | 856.00             | 58.00          |                |  | 66.09          |                                       | +              |  | 2454.21  | 0.0                                   |
| Iorth Main               | below diversion  | 62600           | 1516.00            | 58.00          | +              |  |                |                                       | -              |  |  | 0.0                                   |
| lorth Main               | below diversion  | 62600           | 2106.00            | 58,00<br>58.00 |                | +  | 68.8           |                                       |                | +  |  | 0.0                                   |
| Iorth Main               | below diversion  | 62600           | 3932.00            | 58.00          | /0./(          | , 65.05  | 10.7           | 0.000013                              | 0.87           | 17133.68   | 1 300.73   | U.L                                   |
| lorth Main               | below diversion  | 81620           | 856.00             | 58.00          | 66.07          | 60.72  | 56.0           | 7 0.000014                            | 0.68           | 4455.45  | 8964.22  | 0.0                                   |
| lorti Main               | below diversion  | 61620           | 1516,00            | 58.00          |                |  | <del></del>    |                                       |                |  |  |                                       |
| lorth Main               | below diversion  | 61620           | 2106.00            | 58.00          |                | · · · · · · · · · · · · · · · · · · ·            |                |                                       | +              | · · · · · · · · · · · · · · · · · · ·            |  |                                       |
| lorth Main               | below diversion  | 61620           | 3932.00            | 58.00          |                | +  | 70.6           |                                       | <del></del>    |  |  |                                       |
|                          | 163.6.2.6.2.6.2.5.   | 1 × × ×         |                    |                |                |  |                |                                       |                |  |  |                                       |
| torth Main               | below diversion  | 61584           | 856,00             | 58.0           | 65.99          | 60.55  | 66.0           | 5 0.000148                            | 2.08           | 448.3  | 7353.50  | 0.                                    |
| torth Main               | below diversion  | 61584           | 1516.00            | <del></del>    |                | <del></del>                                      |                |                                       |                | 3533.0   | 7 9916.56  | 0.                                    |
| lorth Main               | below diversion  | 61584           | 2106.00            | 58.0           |                |  |                |                                       | +              |  |  | ·                                     |
| iorth Main               | below diversion  | 61584           | 3932.00            | 58.0           | 70.68          | 64.36  | 70.6           | 9 0.000022                            | 1.14           | 14022.2  | 13049.93   | 0.                                    |
|                          |  |                 |                    | ļ              |                | <b></b>  |                |                                       |                | ļ  | <u> </u>   |                                       |
| North Main               | below diversion  | 61570           | Bridge             | <b></b>        | <del> </del>   | <del></del>                                      | <u> </u>       | +                                     | <del> </del>   | <b></b>  | <del> </del>                                     |                                       |
|                          | حضيتها   |                 | <del> </del>       |                |                |  | ļ <u></u> -    | 4                                     | ļ - <u>-</u> - |  | 7000   | 1                                     |
| forth Main               | below diversion  | 61556           | 856.00             |                |                |  |                | <del></del>                           |                |  |  | +                                     |
| forth Main               | below diversion  | 61556           | 1516.00            | +              |                |  |                |                                       |                |  |  |                                       |
| forth Main               | below diversion  | 61556           | 2106.00<br>3932.00 |                |                |  | +              |                                       |                |  |  |                                       |
| lorth Main               | below diversion  | 61556           | 3932.00            | 36.0           | 10,0           | 04.30  | , , , , ,      | 9.00002                               | 1.19           | , 10243.0  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,          | · · · · · · · · · · · · · · · · · · · |
| lorth Main               | below diversion  | 61443           | 856,00             | 58.0           | 0 66.0         | 0 60.56  | 66.0           | 0.00003                               | 1.0            | 1 3496.5   | 4 8113.59  | 0.                                    |
| voren Main<br>Vorth Main | below diversion  | 61443           | 1516.00            | +              |                |  | -              |                                       | <del></del>    |  |  |                                       |
| lorth Main               | below diversion  | 61443           | 2106.00            | <del></del>    |                |  |                |                                       |                | +  |  | <del></del>                           |
| Vorth Main               | below diversion  | 61443           | 3932.00            |                |                |  |                | _                                     |                | <del>-</del>                                     |  |                                       |
|                          |  | 1               |                    |                | 1              |  |                |                                       | T              | T  |  | Ţ                                     |
| North Main               | below diversion  | 60700           | 856.00             | 58.1           | 0 65.9         | 8 60.6   | 4 65.9         | B 0.00002                             | 3 0.8          | 6 4938.5   | 8 8436.84  | 0                                     |
| North Main               | below diversion  | 60700           | 1516.00            |                |                | 7 61.7   | 67.7           | 0.00000                               | 7 0.5          | 4 13256.3  | 9 10387.94                                       | 0                                     |
| North Main               | below diversion  | 60700           | 2106.00            | 58.1           |                |  |                |                                       |                | -+   |  | · · · · · · · · · · · · · · · · · · · |
| Vorth Main               | below diversion  | 60700           | 3932.00            | 58.1           | 0 70.6         | 5 65.3   | 7 70.6         | 0.00000                               | 4 0.4          | 8 32523.8  | 6 13042.42                                       | 2 0                                   |
|                          |  |                 |                    |                |                |  | <u> </u>       |                                       |                | ļ  | <u> </u>   |                                       |
| North Main               | below diversion  | 58982           | 856.00             |                |                |  |                |                                       |                | <del>+</del>                                     |  | +                                     |
| TOTOL ITTORICE           |  | 58982           | 1516.00            | 58.0           | 0 67.7         | 3 61.6   | 2 67.7         | 75 0.00006                            | 5 1.6          | 1 4429.6   |  |                                       |

HEC-RAS Plan- P 50% D (Continued) Q Total Min Ch El W.S. Elev E.G. Elev E.G. Slope River Sta Crit W.S. Vel Chnl Flow Area | Top Width | Froude # Chi (cfs) (ft) (ft) (ft) (ft/ft) (ft/s) (sq ft) (ft) 58982 North Main low diversion 3932.00 58.00 70.6 64.38 70.64 0.000012 0.83 22298 63 11628 11 0.04 helow diversion 856.00 North Main 58909 58.00 65.8 60.58 65.89 0.000184 384.12 2.27 2911 35 0.16 helow diversion North Main SAGOG 1516.00 58.00 67.**61** 61.71 67.72 0.000202 2.79 1383.49 5669.59 0.17 North Main w dive 58909 2106.00 58.00 68.68 62.55 68.73 0.000110 2.23 4379.21 7552.92 0.13 helow diversion North Main 58909 3932.00 58.00 70.63 64.54 70.64 0.000035 1.44 13965.76 10168 72 0.08 below diversion North Main 58887 Bridge North Main below diversion 58865 856.00 58.00 65.79 0.000185 60.58 65.87 2.27 383.14 2897.53 0.16 North Main below diversion 58865 1516.00 58.00 67.49 81.71 67.61 0.000226 1165.95 2.93 5457.01 0.18 North Main below diversion 58865 2106.00 58.00 68.62 62.54 68.67 4165.09 0.000118 2.31 7449.57 0.13 North Main below diversion 58865 3932.00 58.00 70.62 64.54 70.62 0.000036 1.45 13863.82 101B6.23 0.08 North Main below diversion 58787 856 00 58.00 65.78 60.58 65.86 0.000187 2.28 382.34 2886.36 0.16 North Main below diversion 58787 1516 00 58.00 67.49 61.71 67.57 0.000171 2.55 1883.48 5464.02 0.16 North Main below diversion 58787 2106.00 58.00 68.62 62.5 0.000078 5635.84 1.88 7703.40 0.11 North Main below diversion 58787 3932.00 58.00 70.61 70.61 0.000023 1.16 16988.46 10113.69 0.06 North Main below diversion 57900 856.00 58.00 65.70 60.46 65.73 0.000100 1.67 1573.29 3278.51 0.12 North Main below diversion 57900 1516 00 58 00 67 49 61.52 67.50 0.000033 1.12 5031.22 4171.30 0.07 North Main below diversion 57900 2106.00 58.00 68.60 62 31 68 60 0.000021 6019.19 0.98 8642.D2 0.06 North Main below diversion 57900 3932.00 58.00 70.60 64.25 70.61 0.000015 0.93 19666.96 9598.92 0.05 North Main 55821 856.00 below diversion 58.00 65.42 60.56 65.48 0.000148 2.10 1235,80 2924.45 0.14 North Main 55821 1516.00 below diversion 58.00 67.44 61.64 67 44 0.000022 0.97 8004.15 7494.69 0.06 North Main 55821 58.00 below diversion 2106.00 68.58 62.43 68.58 0.000010 0.71 15415.11 9395.01 0.04 North Main 55821 below diversion 3932.00 58.00 70.60 64.37 70.60 0.000005 0.57 29264.82 10089.58 0.03 North Main 55758 856.00 58.00 65.42 below diversion 60.50 65.48 0.000142 2.06 1266 01 3063 AR 0.14 North Main 55758 58.00 below diversion 1516.00 67.43 61.58 67.44 0.000018 0.88 9159.16 8081.28 0.05 North Mair below diversion 55758 2106.00 58.00 68.58 62.36 68.58 0.000008 0.61 16721 69 9367 59 0.03 North Main below diversion 55758 3932.00 58.00 70.59 64.29 70.59 0.000004 0.53 30447.80 10017.21 0.03 North Main below diversion 55744 Bridge North Main below diversion 55730 856.00 58.00 65.38 60,50 65.45 0.000165 2 21 850 65 2683 99 0.15 North Mair below diversion 55730 1518.00 58.00 67.41 61.58 67.42 0.000044 1.36 4973.12 6603.06 0.08 North Main below diversion 55730 2106.00 58.00 68.55 62.36 68.56 0.000020 1.00 10661.47 8821.93 0.06 North Mair 58.00 below diversion 55730 3932.00 70.57 64.29 70.57 0.000010 0.79 23569.98 10614.05 0.04 North Main below diversion 55844 856.00 58.00 65.38 60.50 65.44 0.000156 2.16 1027.17 2261.87 0.15 North Mair below diversion 55644 1516.00 58.00 67.41 61.58 67.41 1.14 6153.21 0.000031 6062.71 0.07 North Ma w diversion 2106.00 58.00 68.54 62.36 12378.35 68.55 0.000014 0.85 8226.04 0.05 North Main 64.29 below diversion 55644 3932.00 58.00 70.57 70.57 0.000008 0.70 26310.33 9969.41 0.04 helow diversion 54900 North Main 856 00 58.00 65.27 60.30 65.33 0.000145 2.07 1080.68 2732.27 0.14 North Main 54900 1516.00 58.00 67.39 61.31 67.39 0.000015 0.79 9425.06 5152.36 0.05 North Main below diversion 54900 2106.00 58.00 68.53 62.06 68.54 0.61 15880.58 6376.07 0.03 North Main below diversion 54900 3932.00 58.00 70.56 63.93 70.56 0.000005 0.57 28065.75 7943.42 0.03 North Main below diversion 53165 856.00 58.00 65.07 60.37 65.10 0.000107 1.62 1480.22 1207.34 0.12 North Main below diversion 53165 1516 00 58.00 67 35 61.41 67.36 0.000026 1.00 5907.89 2653.95 0.06 North Main below diversion 53165 2106.00 58.00 68.52 62.15 68 52 0.000018 0.90 9408.11 3396.91 0.05 North Main below diversion 53165 3932 00 58.00 70.55 64.84 70.56 0.000013 17688.26 0.89 6222.76 0.05 North Main 53128 65.00 below diversion 856.00 58.00 60.30 65.08 0.000180 2.24 410.05 749.97 0.16 North Main 1516.00 58.00 67.33 below diversion 53128 61.29 67.35 0.000060 1 59 3655 95 2430.85 0.10 North Main below diversion 53128 2106,00 58.00 68.51 62.03 68.52 0.000034 1.30 7202.27 3507 45 0.07 North Main below diversion 53128 3932.00 58.00 70.55 63,81 70.55 0.000019 1.12 15764.97 6373.63 0.06 North Main 53114 below diversion Bridge North Main 53100 856.00 58.00 below diversion 64.98 60,30 65.08 0.000182 405.69 2.24 87.12 0.16 North Main 1516.00 58.00 61.29 below diversion 53100 67.31 67.33 0.000059 1.5B 3946.83 2899.57 0.09 53100 North Main 2106.00 58.00 68.49 68.50 below diversion 62.03 0.000030 8245.34 1.22 4202.27 0.07 North Main elow diversion 53100 3932.00 58.00 70.53 63.81 70.53 18182.89 0.000016 1.00 6486.50 0.05 North Main below diversion 52987 856.00 58.00 64.96 60.30 65.04 0.000184 2.25 403.97 86.76 0.16 58.00 North Main below diversion 52987 1518.00 67.30 61.29 67.32 0.000060 1.59 3914.42 2884.17 0.10 North Mair below diversion 52987 2106.00 58.00 68.48 62.03 68.49 0.000030 8200.20 4195.05 1.23 0.07 North Main below diversion 52987 3932.00 58.00 70.52 63.81 70.53 0.000016 18149.02 6471.78 1.00 0.05 North Main 52500 856.00 58.00 64.87 below diversion 60.26 64.95 0.000194 2.30 385.72 70.37 0.16 North Mair below diversion 52500 1516.00 58.00 67.28 61.25 67.29 0.000046 1,40 4933.91 3263.14 0.08 North Main 2106.00 58.00 68.47 61.99 below diversion 52500 68.47 0.000023 1.07 9472.01 4275.77 0.06 North Main 3932.00 58.00 70.52 70.52 below diversion 52500 63.80 0.000013 0.90 19532.41 6479.62 0.05 North Main elow diversion 50599 856.00 56.00 64.58 58.69 64.65 0.000135 2.08 423.15 67.66 0.14 HFC-RAS Plan: P 50% D (Continued)
Raken River Sta | Q Total W.S. Elev Min Ch El Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft/ft) (fVs) (sq ft) (ft) (ft) (ft) 0.000156 0.15 North Main 1516.00 56.00 67.03 59.82 67.14 2.72 low diversion 601.59 North Main 56.00 below diversion 50599 2106.00 68.20 60,66 68.36 0.000195 950.12 1055.76 0.1B 3.29 North Main w dive 50599 3932.00 56.00 70.43 62.68 70.47 0.000072 2.27 9471.42 7517.71 0.11 North Main 50550 856.00 56.00 64.5B 58.52 64.64 0.000129 1.92 445.97 69.20 0.13 elow diversion North Main 67.13 0.000142 0.14 50550 1518.00 56.00 67.04 59.60 2.48 628.80 137.73 below diversion 0.15 2106.00 56.00 68.25 60.43 68.34 0.000142 2.70 2094.50 2957.03 North Main low diversion North Main 50550 70.44 62.43 70.46 0.000041 11529.51 0.08 3932.00 56.00 1.65 8505.52 low diversion ekow diversion 50536 North Main Bridge 856.00 56.00 64.55 58.51 34.61 1.93 443.75 69.07 North Main 50522 0.000132 0.13 below diversion North Main 50522 1516.00 56.00 66.95 59.60 57.04 0.000146 2.50 620.73 78.59 0.15 w diversion North Main elow diversion 50522 2106.00 56.00 68.19 60.43 68.30 0.000148 2.74 1944.35 2695.73 0.15 70.44 50522 56.00 70.43 0.000042 1.66 11437.58 8499.47 0.08 3932.00 62.43 North Main w dive 56.00 64,54 58.52 64,60 0.000132 1.93 443.01 69.03 0.13 North Main 50423 856.00 below diversion North Main D.000147 below diversion 50423 1516.00 66.94 59.61 67.03 2.51 619.80 78.54 0.15 56.00 56.00 68.18 60.43 68.28 0.000149 2.75 1909.11 2628.01 0.15 North Main below diversion 50423 2106.00 North Main 70.42 11399.78 8496.98 0.08 low diversion 50423 3932.00 56.00 62.43 70.43 0.000042 1.67 58.54 1.95 North Main 49400 856.00 56.00 64.38 64.44 439.94 71.12 0.14 below diversion North Main below diversion 49400 1516.00 56.00 66.78 59.63 66.87 0.000150 2.49 623.08 81.82 0.15 North Main 49400 2106.00 56.00 68.10 60.43 0.000083 2.04 4558.72 4524.50 0.11 below diversion North Main 3932.00 56.00 70.40 62.43 70.41 0.000019 1.11 16913.22 8193.62 0.06 elow diversion 49400 North Main 56.00 58.67 0.14 48450 856.00 64.23 64.30 0.000151 2,13 412.41 69.36 below diversion 4244.10 North Main 48450 1516.00 56.00 66.73 59.80 66.76 0.000066 1.73 4480.35 0.10 below diversion 68.10 0.000017 0.97 11189.09 5439.02 0.05 below diversion 48450 2106.00 56.00 60.62 68.10 North Main 0.000007 0.03 North Main below diversion 48450 56.00 70.39 62.60 70.39 0.69 25397.38 8648.12 North Main reach 1 233824 2496,00 53.37 64.02 57.06 64.15 0.000302 2.94 850.36 102.25 0.18 North Main 233824 3976.00 53.37 66.45 58.33 66.64 0.000343 3.50 1423.00 1034.53 0.20 5665.00 53.37 67.91 59.54 68.04 0.000282 3.36 3664.60 2055 58 0.18 North Main reach 1 233824 North Main reach 1 233824 10632.00 53.37 70.32 62.43 70.37 0.000165 2.49 9203.24 2545.57 0.14 232833 2496.00 53.37 63.76 56.74 63.87 0.000246 2.66 936.75 112.49 0.16 North Main reach 1 North Main 53.37 66.19 57.92 66.33 0.000259 3.08 1347.86 0.17 232833 3976.00 1897.01 reach 1 67.74 59.04 67.82 0.000163 2530.20 0.14 North Main 232833 5665,00 53.37 2.61 5168.63 North Main 232833 10632.00 53.37 70.22 61.71 70.25 0.000088 2.12 11977.04 2972.63 0.10 reach 1 North Main reach 1 232775 2496.00 53.37 63.75 56.74 63.86 0.000247 2.67 935.09 112.43 0.16 3976.00 53.37 66.17 57.91 66.31 0.000261 3.09 1874.B9 1329.67 0.17 North Main 232775 reach 1 67.72 North Main 5665.00 53.37 59.04 67.80 0.000186 5115.03 2524.06 0.14 reach 1 232775 2.63 70.21 61.71 70.24 0.000088 2.12 11943.89 2971.63 0.10 North Main reach 1 232775 10632.00 53.37 232000 2496.00 53.37 63.55 56.62 63.67 0.000252 2.71 921.87 109.16 0.16 North Main reach 1 3976.00 53.37 66.11 57.75 66 15 0.000125 1.86 5260 32 3110.72 0.12 North Main reach 1 232000. 5665.00 North Main reach 1 232000 53.37 67.70 58.88 67.71 0.000050 1,29 11107.35 3995.50 0.07 North Main reach 1 232000 10632.00 53.37 70.18 61.54 70.19 0.000027 1.08 21447.19 4324.71 0.06 230198 2496 00 52.60 63 16 55 77 63 25 0.000203 2 48 1008 31 116.57 0.15 North Main reach 1 North Main reach 1 230198 3976.00 52 60 65 77 56 87 65.87 0.000185 2.69 2825.74 3183.57 0.15 North Main 230198 5665.00 52.60 67.61 57.95 67.63 0.000046 1.48 12737.27 6269.98 0.07 reach 1 230198 10632.00 52.60 70.15 60.54 70.15 0.000017 0.93 28671.48 6300.00 0.05 North Main reach 1 55.77 1005.85 0.15 230130 2496.00 52 60 63 14 63 23 0.000205 2.48 116.48 North Main reach 1 North Main reach 1 230130 3976 00 52.60 65.75 56.87 65.85 0.000188 2.71 2758.53 3124.07 0.15 0.07 reach 1 230130 5665.00 52 60 67 61 57 95 67.62 0.00004 1.48 12702.97 6269 93 230130 10632.00 52.60 70.14 60.54 70.15 0.000017 0.93 28655.09 6300.00 0.05 North Main 55.85 0.000223 113.19 North Main reach 1 230000 2496 00 52 60 63.10 63.20 2.58 968.66 0.16 North Main reach 1 230000 3976.00 52.60 65.72 56,98 65,82 0.000236 2.67 2650.90 2626.90 0.16 58.09 0.08 North Main reach 1 230000 5665 00 52.60 67.60 67.61 0.000054 1.42 12104.52 6138.93 North Main 0.05 reach t 230000 10632.00 52.60 70.14 60.75 70.14 0.000019 0.94 27750.30 6184.29 0.14 55,62 0.000193 1042.65 North Main reach 1 228819 2496.00 52.61 62.87 62.95 2.39 122.76 reach 1 1412.87 0.16 North Main 228819 3976.00 52.61 65.42 56.68 65.55 0.000221 2.90 480.33 0.12 reach 1 228819 5665.00 52.61 67.46 57.71 67.52 0.000121 2.33 6532.81 5492.05 North Mair North Main reach 1 228819 10632.00 52.61 70.10 60.22 70.11 0.000037 1.26 21156.27 5624.21 0.07 0.18 858.02 106.20 62.66 0.000307 2.91 North Main each 1 227602 2496.00 52.61 62.53 56.00 1134.71 116,39 57.18 0.20 North Mair reach 1 227602 3976 00 52.61 65.02 65.21 0.000349 3.50 4083.41 4414.10 0.18 0.000309 North Main reach 1 227602 5665.00 52.61 67.14 58.34 67.27 3.15 61.05 21770.26 6262.87 0.07 North Mair each 1 227602 10632.00 52.61 70.05 70.06 0.000040 1.18 106.58 0,19 55.72 843.95 North Mair reach 1 226000 2496.00 52.41 62.02 62.15 0.000326 2.96 1112.77 116.00 0.20 North Main 226000 3976.00 52.41 64.43 56.88 64,63 0.000372 3.57 reach 1 North Main 0.000440 1344.21 123.53 0.23 reach 1 226000 5665.00 52.41 66.36 58.00 66.64 4.21

HEC-RAS Plans P 50% D (Continued)

| River                                   | Reach                        | River Sta                                 | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chni | Flow Area         | Top Width                               | Froude # Chi |
|---|------------------------------|---|--------------------|----------------|----------------|----------------|----------------|------------|----------|-------------------|---|--------------|
| March Maria                             |                              | - Careera                                 | (cfs)              | (ft)           | (ft)           | (ft)           | (ft)           | (fl/ft)    | (ft/s)   | (sq ft)           | (ft) ::-                                | 100          |
| North Main                              | reach 1                      | 228000.                                   | 10632.00           | 52.41          | 69,68          | 60.71          | 59.88          | 0.000472   | 4.37     | 4918.19           | 2085.24                                 | 0.23         |
| North Main                              | reach 1                      | 224978                                    | 2496.00            | 52.44          | 64.30          | 47.44          |                |            |          |                   |   |              |
| North Main                              |                              | 224978                                    | 3976.00            | 52.41          | 61.73          | 55,44          | 61.84          | 0.000276   | 2.70     | 923.27            | 118.64                                  | 0.17         |
| North Main                              | reach 1                      | 224978                                    | 5665.00            | 52.41<br>52.41 | 64.11<br>65.98 | 56.50          | 64.27          | 0.000312   | 3.27     | 1217.68           | 128.62                                  | 0.19         |
| North Main                              | reach 1                      | 224978                                    | 10632.00           | 52.41          | 68.95          | 57.54<br>60.05 | 66.21          | 0.000370   | 3.86     | 1478.38           | 185.11                                  | 0.21         |
| e very devoted                          | OF FISCH OF AVEN             |   | 10052.00           | 32.41          | 00,93          | 50.03          | 69.34          | 0.000546   | 5.21     | 2999.30           | 1245.66                                 | 0.26         |
| North Main                              | reach 1                      | 224934                                    | 2496.00            | 52.41          | 61.71          | 55.44          | 61.83          | 0.000277   | 274      |                   |   |              |
| North Main                              | reach 1                      |   | 3976.00            | 52.41          | 64.09          | 56.50          | 64.26          | 0.000217   | 2.71     | 921.71            | 118.58                                  | 0.17         |
| North Main                              | reach 1                      | 224934                                    | 5665.00            | 52.41          | 65.97          | 57.54          | 66.20          | 0.000313   | 3.27     | 1215.73           | 128.56                                  | 0.19         |
| North Main                              | reach 1                      | 224934                                    | 10632.00           | 52.41          | 68.92          | 60.05          | 69.32          | 0.000554   | 5.24     | 1475.08           | 184.35                                  | 0.21         |
| 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                              | AND CLASS                                 |                    |                |                | 30.00          | 03.32          | 0.000354   | 5.24     | 2961,38           | 1242.36                                 | 0.26         |
| North Main                              | reach to                     | 223155                                    | 2496.00            | 52.35          | 61,10          | 55.54          | 61.24          | 0.000390   | 3.07     | 813.26            | 112.42                                  |              |
| North Main                              | reach 1                      | 223155                                    | 3976.00            | 52.35          | 63.35          | 56.64          | 63.56          | 0.000390   | 3.68     | 1083.76           | 112.43                                  | 0.20         |
| North Main                              | reach 1                      |   | 5665.00            | 52.35          | 65.17          | 57.72          | 65.40          | 0.000543   | 3.95     | 1682.52           | 212.37                                  | 0.23         |
| North Main                              | reach 1                      | 223155                                    | 10632.00           | 52.35          | 67.88          | 60.28          | 68.17          | 0.000693   | 4.72     | 3065.75           | 407.46<br>631.38                        | 0.24         |
|   | ray of the second of         |   |                    |                |                |                | 32.11          | 0.000000   | 7.72     | 3003.73           | 031.36                                  | 0.26         |
| North Main                              | reach 1                      | 222000.                                   | 2496.00            | 52.03          | 60.61          | 55.2B          | 60.77          | 0.000434   | 3.20     | 779.50            | 109.24                                  | 0.24         |
| North Main                              | reach 1                      | 222000.                                   | 3976.00            | 52.03          | 62.76          | 56.39          | 62.99          | 0.000495   | 3.88     | 1041.66           | 309.40                                  | 0.21         |
| North Main                              | reach 1                      | 222000.                                   | 5665.00            | 52.03          | 64.52          | 57.48          | 64.74          | 0.000597   | 4.01     | 2035.74           | 850.55                                  | 0.25         |
| North Main                              | reach t                      | 222000.                                   | 10632.00           | 52.03          | 67.42          | 60.08          | 67.54          | 0.000386   | 3.47     | 5303.83           | 1342.99                                 | 0.21         |
| 14.47                                   | Mary 1                       | Service Control                           | 1                  |                |                |                | 3.,54          |            | 9.47     | 5555.03           | 1542.00                                 | 0.21         |
| North Main                              | reach 1                      | 220735                                    | 2496.00            | 51.94          | 59.96          | 55.17          | 60.15          | 0.000555   | 3.47     | 719.12            | 107.70                                  | 0.24         |
| North Main                              | reach 1                      | 220735                                    | 3976.00            | 51.94          | 62.02          | 56.28          | 62.29          | 0.000625   | 4,18     | 950.21            | 116.98                                  | 0.24         |
| North Main                              | reach 1                      | 220735                                    | 5665.00            | 51.94          | 63.47          | 57.39          | 63.86          | 0.000781   | 5.04     | 1124.63           | 123.54                                  | 0.28         |
| North Main                              | reach 1                      | 220735                                    | 10632.00           | 51.94          | 65.83          | 59.99          | 66.62          | 0.001492   | 7.23     | 1822.78           | 985.52                                  | 0.41         |
| 1 121,21                                | en en <del>professione</del> | Application a                             |                    |                |                |                |                |            |          |                   | 355,52                                  | - 3.4.       |
| North Main                              | reach 1                      | 220633                                    | 2496.00            | 51.94          | 59.90          | 55.17          | 60.09          | 0.000570   | 3.50     | 712.53            | 107.42                                  | 0.24         |
| North Main                              | reach 1                      | 220633                                    | 3976.00            | 51.94          | 61.95          | 56.28          | 62.22          | 0.000640   | 4.22     | 942.06            | 116.67                                  | 0.26         |
| North Main                              | reach 1                      | 220633                                    | 5685.00            | 51.94          | 63.38          | 57.39          | 63.78          | 0.000803   | 5.09     | 1113.60           | 123.13                                  | 0.30         |
| North Main                              | reach 1                      | 220633                                    | 10632.00           | 51.94          | 65.60          | 60.00          | 66.47          | 0.001444   | 7.52     | 1608.73           | 782.83                                  | 0.41         |
|   | 1 1983 Sec. 10 1 20          | 5 2 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                    |                |                |                |                |            |          |                   |   |              |
| North Main                              | reach 1                      | 220295                                    | 2496.00            | 51.84          | 59.74          | 54.86          | 59.90          | 0.000475   | 3.24     | 770.30            | 113.87                                  | 0.22         |
| North Main                              | reach 1                      | 220295                                    | 3976.00            | 51.84          | 61.77          | 55.91          | 62.01          | 0.000541   | 3.94     | 1010.02           | 122.13                                  | 0.24         |
| North Main                              | reach 1                      | 220295                                    | 5665.00            | 51.84          | 63.18          | 56.93          | 63.51          | 0.000691   | 4.79     | 1183.00           | 127.70                                  | 0.28         |
| North Main                              | reach 1                      | 220295                                    | 10632.00           | 51.84          | 65.47          | 59.41          | 65.94          | 0.001031   | 5.94     | 3060.78           | 1690.40                                 | 0.34         |
|   | n frage feature              | 11 1301 1.11                              |                    |                |                |                |                |            |          |                   |   |              |
| North Main                              | reach 1                      | 219330                                    | 2496.00            | 51. <b>58</b>  | 59.43          | 54.18          | 59.53          | 0.000288   | 2.56     | 975.65            | 142.45                                  | 0.17         |
| North Main                              | reach 1                      | 219330                                    | 3976.00            | 51.58          | 61.43          | 55.06          | 61.58          | 0.000330   | 3.13     | 1269.02           | 150.70                                  | 0.19         |
| North Main                              | reach 1                      | 219330                                    | 5685.00            | 51.58          | 62.72          | 55.94          | 62.95          | 0.000435   | 3.86     | 1466.83           | 156.02                                  | 0.22         |
| North Main                              | reach 1                      | 219330                                    | 10632.00           | 51.58          | 64.51          | 58.05          | 65.03          | 0.000845   | 5.86     | 2365.04           | 1280.41                                 | 0.32         |
|   | - 1345 - 125 1 1 1 1         |   |                    |                |                |                |                |            |          |                   |   |              |
| North Main                              | reach 1                      | 218000.                                   | 2496.00            | 51.24          | 59.08          | 53.65          | 59.17          | 0.000256   | 2.45     | 1019,47           | 145.12                                  | 0.16         |
| North Main                              | reach 1                      | 218000                                    | 3976.00            | 51.24          | 61.02          | 54.51          | 61.16          | 0.000304   | 3.04     | 1308.17           | 152.54                                  | 0.18         |
| North Main                              | reach 1                      | 218000                                    | 5665.00            | 51.24          | 62.19          | 55.36          | 62.40          | 0.000399   | 3.72     | 1858.39           | 1142.68                                 | 0,21         |
| North Main                              | reach 1                      | 218000.                                   | 10632.00           | 51.24          | 63.91          | 57.42          | 64.14          | 0.000479   | 4.43     | 4788.04           | 1977.75                                 | 0.24         |
|   |                              |   |                    |                |                |                |                |            |          |                   |   |              |
| North Main                              |                              | 216808                                    | 2496.00            | 51.24          | 58.60          | 54.06          | 58.75          | 0.000489   | 3.15     | 792.88            | 126.38                                  | 0.22         |
| North Main                              | reach 1                      | 216808                                    | 3976.00            | 51.24          | 60.44          | 55.04          | 60.67          | 0.000562   | 3.83     | 1077.89           | 469.53                                  | 0.24         |
| North Main<br>North Main                | reach 1                      | 216806                                    | 5665.00            | 51.24          | 61.68          | 56.01          | 61.87          | 0.000494   | 3.86     | 2888.80           | 2106.05                                 | 0.23         |
| MOLINI WINES                            | TOBOR 1                      | 216808                                    | 10632.00           | 51.24          | 63.57          | 58.32          | 63.66          | 0.000336   | 3.35     | 7618.85           | 2959.54                                 | 0.19         |
| North Main                              | reach f                      | 216752                                    | 2409.00            | - 51.24        | 50.57          | F4.00          | 50.70          |            |          |                   |   |              |
| North Main                              |                              |   | 2498.00<br>3976.00 | 51.24          | 58.57          | 54.06          | 58.72          | 0.000496   | 3.16     | 789.10            | 126.23                                  | 0.22         |
| North Main                              | reach 1                      | 216752                                    | 5665.00            | 51.24<br>51.24 | 60.41          | 55.04<br>56.01 | 60.64          | 0.000589   | 3.85     | 1064.58           | 439.60                                  | 0.25         |
| North Main                              | reach 1                      | 216752                                    | 10632.00           | 51.24          | 63.55          | 58.32          | 61.84<br>63.64 | 0.000514   | 3.93     | 2798.48           | 2092.45                                 | 0.24         |
|   | n na aire e                  |   | .5552.05           | V1.24          | 33.33          | 30.32          | 03.04          | 0.000342   | 3.38     | 7554.58           | 2952.00                                 | 0.20         |
| North Main                              | reach 1                      | 216000                                    | 2496.00            | 51.25          | 58.07          | 54.11          | 58.28          | 0.000704   | 3.68     | 677.40            | 440.75                                  |              |
| North Main                              | reach 1                      | 216000.                                   | 3976.00            | 51.25          | 59.83          | 55,12          | 60.13          | 0.000794   | 4.47     | 677.42<br>1007.52 | 110.75<br>515.38                        | 0.26         |
| North Main                              | reach 1                      | 216000.                                   | 5665.00            | 51.25          | 61.27          | 56.12          | 61.45          | 0.000794   | 3.92     | 3103.70           | 1901.59                                 | 0.29         |
| North Main                              | reach 1                      | 216000                                    | 10632.00           | 51.25          | 63.31          | 58.57          | 63.37          | 0.000354   | 2.98     | 7419.13           | 2404.54                                 |              |
|   |                              |   | 1                  |                |                |                | 55.57          | 5.500504   | 2.30     | .715.13           | 2404.04                                 | 0,19         |
| North Main                              | reach:1                      | 214269                                    | 2496.00            | 51.25          | 57.10          | 53.42          | 57.23          | 0.000505   | 2.91     | 857.74            | 158.12                                  | 0.22         |
| North Main                              | reach 1                      | 214269                                    | 3976.00            | 51.25          | 58.78          | 54.19          | 58.97          | 0.000545   | 3.52     | 1128.03           | 164.48                                  | 0.22         |
| North Main                              | reach f                      | 214269                                    | 5665.00            | 51.25          | 60.30          | 54.96          | 60.53          | 0.000537   | 3.91     | 1922.61           | 1099.61                                 | 0.24         |
| North Main                              | reach 1                      | 214289                                    | 10632.00           | 51.25          | 62.55          | 56.66          | 62.72          | 0.000435   | 4.01     | 4803.29           | 1401.14                                 | 0.24         |
|   | 1.00                         |   |                    |                |                |                |                |            |          | .000,20           | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | V.22         |
| North Main                              | reach 1                      | 212822                                    | 2496.00            | 51.25          | 54.59          | 53.92          | 55.39          | 0.006313   | 7.18     | 347.65            | 110.22                                  | 0.71         |
| North Main                              | reach 1                      | 212822                                    | 3976.00            | 51.25          | 56.57          | 54.86          | 57.32          | 0.003331   | 6.93     | 573.40            | 117,72                                  | 0.55         |
| North Main                              | reach 1.                     | 212822                                    | 5665.00            | 51.25          | 58.10          | 55.82          | 58.97          | 0.002866   | 7.48     | 757.74            | 123.52                                  | 0.53         |
| North Main                              | reach 1                      | 212822                                    | 10632.00           | 51.25          | 60.22          | 58.08          | 61.42          | 0.003196   | 9.24     | 1643.17           | 672.49                                  | 0.58         |
|   | 1, 1, 1, 1                   |   |                    | -              |                |                |                |            | 5.24     | .570,11           | 372.48                                  | 0.56         |
| North Main                              | reach t                      | 212818                                    | Inline Weir        |                |                |                |                |            |          |                   |   |              |
|   | 11 (12)                      |   |                    |                |                |                |                |            |          |                   |   |              |
| North Main                              | reach 1                      | 212769                                    | 2496.00            | 44.29          | 54.58          | 47.61          | 54.69          | 0.000233   | 2.61     | 956.92            | 113.54                                  | 0.16         |
| North Main                              | reach 1                      | 212769                                    | 3976.00            | 44.29          | 56.56          | 48.71          | 56.74          | 0.000313   | 3.34     | 1189.24           | 120.91                                  | 0.19         |
| North Main                              | reach 1                      | 212769                                    | 5665.00            | 44.29          | 58.09          | 49.79          | 58.29          | 0.000340   | 3.72     | 2080.80           | 550.50                                  | 0.19         |
| North Main                              | reach 1                      | 212769                                    | 10632.00           | 44.29          | 60.22          | 52.37          | 60.50          |            | 4.85     | 3440.31           | 706.32                                  | 0.24         |
|   | -                            |   | 1                  |                |                | 52.31          | 55.50          | 5.505134   | 7.33     | 5440,31           | 100,32                                  | 0.24         |

| River                                   | Plan P 50% D<br>Reach                    | River Sta        | Q Total             | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area           | Top Width                             | Froude # Chi  |
|---|--|------------------|---------------------|----------------|----------------|----------------|----------------|------------|--------------|---------------------|---------------------------------------|---------------|
|   |  | - 1980 J. 53     | (cfs)               | (m)            | (ft)           | (ft)           | (ft)           | (ft/ft)    | (ft/s)       | (sq ft)             | (ft)                                  | FIOGUS # CIII |
| North Main                              | reach 1                                  | 211780           | 2496.00             | 43.36          | 54.45          | 46.20          | 54.51          | 0.000119   | 1.96         | 1274.81             | 142.18                                | 0.12          |
| North Main                              | reach 1                                  | 211780           | 3976.00             | 43.36          | 56.46          | 47.20          | 56.52          | 0.000116   | 2.12         | 3257.13             | 1449.07                               | 0.12          |
| North Main                              | reach 1                                  | 211780           | 5665.00             | 43.36          | 58.02          | 48.17          | 58.05          | 0.000103   | 1.94         | 6008.04             | 2089.99                               | 0.11          |
| North Main                              | reach 1                                  | 211780           | 10632.00            | 43.36          | 60.19          | 50.51          | 60.22          | 0.000099   | 1.92         | 11541.80            | 3122.10                               | 0.11          |
| 1 1 25 to 1 4 7 1 8                     |  |                  | ļ <u> </u>          |                |                |                |                |            |              |                     |                                       |               |
| North Main                              | reach 1                                  | 210419           | 2496.00             | 43.36          | 54.21          | 46.65          | 54.30          | 0.000197   | 2.43         | 1028.80             | 120.70                                | 0.15          |
| North Main                              | reach 1                                  | 210419           | 3976.00             | 43.36          | 56.31          | 47.80          | 56.36          | 0.000132   | 2.19         | 4199.25             | 2511.21                               | 0.12          |
| North Main<br>North Main                | reach 1                                  | 210419<br>210419 | 5665.00<br>10632.00 | 43.36          | 57.92          | 48.91          | 57.94          | 0.000084   | 1.34         | 8861.06             | 3443.51                               | 0.09          |
| NO UT (Mail)                            | reaux r                                  | 210415           | 10032.00            | 43.36          | 60.13          | 51,54          | 60,14          | 0,000050   | 1.16         | 18098.20            | 4581.51                               | 0.07          |
| North Main                              | reach 1                                  | 209041           | 2496.00             | 43.31          | 53.94          | 48,47          | 54.03          | 0.000193   | 2.41         | 1034.72             | 120.35                                | 0.14          |
| North Main                              | reach 1                                  | 209041           | 3976.00             | 43.31          | 55.96          | 47.58          | 56.11          | 0.000165   | 3.09         | 1287.23             | 129.04                                | 0.17          |
| North Main                              | reach 1                                  | 209041           | 5665.00             | 43.31          | 57.54          | 48.65          | 57.73          | 0.000304   | 3.55         | 2327.96             | 1290.67                               | 0.19          |
| North Main                              | reach 1                                  | 209041           | 10632.00            | 43.31          | 59,91          | 51.22          | 60.02          | 0.000239   | 3.43         | 7691.68             | 4465.29                               | 0.17          |
|   |  | ett.             |                     |                |                |                |                |            |              | -                   |                                       |               |
| North Main                              | reach 1                                  | 208000.          | 2496.00             | 43.31          | 53.73          | 46.42          | 53.82          | 0.000203   | 2.47         | 1008.91             | 117.16                                | 0.15          |
| North Main                              | reach 1                                  | 208000.          | 3976.00             | 43.31          | 55.67          | 47.52          | 55.83          | 0.000281   | 3.20         | 1243.92             | 124.74                                | 0.16          |
| North Main                              | reach 1                                  | 208000.          | 5665.00             | 43.31          | 57.14          | 48.59          | 57.37          | 0.000392   | 3.90         | 1668.28             | 688.31                                | 0.21          |
| North Main                              | reach 1                                  | 208000.          | 10632.00            | 43.31          | 59.71          | 51.17          | 59.79          | 0.000312   | 2.86         | 8848.89             | 5310.74                               | 0.18          |
| Newson and the                          | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |                  | 0.000.00            |                |                | - 10.10        |                |            |              |                     |                                       |               |
| North Main<br>North Main                | reach 1                                  | 207786           | 2496.00<br>3976.00  | 43.31          | 53.70          | 46.46          | 53.79          | 0.000204   | 2.42         | 1029.70             | 124.78                                | 0.15          |
| North Main                              | reach 1                                  | 207786           | 5665.00             | 43.31<br>43.31 | 55.62<br>57.09 | 47.57<br>48.63 | 55.77<br>57.28 | 0.000280   | 3.11<br>3.58 | 1279.33             | 135.09                                | 0.18          |
| North Main                              | reach 1                                  | 207786           | 10632.00            | 43.31          | 59.69          | 51.18          | 57.28<br>59.73 | 0.000353   | 2.27         | 2331.79<br>11652.28 | 1737.30<br>5236.79                    | 0.20          |
| 14.45.45.24                             |  | 207760           | 70032.00            | 73.31          | 39.09          | 31.10          | 38.13          | 0.000105   | 4.21         | 11002.28            | 0230.79                               | 0.14          |
| North Main                              | reach 1                                  | 207730           | 2496.00             | 43.31          | 53.68          | 46.46          | 53.77          | 0.000205   | 2.43         | 1028.22             | 124.72                                | 0.15          |
| North Main                              | reach 1                                  | 207730           | 3976.00             | 43.31          | 55.60          | 47.57          | 55.75          | 0.000282   | 3.11         | 1277.13             | 135.01                                | 0,16          |
| North Main                              | reach 1                                  | 207730           | 5665.00             | 43.31          | 57.08          | 48.63          | 57.27          | 0.000355   | 3.59         | 2309.23             | 1727.38                               | 0.20          |
| North Main                              | reach 1                                  | 207730           | 10632.00            | 43.31          | 59.68          | 51.18          | 59.72          | 0.000190   | 2.28         | 11593.18            | 5223.45                               | 0.14          |
|   |  | AT THE SEC       |                     |                |                |                |                |            |              |                     |                                       |               |
| North Main                              | reach 1                                  | 206000.          | 2496.00             | 43.32          | 53,30          | 46.34          | 53,40          | 0.000218   | 2.51         | 992.70              | 118.50                                | 0.15          |
| North Main                              | reach 1                                  | 206000.          | 3976.00             | 43.32          | 55.47          | 47.42          | 55.49          | 0.000072   | 1.61         | 7081.65             | 3946.52                               | 0.09          |
| North Main                              | reach 1                                  | 208000.          | 5665.00             | 43.32          | 57.08          | 48.45          | 57.09          | 0.000030   | 1.00         | 13478.59            | 3985.96                               | 0.06          |
| North Main                              | réach 1                                  | 208000           | 10632.00            | 43.32          | 59.62          | 50.95          | 59.63          | 0.000019   | 0.83         | 24035.16            | 4359.47                               | D.05          |
| North Main                              | reach 1                                  | 2004274          | 0405.00             | 40.47          | 50.00          | 40.04          | F2 04          | D DOGGE    |              |                     |                                       |               |
| North Main                              | reach 1                                  | 204471           | 2496.00<br>3976.00  | 43.17<br>43.17 | 52.92<br>55.10 | 46.31<br>47.42 | 53.04<br>55.27 | 0.000261   | 2.69         | 927.28              | 114.84                                | 0.17          |
| North Main                              | reach f                                  | 204471           | 5665.00             | 43.17          | 56.69          | 48.50          | 56.94          | 0.000324   | 3,35<br>4.04 | 1186.38<br>1491.58  | 123.44<br>388.90                      | 0.19          |
| North Main                              | reach 1                                  | 204471           | 10632.00            | 43.17          | 59.22          | 51.07          | 59.51          | 0.000498   | 4.80         | 3662.74             | 1347.14                               | 0.27          |
| 1.00                                    |  |                  | 10002.00            | 40.11          | - 00.22        | 01.07          | 00.01          | 0.00004    | 7.00         | 3002.74             | 1547.14                               | 0.21          |
| North Main                              | reach i                                  | 203192           | 2496.00             | 43.15          | 52.70          | 45.78          | 52.77          | 0.000163   | 2.14         | 1168.31             | 145.67                                | 0.13          |
| North Main                              | reach 1                                  | 203192           | 3976.00             | 43.15          | 54.81          | 46.71          | 54.92          | 0.000206   | 2.67         | 1488.65             | 157.54                                | 0.15          |
| North Main                              | reach 1                                  | 203192           | 5665.00             | 43.15          | 56.29          | 47.64          | 56.45          | 0,000265   | 3.23         | 1833.33             | 212.62                                | 0.18          |
| North Main                              | reach 1                                  | 203192           | 10632.00            | 43.15          | 58.48          | 49.84          | 58.82          | 0.000502   | 4.83         | 2727.38             | 720.38                                | 0.25          |
| ndstore a                               |  |                  |                     |                |                |                |                |            |              |                     |                                       |               |
| North Main                              | reach 1                                  | 202000.          | 2496.00             | 42.72          | 52.47          | 45.52          | 52.56          | 0.000188   | 2.34         | 1065.38             | 126.94                                | 0.14          |
| North Main                              | reach 1                                  | 202000.          | 3976.00             | 42.72          | 54.51          | 46.50          | 54.65          | 0.000247   | 2.99         | 1331.86             | 134.54                                | 0.17          |
| North Main                              | reach 1                                  | 202000.          | 5665.00             | 42.72          | 55.90          | 47.47          | 56.10          | 0.000326   | 3.64         | 1847.40             |                                       | 0.15          |
| North Main                              | reach 1                                  | 202000.          | 10632.00            | 42.72          | 57.92          | 49.83          | 58.17          | 0.000530   | 4.47         | 3875.41             | 1287.52                               | 0.25          |
| North Main                              | reach 1                                  | 201961           | 2496.00             | 42.72          | 52.47          | 45.53          | 52.55          | 0.000184   | 2.29         | 1089.34             | 132.91                                | 0.14          |
| North Main                              | reach 1                                  | 201961           | 3976.00             | 42.72          | 54.50          | 46.51          | 54.63          | 0.000239   | 2.90         | 1369.06             | 143.57                                | 0.16          |
| North Main                              | reach 1                                  | 201961           | 5665.00             | 42.72          | 55.88          | 47.47          | 56.07          | 0.000314   | 3.54         | 1891.69             | 794.95                                |               |
| North Main                              | reach 1                                  | 201961           | 10632.00            | 42.72          | 57.90          | 49.80          | 58.14          | 0.000455   | 4.39         | 4234.58             |                                       |               |
| *****                                   | te van de de                             |                  |                     |                |                |                |                |            |              | L                   |                                       |               |
| North Main                              | reach 1                                  | 201917           | 2496.00             | 42.72          | 52.46          | 45.53          | 52.54          | 0.000185   | 2.29         | 1088.23             |                                       | 0.14          |
| North Main                              | reach 1                                  | 201917           | 3976.00             | 42.72          | 54.49          | 46.51          | 54.62          | 0.000240   | 2.91         | 1367.50             |                                       |               |
| North Mein                              | reach 1                                  | 201917           | 5665.00             | 42.72          | 55.87          | 47.48          | 56.06          | 0.000316   |              | 1880.12             |                                       | 0.19          |
| North Main                              | reach 1                                  | 201917           | 10632.00            | 42.72          | 57.88          | 49.80          | 58.12          | 0.000463   | 4.43         | 4188.49             | 1541.85                               | 0.23          |
| Morth Male                              | coach 4                                  | 204222           | 2400.00             | 40.50          | 50.05          | 15.01          | F0 /0          | 0.000400   |              | 1000.00             | 1075                                  | 1             |
| North Main<br>North Main                | reach 1                                  | 201322           | 2496.00<br>3976.00  | 42.52<br>42.52 | 52.35<br>54.34 | 45.31<br>46.29 | 52.43<br>54.48 | 0.000180   | 2.31<br>2.96 | 1082.67<br>1344.10  |                                       |               |
| North Main                              | reach 1                                  | 201322           | 5665.00             | 42.52          | 55.65          | 47.25          | 55.86          |            | 3.72         | 1522.44             | +                                     |               |
| North Main                              | reach 1                                  | 201322           | 10632.00            | 42.52          | 57.16          | 49.61          | 57.74          |            |              | 1736,15             |                                       |               |
|   |  |                  |                     |                | 30             |                |                |            | :' <b>-</b>  |                     | 1                                     | 1             |
| North Main                              | reach 1                                  | 200676           | 2496.00             | 42.52          | 52.20          | 45.68          | 52.30          | 0.000251   | 2,54         | 982.97              | 130.69                                | 0.10          |
| North Main                              | reach 1                                  | 200676           | 3976.00             | 42,52          | 54.16          | 46.77          | 54.31          | 0.000309   |              |                     |                                       |               |
| North Main                              | reach 1                                  | 200676           | 5665.00             | 42.52          | 55.51          | 47.83          | 55.65          |            |              | 2761.61             | 1020.07                               | <del></del>   |
| North Main                              | reach 1                                  | 200676           | 10632.00            | 42.52          | 57.08          | 50.32          | 57.21          | 0.000672   | 3.50         | 4797.36             | 1619.27                               | 0.20          |
| -11-11-11-11-11-11-11-11-11-11-11-11-11 |  |                  |                     |                |                |                |                |            |              |                     |                                       |               |
| North Main                              | reach 1                                  | 200030           | 2496.00             | 42.52          | 52.04          | 45.42          | 52.14          | 0.000228   | 2.52         | 989,10              |                                       | <del>+</del>  |
| North Main                              | reach 1                                  | 200030           | 3976.00             | 42.52          | 53.99          | 46.45          | 54.13          |            |              | 1798.87             | 765.51                                | +             |
| North Main                              | reach 1                                  | 200030           | 5665.00             | 42.52          | 55.48          | 47.46          | 55.51          | 0.000112   | ·            |                     |                                       |               |
| North Main                              | reach 1                                  | 200030           | 10632.00            | 42.52          | 57.07          | 49.89          | 57.08          | 0.000063   | 1.69         | 18701.31            | 6423.69                               | 0.09          |
| North Mair                              | reach 4                                  | 10004            | 2496.00             | /0 F0          | F0.00          | /E /A          | E2 42          | 0.00000    | 2.50         | 007.45              | 104.00                                |               |
| North Main<br>North Main                | reach 1                                  | 199964<br>199964 | 2496.00<br>3976.00  | 42.52<br>42.52 | 52.03<br>53.97 | 45.42<br>46.45 | 52.13<br>54.11 | 0.000229   | 2.53<br>3.03 | 987.18<br>1784.29   | <del></del>                           |               |
| North Main                              | reach 1                                  | 199964           | 5665.00             | 42.52          |                | 46.45          |                |            | <del></del>  | 8607.03             |                                       |               |
| North Main                              | reach 1                                  | 199964           | 10632.00            | 42.52          |                | 49.89          |                |            | <del></del>  |                     | · · · · · · · · · · · · · · · · · · · |               |

| River  | Reach              | River Sta        | Q Total             | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev  | E.G. Slope  | Vel Chni   | Flow Area   | Top Width         | Froude # Chi                                     |
|--|--------------------|------------------|---------------------|----------------|----------------|----------------|--|-------------|--|-------------|-------------------|--|
|  |                    | ļ                | (cfs)               | (ft)           | (ft)           | (ft)           | (ft)   | (ft/ft)     | (ft/s)   | (sq ft)     | (ft)              | 2,15 .5.   |
|  |                    |                  |                     |                |                |                |  |             |  |             |                   |  |
| North Main   | reach 1            | 198000.          | 2496.00             | 42.52          | 51.58          | 45.27          | 51.67  | 0.000230    | 2.50   | 1097.98     | 435.16            | 0.16   |
| North Main   | reach 1            | 198000,          | 3976.00             | 42.52          | 53.78          | 46.26          | 53.80  | 0.000085    | 1.72   | 6441.07     | 3980.49           | 0.10   |
| North Main<br>North Main   | reach 1            | 198000.          | 5865.00<br>10632.00 | 42.52<br>42.52 | 55.37          | 47.22          | 55.38  | 0.000037    | 1.22   | 14598.69    | 7520.33           | 0.07   |
| NUI MANI   | I Date 1           | 198000.          | 10032.00            | 42.52          | 56.99          | 49.54          | 57.00  | 0.000026    | 1.01   | 27084.35    | 7796.21           | 0.06   |
| North Main   | reach 1            | 197361           | 2496.00             | 42.52          | 51.42          | 45.31          | 51.52  | 0.000253    | 2.55   | 979.09      | 120.40            | 0.40   |
| North Main   | reach 1            | 197381           | 3976.00             | 42.52          | 53.64          | 46.29          | 53.72  | 0.000192    | 2.52   | 3595.04     | 129.40<br>3411.51 | 0.16   |
| North Main   | reach 1            | 197381           | 5665.00             | 42.52          | 55.34          | 47.26          | 55.36  | 0.000192    | 1.57   | 10158.39    | 5196.18           | 0.15<br>0.09                                     |
| North Main   | reach 1            | 197381           | 10632.00            | 42.52          | 56.97          | 49.60          | 56.98  | 0.000050    | 1.48   | 21152.03    | 8828.98           | 0.09   |
| - 434-15 6.  | Year Salata Salata |                  |                     |                |                |                |  | 2.00000     |  | 21102.00    | 502.0.50          | 0,00   |
| North Main   | reach 1            | 197333           | 2496.00             | 42.52          | 51.41          | 45.31          | 51.51  | 0.000254    | 2.55   | 977.44      | 129,34            | 0.16   |
| North Main   | reach 4            | 197333           | 3976.00             | 42.52          | 53,59          | 46.30          | 53.70  | 0.000248    | 2.86   | 2366.31     | 2116.55           | 0.17   |
| North Main   | reach 1            | 197333           | 5665.00             | 42.52          | 55.32          | 47.27          | 55.35  | 0.000091    | 1.88   | 8623.65     | 5156.93           | 0.10   |
| North Main   | reach 1            | 197333           | 10632.00            | 42.52          | 56.96          | 49.60          | 56.98  | 0.000062    | 1.66   | 19645.46    | 8813.21           | 0.09   |
|  |                    |                  |                     |                |                |                |  |             |  |             |                   |  |
| North Main   | reach 1            | 196000.          | 2496,00             | 42.53          | 51.02          | 45.38          | 51.14  | 0.000311    | 2.76   | 905.71      | 124.40            | 0.18   |
| North Main   | reach 1            | 196000.          | 3976.00             | 42.53          | 53.13          | 48.35          | 53.30  | 0.000356    | 3.34   | 1257.11     | 234.51            | 0.20   |
| North Mein   | reach 1            | 196000.          | 5665.00             | 42.53          | 55.08          | 47.33          | 55.1 <b>6</b>                                    | 0.000238    | 2.98   | 4622,04     | 3687.46           | 0.17   |
| North Main   | reach f            | 196000.          | 10632.00            | 42.53          | 56.83          | 49.71          | 56.86  | 0.000146    | 2.10   | 12424.50    | 5074.20           | 0.13   |
| - 4-4  |                    | 40.4555          | 0.55                |                |                |                |  |             |  |             |                   |  |
| North Main   | reach 1            | 194500           | 2496.00             | 42.53          | 50.40          | 45.52          | 50.56  | 0.000477    | 3.24   | 770.23      | 114.29            | 0.22   |
| North Main<br>North Main   | reach 1            | 194500           | 3976.00<br>5665.00  | 42.53<br>42.53 | 52.40          | 48.57          | 52.64  | 0.000547    | 3.95   | 1007.73     | 122.68            | 0.24   |
| North Main   | reach 1            | 194500           | 10632,00            | 42.53<br>42.53 | 54.28<br>56.37 | 47.59<br>50.08 | 54.80<br>56.50                                   | 0.000595    | 4.54   | 1303.36     | 500.76            | 0.26   |
| THE REPORT OF THE PERSON NAMED IN  | remort f           | 10000            | 10032,00            | +2.33          | 30.37          | 30,06          | 30.30  | 0.000404    | 3.87   | 7574.98     | 4419.28           | 0.21   |
| North Main   | reach 1            | 194434           | 2496.00             | 42.53          | 50.36          | 45.52          | 50.53  | 0.000484    | 3.26   | 766.39      | 114.15            | 0.22   |
| North Main   | reach 1            | 194434           | 3976.00             | 42.53          | 52.36          | 46.57          | 52.61  | 0.000554    | 3.96   | 1002.95     | 122.52            | 0.22   |
| North Main   | reach 1            | 194434           | 5665.00             | 42.53          | 54.24          | 47.59          | 54.56  | 0.000604    | 4.56   | 1283.83     | 433.12            | 0.26   |
| North Main   | reach 1            | 194434           | 10632.00            | 42.53          | 56.33          | 50.07          | 56.48  | 0.000421    | 3.94   | 7419.69     | 4414.78           | 0.22   |
| 1 1 1 1  | als of the         |                  | -                   |                |                |                |  |             |  |             |                   |  |
| North Main   | reach 1            | 194000.          | 2496.00             | 42.44          | 50.16          | 45.40          | 50.32  | 0.000482    | 3.22   | 776.12      | 117.64            | 0.22   |
| North Main 🐃   | reach 1            | 194000.          | 3976,00             | 42.44          | 52.13          | 46.42          | 52.37  | 0.000550    | 3.91   | 1016.38     | 126.21            | 0.24   |
| North Main   | reach 1            | 194000.          | 5665.00             | 42.44          | 53.99          | 47.44          | 54.30  | 0.000592    | 4.48   | 1435.08     | 2482.27           | 0.26   |
| North Main   | reach 1            | 194000.          | 10632.00            | 42.44          | 56.25          | 49.86          | 56.30  | 0.000261    | 2.67   | 9983,62     | 4464.07           | 0.17   |
| 10 to  |                    |                  |                     |                |                |                |  |             |  |             |                   |  |
| North Main   | reach 1            | 192000           | 2496.00             | 42.24          | 48.94          | 45.08          | 49.15  | 0.000718    | 3.66   | 681.72      | 114.93            | 0.26   |
| North Main   | reach 1            | 192000           | 3976.00             | 42.24          | 50.74          | 46.09          | 51.04  | 0.000804    | 4.45   | 894.26      | 121.95            | 0.29   |
| North Main   | reach 1            | 192000           | 5665.00             | 42.24          | 52.51          | 47.07          | 52.90  | <del></del> | 5,04   | 1197.09     | 357.87            | 0.30   |
| North Main   | reach 1            | 192000           | 10632.00            | 42.24          | 55. <b>68</b>  | 49.45          | 55.75  | 0.000290    | 2.98   | 7410.87     | 2439.52           | 0.18   |
| No. of Asala   | 2000               | 400700           | 2402.22             | 40.04          |                |                | 45.75  |             |  |             |                   |  |
| North Main   | reach f            | 190533           | 2496.00             | 42.24          | 45.91          | 45.14          | 46.76  | 0.006038    | 7.40   | 337.51      | 98.18             | 0.70   |
| North Main   | reach 1            | 190533           | 3976.00             | 42.24          | 48.23          | 46.19          | 48.97  | 0.002930    | 6.92   | 574.48      | 106.30            | 0.52   |
| North Main   | reach 1            | 190533           | 5665.00<br>10632.00 | 42.24<br>42.24 | 50.12          | 47.19<br>49.67 | 50.93  | 0.002330    | 7.25<br>9.04                                       | 781.76      | 112.93            | 0.49   |
| North Main   | reach 1            | 190000           | 10032.00            | 42.24          | 53.42          | 49.07          | 54.69  | 0.002497    | 9.04   | 1176.69     | 4681.43           | 0.52   |
| North Main   | reach 1            | 190528           | Inline Weir         |                |                |                |  |             |  |             |                   |  |
| THOU GIT ALL AND A STATE OF THE ADDRESS OF THE ADDR | -3                 | 100000           |                     |                |                | -              |  |             |  |             | <u> </u>          |  |
| North Main   | reach 1            | 190513           | 2496.00             | 38.26          | 45.90          | 41.26          | 46.09  | 0.000555    | 3.48   | 717.37      | 106.14            | 0.24   |
| North Main   | reach 1            | 190513           | 3976.00             | 38.26          | 48.22          | 42.33          | 48.48  |             | 4.09   |             | 113.87            | 0.25   |
| North Main   | reach 1            | 190513           | 5665.00             | 38.26          | 50.11          | 43.39          | 50.48  | -           | 4.75   | 1193.16     | 120.05            | 0.27   |
| North Main   | reach 1            | 190513           | 10632.00            | 38.28          | 53.41          | 45.92          | 54.09  | 0.000972    | 6.60   | 1611.03     | 4641.72           | 0.34   |
|  |                    | <u> </u>         |                     |                |                |                |  |             |  |             |                   | ļ  |
| North Main   | reach 1            | 190000           | 2496.00             | <del></del>    | 45.64          | 41.12          | 45.81  | +           | 3.28   |             | 118.79            | 0.23   |
| North Main   | reach 1            | 190000           | 3976.00             | 38.26          |                | 42.13          |  |             | 3.79   |             |                   | 0.23   |
| North Main   | reach 1            | 190000           | 5665.00             | 38.26          | 49,84          | 43.13          | <del></del>                                      |             | 4.37   |             | +                 |  |
| North Main   | reach:1            | 190000           | 10632.00            | 38.26          | 53.00          | 45.51          | 53.57  | 0.000907    | 6.07   | 1751.28     | 5306,33           | 0.33   |
| Marie Con-   |                    | 100000           | 2400 00             | ^^-            | <del></del>    |                |  |             |  |             | 1                 | <del></del>                                      |
| North Main   | reach 1            | 189032           | 2496.00             | 38.26          | 45.02          | 41.16          | <del></del>                                      |             |  |             | <del></del>       |  |
| North Main   | reach:1            | 189032           | 3976.00             | 38.26          | 47.41          | 42.16          |  |             |  | <del></del> | <del></del>       |  |
| North Main<br>North Main   | reach 1            | 189032<br>189032 | 5685.00<br>10632.00 | 38.26<br>38.26 | 49.26<br>52.00 | 43.14<br>45.51 | •  |             | 4.46<br>6.25                                       |             |                   |  |
| INCHES MIGHTS  | romal (            | 189032           | 10032.00            | 38.26          | 52.00          | 45.51          | 52.61  | 0.001104    | 0.25   | 1701.56     | +020.45           | 0.36   |
| North Main   | reach 1            | 188975           | 2496.00             | 38.26          | 44.98          | 41.15          | 45.18  | 0.000725    | 3.59   | 694.59      | 122.26            | 0.27   |
| North Main   | reach 1            | 188975           | 3976.00             |                |                | 42.16          | +  |             | 3.96   | -           |                   |  |
| North Main   | reach 1            | 188975           | 5665.00             |                |                | 43.14          |  |             | 4.49   |             |                   |  |
| North Main   | reach 1            | 188975           | 10632.00            |                |                | 45.51          |  |             | 6.30   | +           | 4819.29           | <del>                                     </del> |
|  |                    | T                | T                   |                | <del></del>    | 1              | 1  | 1           | 1  | 1           | 1                 | 1  |
| North Main   | reach 1            | 188000           | 1974.00             | 37.63          | 44.45          | 40.80          | 44.56  | 0.000498    | 2.67   | 739.65      | 151.69            | 0.21   |
| North Main   | reach 1            | 188000           | 3035.00             |                |                | 41.54          |  | +           |  | <del></del> |                   | <del></del>                                      |
| North Main   | reach 1            | 188000           | 4140.00             |                | ····           | 42.16          |  | <del></del> |  |             | <del>}</del>      |  |
| North Main   | reach-1            | 188000           | 9192.00             | 37.63          | 51.30          | 44.42          | 51.66  | 0.000603    | 4.80   | 1915.19     | 5414.86           | 0.26   |
|  |                    |                  |                     |                |                |                |  |             |  | 1           |                   | L  |
| North Main   | reach f            | 187869           | 1974.00             |                |                | <del></del>    |  | <del></del> |  | <del></del> | <del>,</del>      |  |
| North Main   | reach 1            | 187869           | 3035.00             | <del></del>    | +              |                | <del>                                     </del> |             | <del>,                                      </del> | +           |                   |  |
| North Main   | reach 1            | 187869           | 4140.00             | +              | ·              | <del></del>    | +  |             |  | <del></del> |                   |  |
| North Main   | reach 1            | 187869           | 9192.00             | 37.63          | 50.88          | 44.78          | 51.53  | 0.001079    | 6.45   | 1425.03     | 137,48            | 0.35   |
|  |                    |                  | ļ                   |                |                |                | <u> </u>   | <del></del> | <u> </u>   | 1           | 1                 | <del> </del>                                     |
| North Main   | reach 1            | 187694           | 1974.00             | 34.85          | 44.31          | 38,18          | 44.40  | 0.000235    | 2.43   | 811.04      | 107.38            | 0.16   |

North Main reach 1 0.16 0.17 187694 4140.00 34.85 48.78 39.82 48.93 0.000246 3.12 1328.31 123.98

| NOIDI MAJI   | 100011   | 10/084             | 4140,00   | 34.00 | 40.70 | 39.62 | 46.93 | 0.000246 | 3.12         | 1328,31  | 123.98  | 0.17         |
|--|--|--------------------|-----------|-------|-------|-------|-------|----------|--------------|----------|---------|--------------|
| North Main   | reach 1  | 187694             | 9192.00   | 34.85 | 50.82 | 42.68 | 51.34 | 0.000727 | 5.79         | 1588.03  | 131.58  | 0.29         |
| A. Alleria   |  | 444411.00          |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 188000             | 1974.00   | 34.04 | 44.04 | 36.81 | 44.10 | 0.000132 | 1.93         | 1022.40  | 125.69  | 0.12         |
| North Main   | reach 1  | 186000             | 3035.00   | 34.04 | 45.64 | 37.62 | 46.72 | 0.000135 | 2.23         | 1363.18  | 136.77  | 0.12         |
| North Main   | reach 1  | 186000             | 4140.00   | 34.04 | 48.56 | 38.36 | 48.61 | 0.000128 | 1.95         | 4617.70  | 3994.16 | 0.12         |
| North Main   | reach 1  | 188000             | 9192.00   | 34.04 | 50.93 | 41.06 | 50.94 | 0.000057 | 1.44         | 14601.44 | 4155.83 | 0.08         |
| Jakes Care   |  |                    | 3132.00   | 34.04 | 50.33 | 71.00 | 30.94 | 0.000037 | 1,44         | 14001.44 | 4135.03 | 0.00         |
| North Main   | reach f  | 404000             | 4074.00   | 24.00 | 40.70 |       | 40.05 | 0.000400 |              |          |         |              |
| The second second second second  | The second secon | 184000.            | 1974.00   | 34.09 | 43,79 | 36.53 | 43.85 | 0.000126 | 1.91         | 1035.28  | 124.93  | 0.12         |
| North Main   | reach 1  | 184000.            | 3035.00   | 34.09 | 46.38 | 37.32 | 46.46 | 0.000130 | 2.21         | 1370.98  | 133.88  | 0.12         |
| North Main   | reach 1  | 184000.            | 4140.00   | 34.09 | 48.23 | 38.04 | 48.33 | 0.000154 | 2.55         | 1625.14  | 158.78  | 0.13         |
| North Main   | reach 1  | 184000.            | 9192.00   | 34.09 | 50.72 | 40.68 | 50.77 | 0.000146 | 2.33         | 9767.71  | 4099.29 | 0.13         |
|  | TENERS S   | <b>新教中的</b>        |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 182000.            | 1974.00   | 33.49 | 43.54 | 35.97 | 43.60 | 0.000119 | 1.87         | 1054.40  | 124.12  | 0.11         |
| North Main   | reach 1  | 182000.            | 3035.00   | 33,49 | 46.12 | 36.78 | 46.20 | 0.000125 | 2.19         | 1387.44  | 133.82  | 0.12         |
| North Main   | reach 1  | 182000.            | 4140.00   | 33.49 | 47.89 | 37.51 | 47.99 | 0.000178 | 2.53         | 1635.98  | 165.55  | 0.14         |
| North Main   | reach 1  | 182000.            | 9192.00   | 33.49 | 50.56 | 40.20 | 50.57 | 0.000065 | 1.57         | 13830.96 | 4124.47 | 0.09         |
|  |  | Withham The        |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 180000.            | 1974.00   | 33.44 | 43.29 | 35.98 | 43.35 | 0.000132 | 1,95         | 1012.90  | 121.55  | 0,12         |
| North Main   | reach 1  | 180000.            | 3035.00   | 33.44 | 45.86 | 36.80 | 45.94 | 0.000138 | 2.27         | 1337.52  | 131.27  | 0.13         |
| North Main   | reach 1  | 180000             | 4140.00   | 33.44 | 47.54 | 37.54 | 47.65 | 0.000163 | 2.65         | 1564.01  | 137.64  | 0.14         |
| North Main   | reach 1  | 180000.            | 9192.00   | 33.44 |       | 40.23 | 50.38 |          |              |          |         | 0.13         |
| PECAGI IMARI   | Deart I  | TOWARD.            | 9192.00   | 33.44 | 50.34 | 40.23 | 50.36 | 0.000136 | 2.27         | 10108.37 | 4109.54 | U.13         |
|  | 2 10 10 RESERVE TO 15 15 15 15 15 15 15 15 15 15 15 15 15  |                    |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 178120             | 1974.00   | 33.43 | 42.92 | 36.52 | 43.01 | 0.000243 | 2.44         | 809,03   | 110.95  | 0.16         |
| North Main   | reach 1  | 178120             | 3035.00   | 33.43 | 45.48 | 37.48 | 45.60 | 0.000235 | 2.73         | 1110.88  | 124.70  | 0.16         |
| North Main   | reach 1  | 178120             | 4140.00   | 33.43 | 47.10 | 38.34 | 47.26 | 0.000270 | 3.14         | 1319.95  | 133.40  |              |
| North Main   | reach 1  | 178120             | 9192.00   | 33.43 | 49.99 | 41.37 | 50.07 | 0.000214 | 3.10         | 8115.89  | 4097.10 | 0.16         |
|  |  | le Children (1)    |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach f  | 178059             | 1974.00   | 33.43 | 42.91 | 36.52 | 43.01 | 0.000244 | 2.44         | 808.02   | 110.90  | 0.16         |
| North Main   | reach 1  | 178059             | 3035.00   | 33.43 | 45.48 | 37.48 | 45.59 | 0.000235 | 2.73         | 1109.83  | 124.66  | 0.16         |
| North Main   | reach 1  | 178059             | 4140.00   | 33.43 | 47.09 | 38.34 | 47.25 | 0.000270 | 3.14         | 1318.64  | 133.34  | D.18         |
| North Main   | reach 1  | 178059             | 9192.00   | 33.43 | 49.97 | 41.37 | 50.06 | 0.000217 | 3.12         | 8057.24  | 4096.46 | 0.16         |
| 11 33 37 34  | \$40.640.5 E   | 5.437              |           |       |       |       |       | 0.000    |              | 0007.2   |         |              |
| North Main   | reach 1  | 178000.            | 1974.00   | 33.28 | 42.92 | 36.03 | 42.99 | 0.000164 | 2.12         | 932.98   | 117.05  | 0.13         |
| North Main   | reach 1  | 178000.            | 3035.00   | 33.28 | 45.48 | 36.87 | 45.57 | 0.000167 | 2.44         | 1246.02  | 127.21  | 0.14         |
| North Main   | reach 1  | 178000.            | 4140.00   | 33.28 |       |       |       | 0.000107 |              |          |         |              |
|  |  |                    |           |       | 47.10 | 37.65 | 47.23 |          | 2.84         | 1457.21  | 133.63  | 0.15         |
| North Main   | reach 1  | 178000.            | 9192.00   | 33.28 | 50.00 | 40.43 | 50.03 | 0.000144 | 2.18         | 10351.96 | 4159.74 | 0.13         |
|  | 1 Appendig 42 Control of the   | 14 E4 PA 184 PA 18 |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 176000             | 1974.00   | 33.44 | 42.56 | 36.08 | 42.64 | 0.000187 | 2.19         | 902.71   | 119.65  | 0.14         |
| North Main   | reach 1  | 178000             | 3035.00   | 33.44 | 45.13 | 36.92 | 45.22 | 0.000182 | 2.48         | 1224.54  | 131.14  | 0.14         |
| North Main   | reach 1  | 176000.            | 4140.00   | 33.44 | 46.68 | 37.68 | 46.81 | 0.000215 | 2.89         | 1433.77  | 138.09  | 0.16         |
| North Main   | reach 1  | 176000.            | 9192.00   | 33.44 | 49.70 | 40.46 | 49.74 | 0.000145 | 2.31         | 10300,54 | 5018.62 | 0.13         |
| Luckersky.   | 4/11/2018  | State of the       |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 174282             | 1974.00   | 32.56 | 42.31 | 35.26 | 42.36 | 0.000131 | 1.93         | 1022.94  | 123.98  | 0.12         |
| North Main   | reach 1  | 174282             | 3035.00   | 32.56 | 44.87 | 36.04 | 44.95 | 0.000134 | 2.25         | 1351.54  | 132.10  | 0.12         |
| North Main   | reach 1  | 174282             | 4140.00   | 32.56 | 46.37 | 36.77 | 46.48 | 0.000166 | 2.67         | 1553.25  | 136.97  | 0.14         |
| North Main   | reach 1  | 174282             | 9192.00   | 32.56 | 49.24 | 39.35 | 49.39 | 0.000329 | 3.52         | 6487.58  | 6504.80 | 0.19         |
|  | · Charles Will   | A 218-1 19-1       |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 173031             | 1974.00   | 32.46 | 42.11 | 35.14 | 42.18 | 0.000161 | 2.10         | 940.34   | 118.08  | 0.13         |
| North Main   | reach f  | 173031             | 3035.00   | 32.46 | 44.67 | 35.99 | 44.76 | 0.000165 | 2.41         | 1257.01  | 129.57  | 0.14         |
| North Main   | reach 1  | 173031             | 4140.00   | 32.46 | 46.13 | 36.78 | 46.25 | 0.000205 | 2.86         | 1449.79  | 136.18  | 0.15         |
| North Main   | reach 1  | 173031             | 9192.00   | 32.46 | 48.95 | 39.58 | 49.05 | 0.000203 | 3,13         | 9342.23  | 7832.45 | 0.16         |
| IVOIUI MARI  | (GaGI)   | 173031             | 9192.00   | 32.40 | 40.53 | 39,30 | 45.05 | 0.000202 | 3,13         | 9342.23  | 1032.43 | 0,10         |
|  | a large of   | 1.70070            | 4074.00   |       | 40.44 |       |       |          |              |          | 140.05  |              |
| North Main   | reach 1  | 172979             | 1974.00   | 32.46 | 42.11 | 35.14 | 42.17 | 0.000162 | 2.10         | 939.32   | 118.05  | 0.13         |
| North Main   | reach 1  | 172979             | 3035.00   | 32.46 | 44.67 | 35.99 | 44.76 | 0.000166 | 2.42         | 1255.87  | 129.53  | 0.14         |
| North Main   | reach 1  | 172979             | 4140.00   | 32.46 | 46.11 | 36.77 | 46.24 | 0.000205 | 2.86         | 1448.30  |         |              |
| North Main   | reach 1  | 172979             | 9192.00   | 32.46 | 48.93 | 39.58 | 49.03 | 0.000208 | 3.18         | 9150.24  | 7831.77 | 0.16         |
| 11 11 11 11 11 11 11 11  | the state of the state of  | A be allowed       |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 172000.            | 1974.00   | 32.46 | 41.95 | 35.04 | 42.02 | 0.000155 | 2.06         | 957.79   | 120.05  | 0,13         |
| North Main   | reach 1  | 172000.            | 3035.00   | 32.46 | 44.51 | 35.86 | 44.60 | 0.000157 | 2.38         | 1276.18  | 128.96  | 0.13         |
| North Main   | reach 1  | 172000.            | 4140.00   | 32.46 | 45.92 | 36.61 | 46.04 | 0.000196 | 2.83         | 1461.47  | 133.86  | 0.15         |
| North Main   | reach t  | 172000             | 9192.00   | 32.46 | 48.43 | 39.37 | 48.71 | 0.000535 | 4.45         | 3910.20  | 3452.95 | 0.25         |
|  | 4 1981 A 1994 A  | The state of the   |           |       |       |       |       | 1        |              |          |         |              |
| North Main   | reach 1  | 170000.            | 1974.00   | 32.45 | 41.65 | 34.87 | 41.71 | 0.000147 | 2.01         | 982.79   | 122.56  | 0.12         |
| North Main   | reach 1  | 170000             | 3035.00   | 32.45 | 44.20 | 35.65 | 44.28 |          | 2.32         |          |         |              |
| North Main   | reach 1  | 170000.            | 4140.00   | 32.45 | 45.51 | 36.36 | 45.63 |          | 2.78         |          |         |              |
| North Main   | reach 1  | 170000.            | 9192.00   | 32.45 | 46.94 | 38.97 | 47.38 |          | 5.34         |          |         |              |
| 1402 RT BARRIT   | TOBOT !  | 170000.            | 5192.00   | 34.45 | 40.94 | 30.97 | 47.38 | 0.000018 | 5.34         | 1720.52  | 170.75  | 0.30         |
| March Barr   |  | 400000             | 4074.00   |       |       |       | ·     | 0.0001   | <del> </del> |          | 100 10  | <del> </del> |
| North Main   | reach 1  | 168000.            | 1974.00   | 32.50 | 41.32 | 34.99 | 41.39 |          | 2.15         |          |         |              |
| North Main   | reach 1  | 168000.            | 3035.00   | 32.50 | 43.86 | 35.79 | 43.96 |          | 2.44         |          |         |              |
| North Main   | reach 1  | 168000.            | 4140.00   | 32.50 | 45.06 | 36.53 | 45.15 |          | 2.61         |          |         |              |
| North Main   | reach 1  | 168000.            | 9192.00   | 32.50 | 46.35 | 39.17 | 46.42 | 0.000262 | 2.83         | 8235.54  | 4202.26 | 0.17         |
| 1 2 2 2  |  |                    |           |       |       |       |       |          |              |          |         |              |
| North Main   | reach 1  | 167722             | 1974.00   | 32.50 | 41.25 | 35.05 | 41.33 | 0.000204 | 2.26         | 871.91   | 116.28  | 0.15         |
| North Main   | reach 1  | 167722             | 3035.00   | 32.50 | 43.80 | 35.87 | 43.91 |          | 2.57         | +        |         |              |
| North Main   | reach 1  | 167722             | 4140.00   | 32.50 | 44.96 |       | 45.08 |          | 2.91         |          |         |              |
| The second secon |  |                    |           |       |       |       |       |          |              |          |         |              |
|  | I TREACH 1   | 187722             | 0.102.001 | 30 40 |       | 30.27 |       |          |              |          |         |              |
| North Main   | reach 1  | 167722             | 9192.00   | 32.50 | 46.27 | 39.37 | 46.35 | 0.000226 | 3.07         | 9976.69  | 7209.73 | 0.16         |

HEC-RAS Plans P. 50% D. (Continued)

| River                    | Plan- P 50% I<br>Reach | River Sta      | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnf     | Flow Area          | Top Width          | Froude # Chi  |
|--------------------------|------------------------|----------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|--------------------|--------------------|---------------|
|                          | Service Services       |                | (cfs)              | (ft)           | (ft)           | (ft)           | · (ft)         | (ft/ft)    | (ft/s)       | (sq ft)            | (ft)               | 110000 # 0.11 |
| North Main               | reach 1                | 187842         | 1974.00            | 32.50          | 41.24          | 35.05          | 41.32          | 0.000205   | 2.27         | 869.95             | 116.21             | 0.15          |
| North Main               | reach 1                | 167642         | 3035.00            | 32.50          | 43.79          | 35.88          | 43.89          | 0.000198   | 2.58         | 1178,37            | 125.79             | 0.15          |
| North Main               | reach 1                | 167642         | 4140.00            | 32.50          |                | 36.62          | 45.07          | 0.000230   | 2.93         | 2371.19            | 2982.25            | 0.16          |
| North Main               | reach 1                | 167842         | 9192.00            | 32.50          | 46.25          | 39.37          | 46.33          | 0.000234   | 3.13         | 9790.33            | 7167.82            | 0.17          |
| March Maria              |                        | 7.20           |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 168000.        | 1974.00            | 32.51          | 40.87          | 35.10          | 40.95          | 0.000236   | 2.33         | 848.74             | 123.00             | 0.18          |
| North Main               | reach 1                | 166000.        | 3035.00            | 32.51          | 43.43          | 35.92          | 43.53          | 0.000247   | 2.56         | 1183.53            | 152.94             | 0.16          |
| North Main               | reach 1                | 166000.        | 4140.00            | 32.51          | 44.45          | 36.67          | 44.59          | 0.000374   | 3.03         | 1454.61            | 1304.02            | 0.20          |
| THUY UT MAIN             | reach)                 | 100000         | 9192.00            | 32.51          | 45.94          | 39,38          | 45.98          | 0.000179   | 2.27         | 12481.40           | 7848.60            | 0.14          |
| North Main               | reach 1                | 164000.        | 1974.00            | 31.68          | 40.48          | 34.10          | 40.55          | 0.000400   |              |                    |                    |               |
| North Main               | reach 1                | 164000.        | 3035.00            | 31.68          | 42.98          | 34.89          | 40.55<br>43.08 | 0.000168   | 2.06         | 958.62             | 128.92             | 0.13          |
| North Main               | reach 1                | 184000.        | 4140.00            | 31.68          | 44.05          | 35.60          | 44.10          | 0.000212   | 2.29         | 1327.52            | 181.82             | 0.15          |
| North Main               | reach 1                | 164000.        | 9192.00            | 31.68          | 45.75          | 38.22          | 45.76          | 0.000087   | 2.06         | 5299.46            | 6485.77            | 0.13          |
|                          | 16-4-4                 | (4th)          | - 7,0              |                | 10.70          |                | 40.70          | 0.00007    | 1.40         | 17973.91           | 7843.09            | 0.09          |
| North Main               | reach 1                | 163662         | 1974.00            | 31.34          | 40.43          | 33.78          | 40.49          | 0.000154   | 2.02         | 977.12             | 126.16             | 0.13          |
| North Main               | reach 1                | 163662         | 3035.00            | 31.34          | 42.92          | 34.56          | 43.00          | 0.000162   | 2.33         | 1303.69            | 140.35             | 0.13          |
| North Main               | reach 1                | 163662         | 4140.00            | 31.34          | 43.98          | 35.27          | 44.04          | 0.000215   | 2.15         | 4231.98            | 4430,39            | 0.15          |
| North Main               | reach-1                | 163662         | 9192.00            | 31.34          | 45.73          | 37.89          | 45.74          | 0.000104   | 1.66         | 13895.87           | 5000.00            | 0.11          |
| 3 24 2                   | · Same and             | 7 7 55 75 77 1 | !                  |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 163605         | 1974.00            | 31.34          | 40.42          | 33.78          | 40.49          | 0.000155   | 2.02         | 975.98             | 126.12             | 0.13          |
| North Main               | reach 1                | 163605         | 3035.00            | 31.34          | 42.91          | 34.56          | 42.99          | 0.000161   | 2.33         | 1302.40            | 139.78             | 0.13          |
| North Main               | reach 1                | 163605         | 4140.00            | 31.34          | 43.97          | 35.28          | 44.03          | 0.000218   | 2.17         | 4170.09            | 4401.36            | 0.15          |
| North Main               | reach 1                | 163605         | 9192.00            | 31.34          | 45.72          | 37.90          | 45.74          | 0.000105   | 1.66         | 13859.00           | 6000.00            | 0.11          |
| Adamb Ar 1               |                        | 1 ×            |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 162000.        | 1974.00            | 31.35          | 40.15          | 33.81          | 40.22          | 0.000176   | 2.09         | 943.78             | 128.25             | 0.14          |
| North Main               | reach 1                | 162000.        | 3035.00            | 31.35          | 42.60          | 34.60          | 42.69          | 0.000226   | 2.36         | 1286.70            | 176.80             | 0.15          |
| North Main               | reach 1                | 162000.        | 4140.00            | 31.35          | 43.87          | 35.32          | 43.87          | 0.000046   | 1.10         | 10898.96           | 6626.67            | 0.07          |
| North Main               | reach 1                | 162000.        | 9192.00            | 31.35          | 45.64          | 37.95          | 45.65          | 0.000029   | 0.94         | 24226.59           | 7862.08            | 0.06          |
| North Main               | reach 1                | 180000.        | 1974.00            | 31.35          | 39.83          | 33.56          | 20.00          | 0.000454   | - 100        |                    |                    |               |
| North Main               | reach 1                | 160000.        | 3035.00            | 31.35          | 42.23          | 34.27          | 39.89<br>42.31 | 0.000151   | 1.95         | 1013,42            | 135.93             | 0.13          |
| North Main               | reach 1                | 160000.        | 4140.00            | 31.35          | 43.68          | 34.93          | 43.72          | 0.000151   | 2.25<br>1.98 | 1351.00<br>4900.37 | 145.49             | 0.13          |
| North Main               | reach 1                | 160000.        | 9192.00            | 31.35          | 45.55          | 37.37          | 45.56          | 0.000062   | 1.48         | 17835.44           | 4799.01<br>7833.30 | 0.12<br>0.08  |
|                          | - political            |                | 7,52,55            |                | 45.00          | 07.07          | 45.50          | 0.00002    | 1.40         | 17033.44           | 1033.30            | 0.08          |
| North Main               | reach 1                | 158000.        | 1974.00            | 31.36          | 39.46          | 33.74          | 39.54          | 0.000208   | 2.19         | 899.41             | 129.17             | 0.15          |
| North Main               | reach 1                | 158000.        | 3035.00            | 31,36          | 41.86          | 34,50          | 41.96          | 0.000205   | 2.48         | 1222.41            | 143.77             | 0.15          |
| North Main -             | reach 1                | 158000.        | 4140.00            | 31.36          | 43.36          | 35.20          | 43.42          | 0.000181   | 2.20         | 4167.42            | 4237.10            | 0.14          |
| North Main               | reach 1                | 158000.        | 9192.00            | 31.36          | 45.42          | 37.72          | 45.44          | 0.000065   | 1.44         | 17806.34           | 7860.04            | 0.09          |
| 112.32                   | Manager .              |                |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach:1                | 157191         | 1974.00            | 31.36          | 39.26          | 33.81          | 39.35          | 0.000259   | 2.42         | 816.54             | 119.01             | 0.16          |
| North Main               | reach 1                | 157191         | 3035,00            | 31.36          | 41.58          | 34.61          | 41.78          | 0.000243   | 2.72         | 1113.90            | 128.50             | 0.16          |
| North Main               | reach 1                | 157191         | 4140.00            | 31.36          | 43.08          | 35.33          | 43.23          | 0.000281   | 3.15         | 1584.34            | 1820.91            | 0.18          |
| North Main               | reach 1                | 157191         | 9192.00            | 31,36          | 45.34          | 37.99          | 45.37          | 0.000103   | 2.06         | 14907.75           | 8000.00            | 0.11          |
|                          | 7.5                    | 1              |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 157140         | 1974.00            | 31.36          | 39.25          | 33.81          | 39.34          | 0.000261   | 2.42         | 814.90             | 116.96             | 0.16          |
| North Main<br>North Main | reach 1                | 157140         | 3035.00            | 31.36          | 41.65          | 34.60          | 41.76          | 0.000244   | 2.73         | 1112.24            | 128.45             | 0.16          |
| North Main               | reach 1                | 157140         | 9192.00            | 31.36<br>31.36 | 43.07          | 35.33          | 43.22          | 0.000283   | 3.16         | 1562.15            | 1759.26            | 0.18          |
| TOTAL MISSI              | TOWARD !               | 107 140        | 3132.00            | 31,30          | 45.34          | 37.98          | 45.36          | 0.000104   | 2.07         | 14862.52           | 8000.00            | 0.11          |
| North Main               | reach 1                | 158000.        | 1974.00            | 31.36          | 38.93          | 33.74          | 39.03          | 0.000282   | 2.48         | 796.23             | 118.51             | 0.17          |
| North Main               | reach-1                | 158000.        | 3035.00            | 31.36          | 41.38          | 34.52          | 41.48          | 0.000256   | 2.77         | 1094.52            | 127.19             | 0.17<br>0.17  |
| North Main               | reach 1                | 156000.        | 4140.00            | 31.36          | 42.67          | 35.23          | 42.83          | 0.000407   | 3.21         | 1288.21            | 170.96             | 0.17          |
| North Main               | reach 1                | 156000.        | 9192.00            | 31.36          | 45.25          | 37.85          | 45.26          | 0.000073   | 1.58         | 17233.10           | 7826.93            | 0.21          |
|                          |                        |                |                    |                |                |                |                |            |              |                    | . 02.0.00          | 5.05          |
| North Main               | reach:1                | 154844         | 1974.00            | 31.37          | 38.55          | 33.62          | 38.64          | 0.000289   | 2.47         | 800.05             | 122.17             | 0.17          |
| North Main               | reach 1                | 154844         | 3035.00            | 31.37          | 41.02          | 34.36          | 41.14          | 0.000250   | 2.73         | 1111.31            | 129.47             | 0.16          |
| North Main               | reach 1                | 154644         | 4140.00            | 31.37          | 42.17          | 35.03          | 42.34          | 0.000316   | 3.28         | 1262.82            | 132.87             | 0.19          |
| North Main               | reach 1                | 154644         | 9192.00            | 31.37          | 44.99          | 37.54          | 45.08          | 0.000290   | 3.09         | 8917.78            | 7742.92            | 0.18          |
|                          | 711.4                  |                |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 153231         | 1974.00            | 31.03          | 38.05          | 33.60          | 38.16          | 0.000395   | 2.73         | 722.44             | 120.99             | 0.20          |
| North Main               | reach 1                | 153231         | 3035.00            | 31.03          | 40.61          | 34.38          | 40.74          | 0.000308   | 2.90         | 1047,67            | 132.66             | 0.18          |
| North Main               | reach 1                | 153231         | 4140.00            | 31.03          | 41.65          | 35.10          | 41.84          | 0.000396   | 3.48         | 1188.09            | 137.43             | 0.21          |
| North Main               | reach 1                | 153231         | 9192.00            | 31.03          | 44.07          | 37.67          | 44.44          | 0.000896   | 5.23         | 3629.83            | 4998,18            | 0.31          |
| Morth Mai-               |                        | 152504         | 1071.00            | - 2            |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 152561         | 1974.00            | 31,03          | 37.74          | 33.55          | 37.87          | 0.000476   | 2.93         | 674.35             | 117.57             | 0.22          |
| North Main<br>North Main | reach 1                | 152561         | 3035.00<br>4140.00 | 31.03<br>31.03 | 40.38          | 34.35          | 40.52          | 0.000350   | 3.03         | 1002.64            | 131.13             | 0.19          |
| North Main               | reach 1                | 152561         | 9192.00            | 31.03          | 41.35<br>43.59 | 35.08<br>37.76 | 41.55          | 0.000458   | 3.66         | 1131.80            | 136.11             | 0.22          |
| VIUI MAIN                | 1 Street 1             | (02001         | 3192.00            | 31,03          | 43.39          | 37.76          | 43.80          | 0.000853   | 4,34         | 5044.71            | 4619.92            | 0.30          |
| North Main               | reach 1                | 152553         | Inline Weir        |                |                |                |                |            |              |                    |                    |               |
| medi                     |                        | 1              |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 152515         | 1974.00            | 28.25          | 37.73          | 30.75          | 37.80          | 0.000145   | 2.00         | 988.86             | 123.74             | 0.12          |
| North Main               | reach 1                | 152515         | 3035.00            | 28.25          | 40.37          | 31.57          | 40.45          | 0.000143   | 2.28         | 1329.35            | 134.53             | 0.12          |
| North Main               | reach 1                | 152515         | 4140.00            | 28.25          | 41.34          | 32.30          | 41.46          | 0.000204   | 2.83         | 1461.30            | 138.49             | 0.15          |
| North Main               | reach 1                | 152515         | 9192.00            | 28.25          | 43.58          | 34.98          | 43.74          | 0.000517   | 3.67         | 5659.88            | 5396.13            | 0.23          |
|                          | 1                      |                |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 152000.        | 1974.00            | 28.25          | 37.66          | 30.80          | 37.72          | 0.000156   | 2.04         | 965.84             | 123.14             | 0.13          |
| North Main               | reach 1                | 152000.        | 3035.00            | 28.25          | 40.30          | 31.62          | 40.38          | 0.000153   | 2.32         | 1305.78            | 134.65             | 0.13          |
|                          |                        |                |                    |                |                |                |                |            |              |                    |                    |               |

| Pilver                       | Plan: P 25%<br>Reach | River Sta        | Q Total            | Min Ch El      | W.S. Elev | Crit W.S. | E.G. Elev      | E.G. Slope           | Vel Chni     | Flow Area        | Top Width      | Froude # Chl                          |
|------------------------------|----------------------|------------------|--------------------|----------------|-----------|-----------|----------------|----------------------|--------------|------------------|----------------|---------------------------------------|
|                              |                      | 2.03             | (cfs)              | (ft)           | (ft)      | (ft) :    | (ft)           | (ft/H)               | (fVe)        | (eq ft)          | (ft)           |                                       |
| raymondville                 | reach 3 (south)      | 121629           | 1148.00            | 23.01          | 35.29     |           | 35.30          | 0.000044             | 0.97         | 6883.58          | 6500.00        | 0.06                                  |
| raymondville                 | reach 3 (south)      | 120128           | 201.00             | 22.81          | 28.29     |           | 20.00          | 0.000470             |              |                  |                |                                       |
| raymondville                 | reach 3 (south)      | 120128           | 343.00             | 22.81          | 30.02     |           | 28.30<br>30.05 | 0,000172<br>0,000173 | 1.19         | 169,34           | 41.89          | 0.10                                  |
| raymondville                 | reach 3 (south)      | 120128           | 528,00             | 22.81          | 31.56     |           | 31.60          | 0.000173             | 1.38         | 248.24<br>328.22 | 48.85<br>55.01 | 0.11                                  |
| raymondville                 | reach 3 (south)      | 120128           | 1148.00            | 22.81          | 35.22     |           | 35.23          | 0.000049             | 1.03         | 6433.44          | 6500,00        | 0.12                                  |
|                              |                      | 46.27            |                    |                |           |           |                |                      |              |                  | 3330.02        |                                       |
| raymondville                 | reach 3 (south)      | 120078           | 201.00             | 22.80          | 28.27     |           | 28.30          | 0.000172             | 1.19         | 169.39           | 41.89          | 0.10                                  |
| raymondville                 | reach 3 (south)      | 120078           | 343.00             | 22.80          | 30.01     |           | 30.04          | 0.000173             | 1.38         | 248.30           | 48.85          | 0.11                                  |
| raymondville                 | reach 3 (south)      | 120078           | 528.00             | 22.80          | 31.55     | <u> </u>  | 31.59          | 0.000191             | 1.61         | 328.24           | 55.01          | 0.12                                  |
| raymondville                 | reach 3 (south)      | 120078           | 1148,00            | 22.80          | 35.22     |           | 35.23          | 0.000049             | 1.03         | 6416.96          | 6500.00        | 0.06                                  |
| raymondville                 | reach 3 (aouth)      | 118101           | 201.00             | 22.55          | 27.92     |           | 27.94          | 0.000184             | 4.00         | 405.00           |                |                                       |
| reymondville                 | reach 3 (south)      | 118101           | 343.00             | 22.55          | 29.66     |           | 29.69          | 0.000184             | 1.22<br>1.41 | 165.06<br>243.21 | 41.48<br>48.43 | 0.11                                  |
| raymondville                 | reach 3 (south)      | 118101           | 528.00             | 22.55          | 31.16     |           | 31,20          | 0.000204             | 1.65         | 320.40           | 54.44          | 0.11<br>0.12                          |
| raymondville                 | reach 3 (south)      | 118101           | 1148.00            | 22.55          | 35,11     |           | 35.12          | 0.000059             | 1.13         | 5717.63          | 6500.00        | 0.07                                  |
|                              | \$ 200               |                  |                    |                |           |           |                |                      |              |                  | 525.00         | 0.01                                  |
| raymondville                 | reach 3 (south)      | 118051           | 201.00             | 22.54          | 27.91     |           | 27.93          | 0.000184             | 1.22         | 185.09           | 41.48          | 0.11                                  |
| raymondville                 | reach 3 (south)      | 118051           | 343.00             | 22.54          | 29.65     |           | 29.68          | 0.000183             | 1.41         | 243.25           | 48.44          | 0.11                                  |
| raymondville                 | reach 3 (south)      | 118051           | 528.00             | 22,54          | 31.15     |           | 31.19          | 0.000204             | 1.65         | 320.38           | 54.43          | 0.12                                  |
| reymondville                 | reach 3 (south)      | 118061           | 1148.00            | 22.54          | 35.10     |           | 35,12          | 0.000059             | 1.14         | 5697,91          | 6500.00        | 0.07                                  |
| raymondville                 | reach 3 (south)      | 116902           | 201,00             | 22.39          | 27.69     |           | 27.72          | 0.000400             |              | 100.0            |                |                                       |
| raymondville                 | reach 3 (south)      | 116902           | 343.00             | 22.39          | 27.69     |           | 27.72          | 0.000193             | 1.24         | 162.30<br>240.11 | 41.21<br>48.18 | 0.11<br>0.11                          |
| raymondville                 | reach 3 (south)      | 116902           | 528.00             | 22.39          | 30.91     |           | 30.95          | 0.000190             | 1.43         | 315.46           | 48.18<br>54.07 | 0.11                                  |
| raymondville                 | reach 3 (south)      | 116902           | 1148.00            | 22.39          | 35.03     |           | 35.04          | 0.000067             | 1.21         | 5217.92          | 6500.00        | 0.12                                  |
| 4.504.50                     | .72.6 8 1 2 5 1      |                  |                    |                |           |           |                |                      |              |                  |                |                                       |
| raymondville                 | reach 3 (south)      | 114860           | 201.00             | 22.13          | 27.27     |           | 27.30          | 0.000218             | 1.29         | 155,61           | 40.56          | 0.12                                  |
| raymondville                 | reach 3 (south)      | 114880           | 343,00             | 22.13          | 29.04     |           | 29.07          | 0.000205             | 1.47         | 233.47           | 47.82          | 0.12                                  |
| raymondville<br>raymondville | reach 3 (south)      | 114860           | 528.00             | 22.13          | 30.45     |           | 30,50          | 0.000234             | 1.73         | 304.78           | 53.28          | 0.13                                  |
| таутновичне                  | reach 3 (south)      | 114860           | 1148.00            | 22.13          | 34.85     |           | 34.87          | 0.000104             | 1.50         | 2682.69          | 2554.83        | 0.09                                  |
| raymondville                 | reach 3 (south)      | 119007           | 201.00             | 21.88          | 26.84     |           | 26.86          | 0.000249             | 1.20         | 140.00           | 90.00          |                                       |
| raymondville                 | reach 3 (south)      | 115007           | 343.00             | 21.88          | 28.64     |           | 28.67          | 0.000223             | 1.36         | 148.22<br>226.45 | 39.82<br>47.03 | 0.12<br>0.12                          |
| raymondville                 | reach 3 (south)      | 113007           | 528.00             | 21.88          | 29.99     |           | 30.04          | 0.000259             | 1.80         | 293.73           | 52.44          | 0.12                                  |
| raymondville                 | reach 3 (south)      | 113007           | 1148.00            | 21.88          | 34.55     |           | 34.61          | 0.000197             | 2.00         | 574.41           | 70.68          | 0.12                                  |
|                              |                      | 146, 246, 4      |                    |                |           |           |                |                      |              |                  |                |                                       |
| raymondville                 | reach 3 (south)      | 112058           | 201.00             | 21.76          | 26.59     |           | 26.62          | 0.000275             | 1.40         | 143.06           | 39.30          | 0.13                                  |
| raymondville                 | reach 3 (south)      | 112058           | 343.00             | 21.76          | 28.42     |           | 28.45          | 0.000236             | 1.55         | 221.80           | 46.63          | 0.12                                  |
| raymondville                 | reach 3 (south)      | 112058           | 528.00             | 21.76          | 29.73     |           | 29.79          | 0.000277             | 1.84         | 286.63           | 51.89          | 0.14                                  |
| raymondville                 | reach 3 (south)      | 112058           | 1148.00            | 21.76          | 34.36     |           | 34.42          | 0.000202             | 2.02         | 569.44           | 70.40          | 0.12                                  |
| raymondville                 | reach 3 (south)      | 112008           | 201.00             | 21.75          | 26.57     |           | 26.60          | 0.000276             | 1.41         | 142.90           | 20.00          | 0.40                                  |
| raymondville                 | reach 3 (south)      | 112008           | 343.00             | 21.75          | 28.41     |           | 28.44          | 0.000278             | 1.41         | 221.70           | 39.28<br>46.62 | 0.13                                  |
| raymondville                 | reach 3 (south)      | 112008           | 528.00             | 21.75          | 29.72     |           | 29.77          | 0.000277             | 1.84         | 286.41           | 51.88          | 0.13                                  |
| raymondville                 | reach 3 (south)      | 112008           | 1148.00            | 21.75          | 34.35     |           | 34.41          | 0.000202             | 2.02         | 569,43           | 70.39          | 0.12                                  |
| 10.5 V.X (1.7)               |                      | 3.2              |                    |                |           |           |                |                      |              |                  |                |                                       |
|                              | reach 3 (south)      | 110270           | 201.00             | 21.53          | 26.02     |           | 26.06          | 0.000360             | 1.55         | 130.08           | 37.98          | 0.15                                  |
| raymondville                 | reach 3 (south)      | 110270           | 343.00             | 21.53          | 27.96     |           | 28.00          | 0.000270             | 1.62         | 211.43           | 45.73          | 0.13                                  |
|                              | reach 3 (south)      | 110270           | 528.00             | 21.53          | 29.19     |           | 29.25          | 0,000323             | 1.95         | 270.71           | 50.65          | 0.15                                  |
| raymondville                 | reach 3 (south)      | 110270           | 1148.00            | 21.53          | 33.99     |           | 34.05          | 0.000212             | 2.05         | 559.47           | 69.83          | 0,13                                  |
| raymondville                 | reach t              | 109185           | 861.00             | 17.51          | 25.84     |           | 25.87          | 0.000143             | 1.51         | 570.85           | 07.07          |                                       |
| raymondville                 | reach 1              | 109185           | 1382.00            | 17.51          | 27.75     |           | 27.80          | 0.000171             | 1.86         | 744.68           | 87.37<br>94.99 | 0.10<br>0.12                          |
| raymondville                 | reach 1              | 109185           | 1940.00            | 17.51          | 28.91     |           | 28.98          | 0.000226             | 2.26         | 857.53           | 99.63          | 0.12                                  |
| raymondville                 | reach 1              | 109185           | 5581.00            | 17.51          | 33.27     |           | 33.54          | 0.000542             | 4.19         | 1330.39          | 117.09         | 0.22                                  |
|                              |                      |                  |                    |                |           |           |                |                      |              |                  |                |                                       |
|                              | reach 1              | 109050           | 861.00             | 17.49          | 25.82     |           | 25.88          | 0.000143             | 1.51         | 570.91           | 87,37          | 0.10                                  |
| raymondville                 | reach 1              | 109050           | 1382.00            | 17.49          | 27.72     |           | 27.78          | 0.000171             | 1.86         | 744.38           | 94.98          | 0.12                                  |
| raymondville<br>raymondville | reach 1<br>reach 1   | 109050<br>109050 | 1940.00<br>5581.00 | 17.49<br>17.49 | 28.87     |           | 28.95          | 0.000226             | 2.27         | 856.46           | 99.59          | 0.14                                  |
| ratymoskivine                | reach 1              | 109450           | 5581.00            | 17.49          | 33.19     |           | 33.47          | 0.000550             | 4.22         | 1323.75          | 116.86         | 0.22                                  |
| raymondville                 | reach 1              | 108145           | 861.00             | 17.35          | 25.76     |           | 25.80          | 0.000138             | 1.49         | 578.16           | 87.70          | 0.10                                  |
| raymondville                 | reach 1              | 108145           | 1382.00            | 17.35          | 27.65     |           | 27.71          | 0.000167             | 1,84         | 751.08           | 95,26          | 0.10                                  |
|                              | reach 1              | 108145           | 1940.00            | 17.35          | 28.78     |           | 28.86          | 0.000223             | 2.25         | 861.08           | 99.77          | 0.12                                  |
| raymondville                 | reach 1              | 108145           | 5581.00            | 17.35          | 32.93     |           | 33.20          | 0.000782             | 4.24         | 1353.07          | 727,58         | 0.25                                  |
|                              |                      | M. Brown D. O.   |                    |                |           |           |                |                      |              |                  |                |                                       |
| raymondville                 | reach 1              | 107740           | 861.00             | 17.35          | 25.71     |           | 25.74          | 0.000141             | 1.50         | 573.14           | 87.47          | 0.10                                  |
| raymondville                 | reach 1              | 107740           | 1382.00            | 17.35          | 27.58     |           | 27.64          | 0.000171             | 1.86         | 744.46           | 94.98          | 0.12                                  |
| raymondville<br>raymondville | reach 1              | 107740           | 1940.00            | 17.35          | 28.69     |           | 28.77          | 0.000230             | 2.28         | 851.76           | 99.40          | 0.14                                  |
| - CALIFORNIA I               | reach 1              | 107740           | 5581.00            | 17.35          | 32.63     |           | 32.92          | 0.000611             | 4.38         | 1274.24          | 115.15         | 0.23                                  |
| raymondville                 | reach 1              | 106578           | 861.00             | 17.16          | 25.54     | 19.40     | 25.58          | 0,000140             | 1.50         | 575.49           | 87.58          | 0.10                                  |
| raymondville                 | reach 1              | 106578           | 1382.00            | 17.16          | 27.38     | 20.08     | 27.44          | 0.000172             | 1.86         | 743.55           | 94.94          | 0.10                                  |
| raymondville                 | reach 1              | 106578           | 1940.00            | 17.16          | 28.42     | 20.71     | 28.50          | 0.000172             | 2.30         | 843.61           | 99.07          | 0.12                                  |
| raymondville                 | reach 1              | 106578           | 5581.00            | 17.16          | 31.82     | 23.75     | 32.15          | 0.000716             | 4.64         | 1203.98          | 112.68         | 0.25                                  |
|                              |                      |                  |                    |                |           |           |                |                      |              |                  |                |                                       |
| <u> </u>                     | reach 1              | 106370           | 861.00             | 17.13          | 25.51     | 19.36     | 25.55          | 0.000137             | 1.47         | 583.93           | 89.74          | 0.10                                  |
| raymondville                 |                      |                  |                    |                |           |           |                | 0.000468             | 1.83         |                  |                |                                       |
| raymondville                 | reach 1              | 106370           | 1382.00            | 17.13          | 27.35     | 20.05     | 27.40          | 0.000168             |              | 755.87           | 97.61          | 0.12                                  |
| raymondville<br>raymondville | reach 1<br>reach 1   | 108370           | 1940.00            | 17.13          | 28.37     | 20.67     | 28.45          | 0.000231             | 2.26         | 857.54           | 101.97         | 0.14                                  |
| raymondville<br>raymondville | reach 1              |                  |                    |                |           |           |                |                      |              |                  |                | · · · · · · · · · · · · · · · · · · · |

HEC\_DAS\_Plan-P\_25%\_3 (Continued)
River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chal Flow Area Top Width Froude # Chi (cta) (ft) (ft) (ft/ft) (ft/s) (aq ft) raymondville reach 1 105922 1382 00 17.08 27.27 19.99 27.32 0.000170 1.84 751.68 96.87 0.12 raymondville reach 1 105922. 1940.00 17.06 28.28 20.61 28.34 2.28 849.03 101.01 0.14 raymondville reach 1 105922 5581.00 17.06 31.32 23.68 31.66 0.000787 4.73 1179.15 115.54 0.26 raymondville reach i 105474. 861.00 16.99 581.11 25.39 19.22 25.43 0.000137 1.48 88.70 0.10 reach 1 105474. 1382.00 16,99 27.19 19.91 27.25 0.000171 1.85 747 69 96.15 0,12 raymondviile reach 1 105474 1940.00 16.99 28.14 20.54 28.22 0.000241 2.31 840.81 100.08 0.14 raymondville reach 1 105474. 5581.00 16.99 30.91 23,60 31.29 0.000875 4.92 1135.04 113.63 0.27 raymondville 105026. 861.00 16.91 25.33 19 14 25.36 0.000137 1.48 580.59 88.23 0.10 raymondville reach 1 1382.00 16.91 27.12 19.83 27.17 0.000172 1.86 744.63 95.49 0.12 raymondville 1940.00 105026 16.91 28.03 20.48 28.11 0.000248 2.33 833.61 99,21 0.14 reach t 105026 5581.00 16.91 1087.58 30.47 23.52 30.88 0.000959 5.13 109.18 0.29 raymondville reach 1 104578 861.00 16.84 25.27 19.07 25.30 0.000137 1,49 579.52 87.76 0.10 raymondville reacht 1 104578 1382.00 18.84 27.04 19.76 27.09 0.000174 1.86 741.05 94.84 0.12 raymondy reach 1 104578 1940 00 16 64 27.92 825.97 20.39 28.00 0.000251 2.35 98.36 0.14 each 1 104578 raymondville 5581.00 16.84 29.96 23.45 30.41 0.001094 5.39 1035.63 108.54 0.30 reach 1 102128 861.00 16.43 24.94 24.97 0.000132 1 47 588 63 89.00 0.10 raymondville reach t 102128 1382.00 16.43 26.73 26.75 0.000109 1.32 1799.38 1091.37 0.09 raymondville reach 1 102128 1940.00 16.43 27.63 27.64 0.000087 1,29 2908.68 1366.37 0.08 29.57 raymondville reach 1 102128 5581.00 16.43 0.000128 1.82 7680.15 3391.29 0.11 raymondville reach 1 100615 661.00 16.19 653.66 24.76 18.41 24.79 0.000112 1.32 103.97 0.09 raymondville reach 1 100615 1382.00 16.19 28.58 19.08 26.60 0.000086 1.36 1715.80 999.60 0.08 reach 1 100615 1940.00 raymondville 16.19 27.50 19.70 27.52 0.000078 1.39 2962.54 1659.42 0.08 raymondville reach 1 100815 5581,00 16.19 29.39 22.60 29.42 0.000104 1.82 8208.27 3502.10 0.10 raymondvilla 100117 reach t 861.00 16.10 24.69 18.33 24.73 0.000127 1.45 594.10 88.42 0.10 raymondvill reach 1 100117 1382.00 16.10 26.52 19.02 26.55 0.000124 1.40 1553.75 890.63 0.10 аутопdville reach 1 100117 1940.00 16.10 27,45 19.65 27.47 0.000107 1 42 2505.56 1248.84 0.09 reach 1 raymondville 5581.00 16.10 29.34 22.71 29.36 0.000142 1.91 8815.72 5833.34 0.11 raymondville reach t 98117 881 00 15.78 24,45 0.000123 1.43 88.74 601.08 0.10 raymondville reach 1 98117 1382.00 15.78 26.40 26.41 0.000042 0.82 4340.50 3518.90 0.08 reach 1 98117 гаутопс 1940.00 15.78 27.38 27.38 0.000018 0.60 8120.82 4387.05 0.04 98117 reach 1 5581.00 raymondville 15.78 29.28 29.28 0.000019 0.70 17627.24 5501.21 0.04 reach 1 98117 raymondville 861.00 15.45 24.21 24.24 0.000119 1 41 608 98 89.09 0.10 mach 1 96117 1382.00 15.45 26.24 26.27 0.000146 1.35 1740,39 1973.84 0.10 raymondville reach 1 96117 1940.00 15.45 27.32 27.33 0.000069 1.05 4426.89 3582.71 0.07 raymondville reach 1 96117 5581.00 15.45 29.23 29,23 0.000047 1.03 12720.04 5527.92 0.06 raymondville 861.00 15.32 24.14 24 1B 0.000093 1.19 115.89 0.08 raymondville reach 1 95341 1382.00 15.32 26,14 26.17 0.000109 1.31 1423.98 1381.98 0.09 raymondville 96341 15.32 reach 1 1940.00 27.25 27.27 0.000076 1 22 3498 15 3257 55 0.08 reach 1 95341 5581.00 15,32 29.18 29.19 0.000057 1,23 12071.49 5653.33 0.07 raymondville reach 1 94117 861.00 15.12 24.00 24.03 0.000113 1.39 619.84 89.56 0.09 94117 raymondville reach 1 1382.00 15.12 25.97 26.01 0.000154 1.56 1092.23 487,08 0.11 raymondvilk 94117 reach 1 1940.00 15.12 27.12 27.15 0.000124 1.56 2433.23 2026.57 0.10 raymondviik reach 1 94117 5581.00 15.12 29.06 29.08 0.000150 2.00 8142.26 5169.61 0.11 mach 1 92117 881 00 14.79 raym 23.79 17.02 23.82 0.000107 1.37 630.17 90.04 0.09 raymondville reach 1 92117 1382.00 14.79 25.64 17,71 25.68 0.000178 1.65 908.76 323.43 0.12 raymondville reach 1 92117 1940.00 14.79 26.82 18.34 26 R7 0.000182 1.77 1524.18 672.79 0.11 reach 1 raymondville 92117 5581.00 14.79 28.54 21.40 28.63 0.000360 3.02 3950.53 0.18 90057 raymondville reach 1 881.00 14.45 23.57 23.60 0.000102 1.34 641.46 90.54 0.09 each 1 00067 1382 00 14.45 raymondville 25.25 25.30 0.000198 1.70 880.99 443.65 0.12 raymondville 26.52 mach 1 90057 1940 00 14 45 26.55 0.000138 1.61 2307.31 2071.39 0.10 raymondville reach 1 90057 5581.00 14.45 28.13 28.16 0.000149 1.91 4846.01 8099.76 0.11 90018 861.00 raymondville reach 1 14.45 23.57 23.60 0.000102 1 34 541.10 90.52 0.09 raymondville 1382.00 14.45 25.25 25.29 0.000197 1,70 877.51 442.10 0.12 reach 1 90018 1940.00 raymondville 14.45 26.55 0.000139 1.62 2293.44 2069.40 0.11 raymondville reach t 90018 5581.00 14.45 2B.15 0.000151 1.92 4845.37 8067.64 0.11 88117 raymondviile reach 1 861.00 14.14 23,38 23.41 0.000097 1.32 652.09 91.01 0.09 88117 raymondvilk reach 1 1382.00 14.14 24.93 24.98 0.000141 1.73 797.93 97,21 0.11 reach 1 88117 1940.00 14.14 raymondville 26.23 26.27 0.000158 1.71 2457.84 4245.50 0.11 88117 5581.00 27.94 raymondville each 1 14.14 27.95 0.000080 1.40 10993.65 5610.39 0.08 raymondville each 1 86117 1373.00 13.81 23.01 23.08 0.000251 2.12 648.73 90.86 0.14 raymondville 24.49 reach 1 86117 2192 00 13 R1 24.38 0.000384 2.83 775.01 96.26 0.18 raymondville reach 1 86117 3161.00 13.81 25.72 18.53 25.78 0.000329 2.39 3135.89 3309.58 0.16 raymondville reach 1 86117 7345.00 13.81 27.78 27.79 0.000078 1.39 13718.07 6000.00 0.08 84790 raymondville reach 1 1373.00 13.59 22.67 22.74 91.75 0.000261 2.13 643.55 0.14 raymondvill<del>a</del> reach 1 84790 2192.00 13.59 23.82 23.95 0.000426 751.46 96.52 0.18 2.92 raymondville 24.98 reach 1 84790 3161.00 13.59 25.19 0.000589 3.65 0.22 raymondville reach 1 84790 7345.00 13.59 26.67 21.35 27.43 0.001843 2130.45 1217.29

DAS Plan: P.25% 3 (Continued) liver Reach River Sta Q Total Flow Area Min Ch El W.S. Elev Ont W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Froude # Chl (ft) (ft) **(ft)** (fVft) (sq ft) (ft) raymondville reach 1 RARDS R 1373 00 13 57 22.65 22.72 0.000265 2.13 645.33 93.85 0.14 0.000435 754.18 99.38 ach 1 PARCE R 2192 00 13.57 23 77 23 90 2.91 0.19 raymondvil 871.89 0.22 105.04 25.13 0.000602 raymondville mach i 84693.8 3161.00 13.57 24.92 3.63 2831.90 1363.28 0.40 raymondville 21.34 0.00189 6.94 reach 1 84893.8 7345.00 13.57 26.50 27.24 1373.00 13.56 22.62 22 65 0.000272 2 13 643 71 95 21 0 14 raymondville 84597,7\* 2192.00 13.56 23.73 23.86 0.000451 2.91 752.76 101.83 0.19 raymondville raymondville reach 1 84507.7\* 3161.00 13 56 24.86 25.08 0.000627 3.63 871.64 108.57 0.23 21.33 1558.03 3512.76 0.41 urh 1 84597.7° 7345.00 13.56 26.33 27.05 0.001953 6.88 raymondville 13.54 0.000277 640.31 95.19 0.15 reach 1 84501.5 1373.00 22.59 23.81 0.000489 2.93 748.27 103.41 0.19 84501.5 2192.00 13.54 23.6 raymondvilk raymondville 3161.00 24.79 24.99 0.000661 3 64 R67 51 111 78 0.23 13.54 raymondville 84501,5\* 7345.00 13.54 26.20 21.30 26,85 0.001927 8.67 1976.01 4307.10 0.40 0.15 0.000274 635.90 92.52 ..... 84405 4\* 1373.00 13.53 22.57 22.64 2.16 raymondville raymondville 0.000487 740.49 103.44 0.19 2192.00 13.53 23.63 23.77 2.96 reach 1 84405.4\* 858.00 114.46 0.24 naymondville 3161.00 13.53 24.71 0.000708 3.68 reach I 0.001540 5.85 2922.82 4335.12 0.36 raymondville 84405.4 7345.00 13.5 26.18 reach raymondville reach 1 84309.2\* 1373 00 13.51 22.54 22.61 0.000269 2.16 634.30 90,48 0.14 0.19 0.000481 99,40 raymondville reach 1 84309 21 2192 00 13.51 23.59 23.73 2.99 732.28 0.000756 aymondville 845.07 115.69 0.24 3161.00 24.64 24.8 3,74 reach 1 B4309.2 13.51 4352.82 0.31 raymondville 7345.00 13,51 26.16 26.44 0.001159 4.97 3872.64 each 1 B4309.2\* 1373.00 raymondville each 1 84213.1\* 13.50 22 51 22 59 0.000271 2 17 632 30 90.28 0.14 reymondville ach 1 84213.1\* 2192 00 13.50 23 54 23.6 0.000462 3.01 727.23 94,41 0.19 111,53 each 1 84213.1\* 3161.00 13.50 24.58 24.7 0.000772 3.81 828.60 0.25 raymondvilk 0.000959 5434.52 0.28 raymondville 7345.00 13.50 26.13 26.3 4,40 reach 1 84213.1\* 13,48 22.49 84117 1373.00 22.5 0.000272 2.18 B31 06 90 08 0.14 raymondville reach 1 raymondville reach 1 84117 2192.00 13,48 23.50 23.64 0.000467 3.03 723.93 94,11 0.19 each 1 94117 3161 00 13.48 24 49 24.72 0.000683 3.88 819.00 98.07 0.24 raymondville 0.24 raymondville 3.73 5774.11 6000.00 each 1 84117 7345.00 13.48 26.10 26.21 0.000727 22.42 90.46 0.15 83817 1373.00 13.40 22.3 0.000282 2.20 624.84 raymondville reach 1 raymondville 83617.\* 2192.00 13.40 23.25 23.40 0.000503 3.09 708 38 94 58 0.20 reach 1 83617. 3161.00 13.40 24.06 24.29 0.001067 3.94 871.78 547.45 0.28 each 1 raymondville 7345.00 25.72 25.8 0.000726 3.82 5273 55 4437.20 0.24 raymondville 13.40 reach 1 619.98 91.88 0.15 raymondville reach f B3117. 1373.00 13.31 22.19 22.23 0.000295 2.21 23.10 0.000716 3.06 789.67 428.41 0.23 raymondville 13.31 22.96 reach 1 R3117. 2192.00 13.31 23.58 23.7 0.000928 3.74 1173.98 892.1 0.26 raymondville 3161.00 reach 1 83117 0.000738 3.94 4920.65 4416.6 0.25 83117. 13.31 25.35 25.49 7345.00 raymandville each 1 793.36 509.16 0.16 raymondville 82617." 1373.00 13 23 22 04 22.10 0.000355 2.07 reach raymondville 1174.06 650.49 0.19 reach 1 82617. 2192.00 13.23 22.70 22.79 0.000499 2.66 23.39 3.17 1691.47 0.22 raymondville 3161.00 0.000628 reach 1 82617. 13.23 23.26 25.1 0.000683 4648.21 4411.05 0.24 raymondville 25,00 7345.00 13.23 reach 1 82617. 646.86 1373.00 13.15 21.93 21 9 0.00019 1.63 1272.37 0.12 reymondville 82117 1064.42 0.15 2192.00 13.15 22.54 22.59 0.000293 2.13 1808.42 raymondville each 1 82117 raymondville 2381.52 1339.66 0.17 23.12 0.000384 each 1 82117 3161.00 13 15 23.09 2.57 5446.36 2277.02 0.18 24.86 0.000393 3.03 raymondville 82117 7345.00 13.15 24.79 21.70 21 71 0.000084 0.98 3371.05 3096.58 0.08 1373.00 12.82 80117 reach 1 raymondville 2192.00 22.31 22 32 0.000074 0.99 5532.56 4007.95 0.07 raymondville 80117 12.82 reach 1 80117 4113.06 raymondville 3161.00 12.62 22.84 22.85 0.000063 0.97 7688.81 0.07 0.000041 17186.96 5896.45 0.06 each 1 80117 7345.00 12 82 24.65 24.65 0.94 raymondville 614 44 89.34 0.15 12.71 21.53 21.61 0.00029 raymondville reach 1 79415 1373.00 2192.00 12.71 22.01 22.19 0.000615 3.33 657.94 91.27 0.22 79415 raymondville reach 1 3161.00 12.71 22 38 22 70 0.001108 4 57 691.54 92.73 0.29 raymondvilk 7345.00 12.71 22.85 20.48 24.40 0.005010 9.99 735.60 94.61 0.63 each 1 78415 raymondville 21.39 3427.38 4035.47 0.08 1373.00 raymondville 12.50 21.38 ach 1 78117 21.92 0.000074 1.04 5606.71 4088 33 0.07 12.50 21.92 2192.00 raymondville reach 1 78117 22.37 22.37 0.000072 1 08 7835.45 4624.57 0.07 3161.00 12.50 78117 raymondville reach 1 7345.00 12.50 23.63 23.63 0.000073 1.23 14218.91 5831.78 0.08 78117 raymondville reach 1 4673.20 4195.73 0.00 0.000048 0.80 raymondville reach 1 78117 1373.00 12.17 21.26 21.27 4250.27 0.06 0.79 7020.72 21.82 21.82 0.000041 raymondville reach 1 78117 2192.00 12.17 0.85 9028 97 4687.69 0.06 22.26 22.27 0.000044 raymondville 3161.00 12.17 reach 1 78117 0.000056 1.07 15541.57 6000.00 0.07 raymondville 7345.00 23.50 23.5 12.17 reach 1 76117 4231.92 0.06 1373.00 11.86 21.17 21 18 0.000048 0.80 4484.59 74240 raymondville reach 1 4301.93 0.06 74240 6908.83 2192.00 11.86 21.74 21.74 0.000041 0.79 raymondviile reach 1 4853.80 0.06 raymondville 0.000045 0.86 8902.65 22.18 reach 1 74240 3161.00 11.8€ 22.18 6000,00 0.07 23.41 0.000056 1.08 15327.7 11.8 raymondville each 1 74240 7345.00 23.40 21.17 0.000048 0.80 4460.98 4231.17 0.06 74117 1373.00 11.84 21.16 raymondville reach 1 0.06 74117 2192.00 11.84 21.73 21.74 0.000041 0.80 6888.47 4301.29 reach 1 raymondville

HEC DAS Plan: P.25% 3 (Continued)

| HEC-DAS           | Plan: P. 25%                          | 3/Contin     | med)    |           |           |           |           |            |          |                  |                |              |
|-------------------|---------------------------------------|--------------|---------|-----------|-----------|-----------|-----------|------------|----------|------------------|----------------|--------------|
| River             | Reach                                 | River Sta    | Q Total | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area        | Top Width      | Froude # Chl |
|                   | 110,040,2048                          |              | (cfs)   | (ft)      | (ft)      | (ft)      | (R)       | (ft/ft)    | (tt/s)   | (sq ft)          | (ft)           | 141736       |
| raymondville      | reach 1                               | 74117        | 3161.00 | 11.84     | 22.17     |           | 22.18     | 0.000045   | 0.87     | 8877.47          | 4853.11        | 0.06         |
| raymondville      | reach 1                               | 74117        | 7345.00 | 11.84     | 23.39     |           | 23.40     | 0.000057   | 1.09     | 15287.51         | 6000.00        | 0.07         |
|                   | 3.40 M D D D D D                      |              |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 71592        | 1373.00 | 11.42     | 21.07     |           | 21.07     | 0.000049   | 0.83     | 4473.89          | 4151.08        | 0.06         |
| raymondville      | reach 1                               | 71592        | 2192.00 | 11.42     | 21.65     |           | 21.66     | 0.000041   | 0.80     | 6926.68          | 4208.72        | 0.06         |
| raymondville      | reach 1                               | 71592        | 3161.00 | 11.42     | 22.09     |           | 22.09     | 0.000048   | 0.89     | 8793.37          | 4845.21        | 0.06         |
| raymondville      | reach 1                               | 71592        | 7345.00 | 11.42     | 23.28     |           | 23.29     | 0.000062   | 1.15     | 14748.49         | 6000.00        | 0.07         |
| 4.100.5139        | 2011 TENED                            | 100          |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 69075        | 1523.00 | 11.01     | 20.90     |           | 20.91     | 0.000084   | 1.09     | 3595.95          | 3352.20        | 0.08         |
| raymondville      | reach 1                               | 69075        | 2334.00 | 11.01     | 21.53     |           | 21.53     | 0.000058   | 0.96     | 6503.87          | 4919.52        | 0.07         |
| raymondville      | reach 1                               | 69075        | 3400.00 | 11.01     | 21.95     |           | 21.96     | 0.000059   | 1.02     | 8597.86          | 4972.29        | 0.07         |
| raymondville      | reach 1                               | 89075        | 8259.00 | 11.01     | 23.10     |           | 23.11     | 0.000074   | 1.28     | 15473.67         | 6000.00        | 0.08         |
|                   | (1) 在新城市 <b>9</b> 00                  | W            |         |           |           |           |           |            |          | -                |                |              |
| raymondville      | reach 1                               | 96802        | 1523.00 | 10.64     | 20.67     |           | 20.68     | 0.000103   | 1.20     | 3488.06          | 4275.29        | 0.09         |
| raymondville      | reach 1                               | 96802        | 2334.00 | 10.64     | 21.39     |           | 21.39     | 0.000055   | 0.94     | 6915.05          | 5141.71        | 0.06         |
| raymondville      | reach 1                               | 86802        | 3400.00 | 10.64     | 21.81     |           | 21.82     | 0.000055   | 0.99     | 9100.19          | 5182,89        | 0.07         |
| raymondville      | reach 1                               | 86802        | 8259.00 | 10.64     | 22.92     |           | 22.93     | 0.000074   | 1.26     | 15607.11         | 6000.00        | 0.08         |
| 260.00 000000     | 5 72 - 17 88-19:073                   | 19 M 17 P    |         |           |           |           |           | 0.000014   | 1.20     | 13007,77         | 0000,00        | 0.00         |
| raymondville      | reach 1                               | 84902        | 1523.00 | 10.31     | 20.38     |           | 20.39     | 0.000208   | 1.67     | 2082.80          | 3884.10        | 0.40         |
| raymondville      | reach 1                               | 64802        | 2334.00 | 10.31     | 21.25     |           | 21.28     | 0.000200   | 1.12     | 5957.07          |                | 0.12         |
| raymondville      | reach 1                               | 64802        | 3400.00 | 10.31     | 21.68     |           | 21.68     | 0.000077   | 1.13     |                  | 5435.72        | 0.08         |
| raymondville      | reach 1                               | 84802        | 8259.00 | 10.31     | 22.75     |           |           |            |          | 8266.24          | 5477.19        | 0.08         |
|                   | 10 No. 300                            |              | 0238,00 | 10.31     | 22.75     |           | 22.76     | 0.000091   | 1.40     | 14541.25         | 6000.00        | 0.09         |
| raymondville      | reach:1                               | 82802        | 1523.00 | 9.98      | 40.00     |           |           | 0.00000    |          |                  |                |              |
| raymondville      | reach 1                               | 62802        | 2334.00 | 9.98      | 19.88     |           | 19.95     | 0.000236   | 2.14     | 713,05           | 93.65          | 0.14         |
| raymondville      | reach 1                               | 62802        |         |           | 21.10     | +         | 21.11     | 0.000077   | 1.13     | 6248.46          | 6000.00        | 0.08         |
| raymondville      |                                       |              | 3400.00 | 9.98      | 21.54     |           | 21.54     | 0.000067   | 1.09     | 8885,24          | 6000.00        | 0.07         |
| THEFT             | reach 1                               | 62802        | 8259.00 | 9.98      | 22.58     |           | 22.58     | 0.000083   | 1.34     | 15118.68         | 5000.00        | 0.08         |
| raymondville      |                                       | F4400        | 4500.50 |           |           |           |           |            |          |                  |                |              |
|                   | reach 1                               | 61180        | 1523.00 | 9.65      | 19.39     |           | 19.46     | 0.000251   | 2.18     | 697.68           | 92.98          | 0.14         |
| raymondville      | reach 1                               | 61180        | 2334.00 | 9.65      | 20.73     |           | 20.82     | 0.000301   | 2.57     | 1622.71          | 2281.54        | 0.16         |
| raymondville      | reach 1                               | 81180        | 3400.00 | 9.65      | 21.16     |           | 21.25     | 0.000478   | 2.75     | 2885.33          | 3500.33        | 0.19         |
| raymondville      | reach 1                               | 81180        | 8259.00 | 9.65      | 22.21     |           | 22.28     | 0.000418   | 2.84     | 8107.61          | 6000.00        | 0.18         |
|                   | n etti ile opratis in                 |              |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 61130        | 1523.00 | 9.64      | 19,37     |           | 19.45     | 0.000251   | 2.18     | 697.44           | 92.97          | 0.14         |
| raymondville      | reach 1                               | 81130        | 2334.00 | 9.64      | 20.72     |           | 20.82     | 0.000302   | 2.58     | 1605.85          | 2258.01        | 0.18         |
| raymondville      | reach 1                               | 61130        | 3400.00 | 9.64      | 21.15     |           | 21.23     | 0.000494   | 2.79     | 2822.12          | 3445.04        | 0.19         |
| raymondville      | reach 1                               | 61130        | 8259.00 | 9.64      | 22.18     |           | 22.23     | 0.000441   | 2.91     | 7922.05          | 6000.00        | 0.19         |
| 1 1 2 2 7 1 1 1 1 | 10:10:1:1:1                           | 1 + 10, 111  |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 60777        | 1523.00 | 9.58      | 19.28     |           | 19.38     | 0.000254   | 2.19     | 694.70           | 92.88          | 0.14         |
| raymondville      | reach 1                               | 60777        | 2334.00 | 9.58      | 20.71     |           | 20.73     | 0.000126   | 1.42     | 5045.78          | 6000.00        | 0.10         |
| raymondville      | reach 1                               | 50777        | 3400.00 | 9.58      | 21.13     |           | 21.14     | 0.000104   | 1.34     | 7527.90          | 6000.00        | 0.09         |
| raymondvítle      | reach 1                               | 60777        | 8259.00 | 9.58      | 22.14     |           | 22.15     | 0.000116   | 1.55     | 13574.23         | 6000.00        | 0,10         |
| 1 2 Q. S. S. S.   |                                       | 10 to 11 at  |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 58786        | 1523.00 | 9.26      | 18.75     |           | 18.83     | 0.000276   | 2.28     | 675.18           | 92.02          | 0.15         |
| raymondville      | reach 1                               | 58786        | 2334.00 | 9.26      | 20.22     |           | 20.30     | 0.000421   | 2.50     | 2085.83          | 6000.00        |              |
| raymondville      | reach 1                               | 58786        | 3400.00 | 9.26      | 20.84     |           | 20.88     | 0.000188   | 1.78     | 5832.95          | 6000.00        | 0.12         |
| raymondville      | reach 1                               | 58786        | 8259.00 | 9.26      | 21.65     |           | 21.87     | 0.000168   | 1.85     | 11920.62         | 6000.00        | 0.12         |
| Ngarit, William   | 0 - 10 - 10 Sec. 2007                 |              |         |           |           | -         |           |            |          |                  | 5555,65        |              |
| raymondville      | reach 1                               | 58898        | 1523.00 | 8,92      | 18.14     |           | 18.22     | 0.000307   | 2.34     | 650.24           | 90.93          | 0.15         |
| raymondville      | reach 1                               | 58696        | 2334.00 | 8.92      | 19.21     |           | 19.38     | 0.000478   | 3.11     | 750.11           | 95.22          | 0.20         |
| raymondville      | reach 1                               | 56898        | 3400.00 | 8.92      | 19.86     | 13.85     | 20,13     | 0.000808   | 4.18     | 812.53           | 97.81          | 0.26         |
| raymondville      | reach 1                               | 56696        | 8259.00 | 8.92      | 21.26     | - 10.00   | 21.32     | 0,000449   | 2.92     | 8322.45          | 6000.00        |              |
|                   |                                       | 1            | 0230.50 | 0.02      | 21.20     |           | 21.02     | 0.000-10   |          | WZZ.43           | 0000.00        | 0.19         |
| raymondville      | reach 1                               | 58844        | 1523.00 | 8.91      | 18.12     |           | 18.21     | 0.000308   | 2.34     | 640.60           | 00.00          | 0.45         |
| raymondville      | reach 1                               | 56844        | 2334.00 | 8.91      | 19.19     |           | 19.34     | 0.000308   | 3.12     | 549.68           | 90.90          | 0.15         |
| raymondville      | reach 1                               | 50844        | 3400.00 | 8.91      | 19.19     |           | 20.10     | 0.000481   | 4.20     | 748.61<br>810.05 | 95.16<br>97.71 | 0.20         |
|                   | reach 1                               | ****         |         |           |           |           |           |            |          |                  | -              | 0.26         |
| TAYTED TOVERS     | (Part )                               | 50044        | 8259.00 | 8.91      | 21.24     |           | 21.29     | 0.000474   | 2.99     | 8149.25          | 6000.00        | 0.19         |
| raymondville      | reach 1                               | 56168.2*     | 1523.00 | 8.83      | 17.97     |           | 40.00     | 0.000317   | 0.07     |                  |                |              |
| raymondville      | reach 1                               | 56166.2"     | 2334.00 | 8.83      |           |           | 18.08     |            | 2.37     | 643.23           | 90.61          | 0.16         |
| raymondville      | reach 1                               | 58188.2*     | 3400.00 |           |           |           | 19.11     | 0.000421   | 2.90     | 1226.49          | 1013.74        |              |
| raymondville      | reach 1                               |              |         | 8.83      |           |           | 19.75     |            | 3.28     | 2000.06          | 1344.47        | 0.20         |
| - ANNION KIVER    | potent i                              | 56166.2*     | 8259.00 | 8.83      | 21.04     |           | 21.08     | 0.000392   | 2.70     | 8591.92          | 6000.00        | 0.18         |
| raymondville      | and a                                 | 55.52        | 4500.55 |           |           |           | 1.5       | -          |          |                  |                |              |
|                   | reach 1                               | 55688.5*     | 1523.00 | 8.75      |           |           | 17.93     |            | 1.82     | 1531.29          | 997.35         |              |
| raymondville      | reach 1                               | 55688.5*     | 2334.00 | 8.75      |           |           | 18.98     |            | 1.73     |                  |                |              |
| raymondville      | reach 1                               | 55688.5*     | 3400.00 | 8.75      |           |           | 19.59     |            | 1.94     | 3688.78          | 2856.91        |              |
| raymondville      | reach 1                               | 55688.5°     | 8259.00 | 8.75      | 20.90     |           | 20.93     | 0.000251   | 2.15     | 9446.30          | 5566.84        | 0.14         |
|                   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |              |         |           | ļ.—       |           |           |            |          | <b></b>          |                |              |
| raymondville      | reach 1                               | 55210.7°     | 1523.00 | 8.67      | 17.87     |           | 17.88     |            | 1.02     | 3038.78          |                |              |
| raymondville      | reach 1                               | 55210.7      | 2334.00 | 8.67      |           |           | 18.94     | 0.000050   | 1.00     |                  | 1346.39        |              |
| raymondville      | reach 1                               | 55210,7*     | 3400.00 | 8,67      |           |           | 19.54     | 0.000066   | 1.19     |                  | 3313.50        |              |
| raymondville      | reach 1                               | 55210.7*     | 8259.00 | 8.67      | 20.82     |           | 20.83     | 0.000148   | 1.65     | 11063.88         | 4720.66        | 0.11         |
|                   | 1 1 1 7 7 1 1 1 2 2                   | Tage 11 to 1 |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 54739        | 1595.00 | 8.59      |           | 11.78     | 17.80     |            | 2.49     |                  |                |              |
| raymondville      | reach 1                               | 54733        | 2441.00 | 8.59      | 18.70     | 12.65     | 18.87     | 0.000580   | 3.33     | 732.66           | 94,48          | 0.21         |
| raymondville      | reach t                               | 54733        | 3554.00 | 8.59      | 19.09     | 13.65     | 19.42     | 0.001028   | 4.61     | 770.18           | 96.06          | 0.29         |
| raymondville      | reach 1                               | 54733        | 8653.00 | 8.59      | 20.46     | 17.13     | 20.65     | 0.001322   | 4.83     | 4853.99          | 4363.83        | 0.32         |
|                   |                                       | (44)         |         |           |           |           |           |            |          |                  |                |              |
| raymondville      | reach 1                               | 54238.*      | 1595.00 | 8.51      | 17.52     |           | 17.62     | 0.000372   | 2.52     | 633.08           | 148.41         | 0.17         |
| raymondville      | reach 1                               | 54238.*      | 2441.00 | 8.51      |           |           | 18.58     |            |          |                  |                |              |
| raymondville      | reach 1                               | 54238.*      | 3554.00 | 8.51      |           |           | 18.95     |            |          | 2320.09          | 2081.97        |              |
| raymondville      | reach 1                               | 54238.*      | 8653.00 | 8.51      |           |           | 20.12     |            |          |                  |                |              |
|                   | 1 199                                 |              |         |           |           |           |           | 1          |          |                  |                |              |
|                   |                                       |              |         |           |           |           |           |            |          |                  |                |              |

HEC DAS Plan P 25% 3 (Continued) River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Flow Area E.G. Slope Vel Chnl. Top Width Froude # Chi (cls) (h) (ft) (ft) (fVft) (ft/a) (aq ft) (ft) raymondville 53743. reach 1 1595,00 8.43 17 45 17.4 0.000193 1.57 2027.16 1689.74 0.12 raymondville reach 1 53743. 2441.00 B 43 18.44 18.45 0.000114 1.35 3963.37 2181,47 0.09 raymondvilla 3554.00 8.43 18.76 18 78 0.000162 1.66 4686.39 2307.36 0.11 each i 59743. 8653.00 8.43 19.82 19.86 0.000321 2809.45 0.16 raymondville reach t 5324R ' 1595.00 8,35 17.43 17.44 0.000040 0.77 4375.88 2114.45 0.05 raymondville reach 1 53248.\* 2441.00 8.35 18.43 18.43 0.000031 0.76 6615.57 2382 20 0.05 raymondville reach 1 53248. 3554 00 8.35 18.74 18.74 0.000049 0.98 7360.59 2462.37 0.06 raymondville each 1 53248. 8653.00 8.35 19.74 19.76 0.000134 1.75 10105.43 2910,26 0.11 raymondville woh i 52753 1374.00 8,27 17.42 17 42 0.000008 0.38 7001.45 2285.26 0.03 raymondville reach 1 52753 2022.00 8.27 18.42 18.42 0.000008 0.42 9437,44 2644.55 0.03 raymondville reach 1 52753 3078.00 8.27 18,72 18.73 0.000015 0.58 10262 22 2734.27 0.04 raymondville reach 1 52753 8064.00 8.27 19.71 19.72 0.000055 1.18 13098.82 3021.44 0.07 raymondville 52344.3 1374.00 8.20 17 41 17.41 0.000014 0.46 5838.59 2280.46 0.03 caymondville 2022.00 8.20 18 41 18 41 0.000012 0.48 8359.45 2669.85 0.03 unch 1 52344.3 3078.00 8.20 18.71 18.72 0.000022 0.66 9189.18 2757.25 0.04 raymondvilla reach 1 50944 31 8.20 19.68 19.69 0.000072 1.30 11989 17 3055.42 0.08 17.39 reach 1 51935.7 1374 00 B.13 17.40 0.000024 0.57 4836.44 2287.74 0.04 raymondville reach 1 18,40 51935.7\* 2022.00 8.13 18.40 0.000017 0.54 7312.97 2651.04 0.04 raymondville ech 1 51935.7 3078.00 8.13 18 69 18.70 0.000030 0.74 B115.23 2745.94 0.05 raymondville 51935.7\* 8064.00 8.13 19.64 19.65 0.000097 1.43 10851.69 3083.04 0.09 raymondville reach 1 51527 1\* 1374 00 8.07 17.38 0.000035 0.64 4129 82 1896 37 0.05 raymondville reach 1 51527.1\* 2022.00 8.07 18.39 18.39 0.000024 0.60 8332.95 2506.81 0.04 raymondville reach 1 51527.1\* 3078.00 8.07 18.68 18.68 0.000042 7078.40 0.81 2654.63 0.06 raymondville reach 1 51527.1\* 8064.00 8.07 19.58 19.59 0.000132 1.59 9681.03 3105.94 0.10 raymondville nach 1 51118,5 1374.00 17.37 8.00 17.37 0.000027 0.69 4095.15 1581.43 0.05 raymondville reach 1 51118.5 2022.00 8.00 18.36 18.38 0.000024 0.69 5834.30 1826.38 0.04 raymondville reach 1 511185 3078.00 8.00 18.66 18,68 0.000044 0.95 6354.22 1889.99 0.06 raymondville reach 1 51118.5 8084,00 8.00 19.51 19.53 0.000175 8498.56 1.71 3006.49 0.12 raymondville each 1 1374.00 50710 7.93 17.27 10.84 17.33 0.000239 2.08 660,86 91.39 0.14 raymondville each 1 50710 2022.00 7.93 18.22 11.57 18.33 0.000359 2.70 750.06 95.22 0.17 raymondville mach 1 50710 3078.00 7.93 18.34 12.60 18.59 0.000798 4.04 761 02 95.68 0.25 raymondville reach 1 50710 8064.00 7.93 19.44 16.12 19.46 0.000166 1.96 7973.44 2103.47 0.12 raymondville reach f 50308.01 1374.00 7.86 17.16 10.77 17.23 0.000242 657.73 2.09 91.25 0.14 each 1 raymondville 50308.01 2022.00 7.86 18 07 11.50 18.18 0.000370 741.98 2.73 94.87 0.17 raymondville reach 1 50308.0 3078.00 7.86 18.46 12.53 18.47 0.000048 6207.24 1924.41 0.06 raymondville 50308.0 each 1 8064.00 7.86 19.37 16.05 19.39 0.000165 8062.63 2133.55 0.12 raymondville each 1 49906.0\* 1374.0 7.60 17.06 17.13 10.71 0.000246 2.10 653.88 91.08 0.14 raymondville reach 1 49906.0\* 2022.00 7.80 17.90 11.44 18,02 0.000385 2.76 732.16 94.46 0.17 raymondville each 1 49906.0\* 3078 00 7.80 16.44 12.47 18.45 0.000046 6363.93 0.98 1995.82 0.06 raymondville ach 1 49906.0\* 8064.00 7.80 19.30 15.99 19.32 0.000167 1.96 8172.46 2237.54 0.12 each 1 raymondville 49504.0\* 1374.00 7.73 16.96 10.64 17.03 0.000249 2 11 650 77 90.95 0.14 raymondville mach t 49504.0\* 2022.00 7.73 17.74 11.37 17.86 0.000399 2.80 723.15 94.08 0.18 raymondville reach 1 49504.0\* 3078.00 7.73 18.42 12,40 18,43 0.00004 6344.53 0.94 2052.70 0.06 raymondville reach 1 49504 0\* 8064 00 7.73 19.23 15,92 19.26 0.000170 B331.04 1.97 2395.84 0.12 raymondville reach 1 49102.01 1374.00 7.67 647.03 16.85 10.5B 16.92 0.000254 2.12 0.14 raymondville reach 1 49102.0\* 2022.00 7.67 17.56 11.31 17.69 0.000416 2.84 712.61 93.64 0.18 raymondville reach 1 49102.0 3078.00 7.67 18.32 12,34 18.39 0.000294 2.49 2227,20 2151.98 0.15 raymondville reach 1 49102.0 8064.00 7.67 19.17 15.86 19.18 0.000177 1,66 8512,70 2495.93 0.12 raymondville reach 1 48700 1374.00 7.60 16.75 10.51 16.82 0.000257 2.13 643,86 90.65 0.14 raymondville reach 1 48700 2022.00 7.60 17.39 11.24 17.52 0.000433 2.88 702.70 93.2 0.18 raymondville 48700 3078.00 7.60 17.92 12.27 18.18 0.000822 4 09 753 17 95.35 0.26 raymondville reach 1 48700 8064.00 7.60 19.10 15.79 19.11 0.000167 1.62 8700.23 2509.42 0.11 raymondville reach 1 ARSIE E 1374.00 7.57 16.70 10.48 16.77 0.00025 642.13 2.14 90.58 0.14 raymondville reach 1 48516.6 2022.00 7.57 17.30 11.21 17.43 0.000442 2.90 697.43 92.99 0.19 raymondville reach 1 48516.6 3078.00 7.57 17.75 12.24 18.02 0.000866 739 87 4.16 94.79 0.26 raymondville 48516,6 8064.00 7.57 19.07 15.76 19.08 0.000169 1.65 8718.66 2564.64 0.11 raymondville nach 1 48333,3 1374.00 7.54 16.65 10.45 16.72 0.000261 640.37 2.15 90.50 0.14 raymondville reach 1 48333 3 2022.00 7.54 17.22 11.18 17.35 0.000452 692.15 2.92 92.76 0.19 raymondville reach 1 48333 31 3078 00 7.54 17.57 17.85 0.000917 724.95 4.25 94.16 0.27 raymondville reach 1 48333.31 8064.00 7.54 19.04 15.73 19.05 0.000174 1.72 8833.89 0.12 2921.27 raymondville reach 1 48150 1374.00 7.51 16.60 10.42 16.68 0.000263 2.15 638 R9 90.43 0.14 raymondville reach 1 48150 2022.00 7.51 17.13 17.27 11.15 0.000463 2.94 687.15 92 55 0.19 raymondville reach 1 48150 3078.00 7.51 17.38 17.68 12.18 0.000972 4.33 710.62 93.55 0.28 raymondville reach 1 48150 8064.00 7.5 19.0 15.70 19.02 0.000170 1.73 9117.12 3192.52 0.12 raymondville reach t 7 43 47686 1374.00 16 47 10.34 16.55 0.000271 91.10 2.16 0.14 reach t raymondville 47686 2022.00 7.43 16.86 11 07 17.00 0.000730 2 99 676.46 2252.92 0.23 47686 3078.00 7.43 17.42 12.10 17.43 0.000151 1.45 4576.61 2375.44 0.11

HEC DAS Plan. P 25% 3 (Continued)

| HEC DAS  | Plan: P 25%   |   |  |  | ····   |                               |  | <del></del>  |  |   |  |  |
|--|---|---|--|--|--|-------------------------------|--|--|--|---|--|--|
| UlAbl  | Reach   | River Sta   | O Total  | Min Ch El  | W.S. Elev  | Crit W.S.                     | E.G. Elev  | E.G. Slope   | Vel Chril  | Flow Area   | Top Width  | Froude # Chi   |
| raymondville   | mant 1  | 47000 +   | (cfs)  | (ft).  | (ft)   | (ft)                          | (ft)   | (ft/ft)  | (fl/a)   | (8g ft)   | (ft)   | and the second   |
| TO THE RIVER   | reach 1   | 47886.*   | 8064.00  | 7.43   | 18.89  | 15.62                         | 18.91  | 0.000197   | 1.92   | 8758.99   | 3504.06  | 0.13   |
| recensed all   |   |   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 47222.*   | 1374.00  | 7.38   | 16.33  | 10.27                         | 16.40  | 0.000381   | 2.13   | 646.44  | 1926.56  | 0.16   |
| raymondville   | reach 1   | 47222.*   | 2022.00  | 7.36   | 16.79  | 11.00                         | 16,81  | 0.000164   | 1.47   | 3037.29   | 2111.18  | Đ.11   |
| raymondville   | reach 1   | 47222.*   | 3078.00  | 7.36   | 17.31  | 12.03                         | 17.33  | 0.000177   | 1.62   | 4253.07   | 2549.21  | 0.12   |
| raymendville   | reach 1   | A7222.  | 8064.00  | 7.36   | 18.77  | 18.21                         | 18.79  | 0.000213   | 2.05   | 8671.09   | 3762.05  | 0.13   |
|  | 11.20.30 St. 10.34  | 2 G S , 2" + 1  |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 40758.  | 1374.00  | 7.28   | 16.28  | 10.20                         | 16.29  | 0.000104   | 1.16   | 2273.95   | 1374.91  | 0.09   |
| raymondville   | reach 1   | 46758.*   | 2022.00  | 7.28   | 16.72  | 10.92                         | 16.74  | 0.000129   | 1.35   | 2994.68   | 1895.77  | 0.10   |
| raymondville   | reach 1   | 46756.*   | 3078.00  | 7.28   | 17.20  | 11.95                         | 17.23  | 0.000186   | 1.72   | 4090.77   | 2492.30  | 0.12   |
| raymondville   | reach f   | 46756.*   | 8064.00  | 7.28   | 18.65  | 16.02                         | 18.68  | 0.000215   | 2.11   | 8769.38   | 3737.13  | 0.13   |
| A see Seeing Con-  | . Official states   | Brent In  |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 48294.*   | 1374.00  | 7.21   | 18.24  | 10.12                         | 16.25  | 0.000087   | 0.97   | 2744.92   | 1541.02  | 0.07   |
| raymondville   | reach 1   | 48294."   | 2022.00  | 7.21   | 16.67  | 10.85                         | 16,69  | 0.000090   | 1.18   | 3448,80   | 1804.01  | 0.08   |
| raymondville   | reach 1   | 46294.*   | 3078,00  | 7.21   | 17.14  | 11.88                         | 17.15  | 0.000123   | 1.44   | 4421.92   | 2287.05  | 0.10   |
| raymondville   | reacht 1.5/A.c.   | 46294."   | 8084.00  | 7.21   | 18.54  | 15.51                         | 18.57  | 0.000211   | 2.14   | 8969.55   | 3785.08  | 0.13   |
|  |   | Company of  |  |  |  |                               |  |  |  |   | 0700.00  | 0.13   |
| raymondville   | reach t   | 45830   | 1374.00  | 7.13   | 16.22  | 10.04                         | 18.23  | 0.000040   | 0.78   | 3454.52   | 1847.36  | 0.05   |
| raymondville   | reach 1   | 45830   | 2022.00  | 7.13   | 16.64  | 10.77                         | 16.65  | 0.000057   | 0.97   | 4258.89   | 1999.72  |  |
| raymondville   | reach 1   | 45830   | 3078.00  | 7.13   | 17.09  | 11.80                         | 17.10  | 0.000085   | 1.24   | 5195.19   |  | 0.07   |
| raymondville   | reach 1   | 45830   | 8064.00  | 7.13   | 18.45  | 15.00                         | 18.47  | 0.000194   | 2.11   |   | 2379.62  | 0.08   |
| Dept. Her  | Jan Bayner  | Sec. 1  | 33333  | 7.10   | 10.43  | 15.55                         | 10.47  | 0.000194   | 2.111  | 9259.45   | 3723.64  | 0.13   |
| raymondville   | reach 1   | 45414.*   | 1374.00  | 7.06   | 16.20  | 9.97                          | 16.21  | 0.000041   | 0.80   | 0400 0  | 100  |  |
| raymondville   | reach 1   | 45414.*   | 2022.00  | 7.06   | 16.61  | 10.70                         | 16.62  | 0.000041   |  | 3438.62   | 1905.25  | 0.06   |
| raymondville   | reach 1   | 45414."   | 3078.00  | 7.06   |  | 11.73                         |  |  | 0.99   | 4264.67   | 2081.22  | 0.07   |
| raymondville   | reach 1   | 45414.*   | 8064.00  | 7.06   | 17.05  | 15.00                         | 17.08  | 0.000085   | 1.25   | 5194.08   | 2278.33  | 0.08   |
|  |   |   | 3004.00  | 7.06   | 18.38  | 15.00                         | 18.40  | 0.000180   | 2.03   | 9546,92   | 3778.25  | 0.12   |
| raymondville   | reach 1   | 44996."   | 1374.00  | 2.00   | 10.10  |                               | ,,,,   |  |  |   |  |  |
| raymondville   | reach 1   | 44996.*   | 2022.00  | 6.99   | 16.18  | 9.90                          | 16.19  | 0.000045   | 0.83   | 3451.32   | 2021.94  | 0.08   |
| raymondville   | reacht 1  | 44996.*   |  | 6.99   | 16.58  | 10.63                         | 16.59  | 0.000060   | 1.00   | 4287.30   | 2118.54  | 0.07   |
| raymondville   | reach 1   | 44998."   | 3078.00<br>8064.00   | 6.99   | 17.01  | 11.66                         | 17.03  | 0.000095   | 1.32   | 5293.49   | 2711.20  | 0.09   |
| TOYTHOTOTHE  | (COLIT  | 44666.  | 8084.00  | 6.99   | 18.31  | 15.00                         | 18.33  | 0.000169   | 1.98   | 9892.28   | 4200.87  | 0.12   |
| raymondville   | reach 1   | 44880 0   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   |   | 44582   | 1374.00  | 6.93   | 16.15  | 9.84                          | 18.18  |  | 0.85   | 3471.22   | 2095.31  | 0.06   |
| raymondville   | reach 1   | 44582.*   | 2022.00  | 6.93   | 18.55  | 10.57                         | 16.58  | 0.000072   | 1.10   | 4402.20   | 2697.20  | 0.07   |
|  | reach 1   | 44582.*   | 3078.00  | 6.93   | 16.98  | 11.60                         | 16.99  | 0.000094   | 1.31   | 5593.74   | 2890.41  | 0.09   |
| raymondville   | reach 1   | 44582.*   | 8064.00  | 6.93   | 18.25  | 15.00                         | 18.27  | 0.000157   | 1.89   | 10678.60  | 4439.19  | 0,11   |
|  |   |   |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach 1   | 44166.*   | 1374,00  | 6.86   | 16.12  | 9.77                          | 16.13  | 0.000054   | 0.92   | 3611.94   | 2715.06  | 0.08   |
| raymondville   | reach 1   | 44166.*   | 2022.00  | 6.86   | 16.52  | 10.50                         | 16.53  | 0.000063   | 1.03   | 4718.69   | 2810.80  | 0.07   |
| raymondville   | reach f   | 44186.*   | 3078.00  | 6.86   | 16.94  | 11.53                         | 16.95  | 0.000081   | 1.22   | 6077.21   | 3762.04  | 0.08   |
| raymondville   | reach 1   | 44166.*   | 8064.00  | 6.86   | 18.21  | 15.00                         | 18.22  | 0.000125   | 1.68   | 11533.62  | 4438.98  | 0.10   |
| Araba and a  |   | 3/00/1  |  |  |  |                               |  |  |  |   |  |  |
| raymondville   | reach t   | 43750   | 1374.00  | 6.79   | 16.09  | 9.70                          | 18.10  | 0.000045   | 0.84   | 4023.86   | 3410.61  | 0.06   |
| raymondville   | reach 1   | 43750   | 2022.00  | 6.79   | 16.49  | 10.43                         | 18.50  | 0.000051   | 0.93   | 5422.08   | 3609.95  | 0.06   |
| raymondville   | reach 1   | 43750   | . 3078.00  | 6.79   | 16.90  | 11.48                         | 16.91  | 0.000071   | 1.14   | 6962.88   | 3997.63  | 0.08   |
| raymondville   | reach 1   | 43750   | 8064,00  | 8.79   | 18.16  | 15.00                         | 18.17  | 0.000100   | 1.51   | 12391.28  | 4439.00  | 0.09   |
| 1. 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19   | the wall see you've as gas  |   |  |  |  |                               |  |  |  |   |  |  |
| rzymondville   | reach 1   | 43313.8*  | 1374.00  | 6.72   | 16.06  |                               | 16.07  | 0.000081   | 0.96   | 3515.08   | 3339.70  | 0.07   |
| reymondville   | reach 1   | 43313.81  | 2022.00  | 6.72   | 16.46  |                               | 16.47  | 0.000067   | 1.05   | 4917.35   | 3887.51  | 0.07   |
|  | reach 1   | 43313.6*  | 3078.00  | 6.72   | 16.87  |                               | 16.88  | 0.000086   | 1.24   | 6493.11   | 3976.92  | 0.08   |
| raymondville   | reach i   | 43313.6*  | 8064.00  | 6.72   | 18.11  |                               | 18.12  | 0.000115   | 1.60   | 11864.66  | 4447.88  | 0.10   |
| 11 1971 14   | teres in the second   | A second  |  |  |  |                               |  |  |  |   |  | 1,110  |
| raymondville   | reach 1   | 42877.2*  | 1374.00  | 6.65   | 16.02  |                               | 16.03  | 0.000086   | 1.12   | 2988.81   | 3365.85  | 0.08   |
| raymondville   | reach 1   | 42877.2*  | 2022.00  | 6.65   | 16.42  |                               | 16.43  | 0.000098   | 1.24   | 4426.09   | 3806.35  | 0.09   |
| raymendville   | reach 1:  | 42877.2*  | 3078.00  | 6.65   | 16.82  |                               | 16.83  | 0.000107   | 1.36   | 5965.40   | 3938.56  | 0.09   |
| raymondville   | reach 1   | 42877.2"  | 8064.00  | 6.65   | 18.05  | -                             | 18.07  | 0.000134   | 1.70   | 11303.40  | 4472.53  | 0.09   |
| 1 1 1 1  | - 7 W S   | Silva,  |  |  |  |                               |  |  |  |   |  | V.11   |
| raymondville   | reach 1   | 42440.8*  | 1374.00  | 6.57   | 15.96  |                               | 15.98  | 0.000129   | 1.35   | 2443.97   | 3181.72  | 0.10   |
| raymondville   | reach 1   | 42440.8*  | 2022.00  | 6.57   | 16.36  |                               | 16.38  | 0.000125   | 1.39   | 3906.08   | 3723.69  | 0.10   |
| raymondville   | reach 1   | 42440.8°  | 3078.00  | 6.57   | 18.76  |                               | 16.77  | 0.000138   | 1.52   | 5392.25   | 3847.58  | 0.10   |
| raymondville   | reach 1   | 42440.8*  | 8064,00  | 6.57   | 17.99  |                               |  |  | 1.02   | 10704.22  | 4525.97  | 0.10   |
| 10,000,000   |   |   | 0004,001   |  | 17.331   |                               | 18.00  | 0.0001591  | 1 82   |   |  | 0.11   |
| The Manager of the Control of the Co | 사람들이 그 기가 있다.   | # 3-7 C   | 5004.00  |  | 17.33  |                               | 18.00  | 0.000159   | 1.83   | 10704.22  |  | 0.11   |
| raymondville   | reach i   | 42004.4*  | 1374.00  |  |  | -                             |  |  |  |   |  | Ų.11   |
| raymondville<br>raymondville   | reach 1<br>reach 1  | gazini ili  | 1374.00  | 6.50   | 15.68  | -                             | 15.91  | 0.000171   | 1.52   | 1911.60   | 2607.27  | 0 44   |
|  |   | 42004.4*  | 1374.00<br>2022.00   | 6.50<br>6.50   | 15. <b>88</b><br>16.30   |                               | 15.91<br>16.32   | 0.000171<br>0.000172   | 1.52<br>1.60   | 1911.60<br>3340.83  | 2607.27<br>3696.67   | 0.11   |
| raymondville   | reacht 1  | 42004.4°<br>42004.4°  | 1374.00<br>2022.00<br>3078.00  | 6.50<br>6.50<br>6.50   | 15.88<br>16.30<br>16.68  |                               | 15.91<br>16.32<br>16.70  | 0.000171<br>0.000172<br>0.000184   | 1.52<br>1.60<br>1.72   | 1911.60<br>3340.83<br>4764.16   | 2607.27<br>3696.67<br>3749.99  | 0.12   |
| raymondville<br>raymondville   | reach 1   | 42004.4°<br>42004.4°<br>42004.4°  | 1374.00<br>2022.00   | 6.50<br>6.50   | 15. <b>88</b><br>16.30   |                               | 15.91<br>16.32   | 0.000171<br>0.000172<br>0.000184   | 1.52<br>1.60   | 1911.60<br>3340.83  | 2607.27<br>3696.67   |  |
| raymondville<br>raymondville   | reach 1:<br>reach 1:  | 42004.4°<br>42004.4°<br>42004.4°<br>42004.4°  | 1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50   | 15.68<br>16.30<br>16.58<br>17.90   |                               | 15.91<br>16.32<br>16.70<br>17.93   | 0.000171<br>0.000172<br>0.000184<br>0.000205   | 1.52<br>1.60<br>1.72<br>2.04   | 1911.60<br>3340.83<br>4764.16<br>10209.39   | 2607.27<br>3696.67<br>3749.99<br>5430.43   | 0.12<br>0.13   |
| raymondville<br>raymondville<br>raymondville   | reach 1   | 42004.4°<br>42004.4°<br>42004.4°  | 1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50   | 15.88<br>16.30<br>16.68<br>17.90   |                               | 15.91<br>16.32<br>16.70<br>17.93   | 0.000171<br>0.000172<br>0.000184<br>0.000205   | 1.52<br>1.60<br>1.72<br>2.04   | 1911.60<br>3340.83<br>4764.18<br>10209.39   | 2607.27<br>3696.67<br>3749.99<br>5430.43   | 0.12<br>0.13<br>0.13   |
| raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41588  | 1374.00<br>2022.00<br>3078.00<br>8064.00<br>1374.00<br>2022.00   | 6.50<br>6.50<br>6.50<br>6.50<br>8.43<br>6.43   | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19   |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91   | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98   | 0.12<br>0.13<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00  | 6.50<br>6.50<br>6.50<br>8.50<br>8.43<br>6.43<br>6.43   | 15.68<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57  |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000263   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02   | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39  | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29  | 0.12<br>0.13<br>0.13<br>0.14<br>0.14   |
| raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41588  | 1374.00<br>2022.00<br>3078.00<br>8064.00<br>1374.00<br>2022.00   | 6.50<br>6.50<br>6.50<br>6.50<br>8.43<br>6.43   | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19   |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91   | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98   | 0.12<br>0.13<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1<br>reach 1<br>reach 1<br>reach 1<br>reach 1<br>reach 1  | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43   | 15.88<br>16.30<br>16.58<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82                                     |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61  | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000263<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05                                 | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65  | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3656.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43   | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82                                     |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84                                     | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05                                 | 1911.60<br>3340.83<br>4754.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65  | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13   |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43                                 | 15.88<br>16.30<br>16.88<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02                   |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84                                     | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70                         | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65<br>4946.33   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.08                                 |
| reymondville reymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>39543<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43                                 | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.02          |                               | 15.91<br>18.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02                   | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000268<br>0.000263<br>0.000264   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71                 | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4669.39<br>10591.65<br>4946.33<br>7030.19<br>9241.57                       | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.09<br>0.09                         |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1   | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543                                     | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00   | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.43                                 | 15.88<br>16.30<br>16.88<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02                   |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84                                     | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214   | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70                         | 1911.60<br>3340.83<br>4764.18<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65<br>4946.33   | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.09<br>0.09                         |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                                 | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543<br>39543<br>39543<br>39543          | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00            | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10                         | 15.88<br>16.30<br>16.58<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.02<br>17.62 |                               | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63          | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000283<br>0.000284<br>0.000055<br>0.000050<br>0.000050                                     | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77         | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.65<br>4946.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.06<br>0.06<br>0.07                 |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                 | 42004.4*<br>42004.4*<br>42004.4*<br>42004.4*<br>41568<br>41568<br>41568<br>41568<br>39543<br>39543<br>39543<br>39543<br>39543 | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10                 | 15.88<br>16.30<br>16.58<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 8.62                          | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63 | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000054                         | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77         | 1911.60<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4948.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00<br>6000.00                                  | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.13<br>0.08<br>0.09<br>0.09                 |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 42004.4° 42004.4° 42004.4° 42004.4° 41568 41568 41568 39543 39543 39543 37135   | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>5.71                 | 15.88<br>16.39<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9.34                          | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63          | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000258<br>0.000254<br>0.000050<br>0.000050<br>0.000054                         | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>6000.00<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.14<br>0.08<br>0.09<br>0.09<br>0.09<br>0.09 |
| reymondville raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                                 | 42004.4* 42004.4* 42004.4* 42004.4* 41588 41588 41588 39543 39543 39543 37135 37135   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>6.10<br>5.71<br>5.71 | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9. <b>34</b><br>10. <b>37</b> | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63 | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000061<br>0.000061<br>0.000061 | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>6464.98<br>8452.46 | 2807.27<br>3696.87<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00<br>6000.00<br>4749.40<br>5104.82<br>5378.79 | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.06<br>0.06<br>0.06<br>0.07<br>0.07 |
| raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville raymondville   | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 42004.4° 42004.4° 42004.4° 42004.4° 41568 41568 41568 41568 39543 39543 39543 37135   | 1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>5.71                 | 15.88<br>16.39<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9.34                          | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63          | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000061<br>0.000061<br>0.000061 | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>16639.27           | 2607.27<br>3696.67<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>6000.00<br>6000.00   | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.14<br>0.08<br>0.09<br>0.09<br>0.09<br>0.09 |
| raymondville  | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                                 | 42004.4* 42004.4* 42004.4* 42004.4* 41588 41588 41588 39543 39543 39543 37135 37135   | 1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8064,00<br>1374,00<br>2022,00<br>3078,00<br>8084,00 | 6.50<br>6.50<br>6.50<br>6.50<br>6.50<br>6.43<br>6.43<br>6.43<br>6.10<br>6.10<br>6.10<br>6.10<br>5.71<br>5.71 | 15.88<br>16.30<br>16.68<br>17.90<br>15.79<br>16.19<br>16.57<br>17.82<br>15.62<br>16.02<br>16.39<br>17.62 | 9. <b>34</b><br>10. <b>37</b> | 15.91<br>16.32<br>16.70<br>17.93<br>15.83<br>16.23<br>16.61<br>17.84<br>15.62<br>16.02<br>16.39<br>17.63 | 0.000171<br>0.000172<br>0.000184<br>0.000205<br>0.000219<br>0.000258<br>0.000283<br>0.000214<br>0.000050<br>0.000050<br>0.000061<br>0.000061<br>0.000061 | 1.52<br>1.60<br>1.72<br>2.04<br>1.68<br>1.91<br>2.02<br>2.05<br>0.70<br>0.71<br>0.77<br>0.98 | 1911.80<br>3340.83<br>4764.16<br>10209.39<br>1494.90<br>2648.11<br>4069.39<br>10591.85<br>4946.33<br>7030.19<br>9241.57<br>6464.98<br>8452.46 | 2807.27<br>3696.87<br>3749.99<br>5430.43<br>2007.64<br>3658.98<br>3721.29<br>6000.00<br>5100.58<br>6000.00<br>6000.00<br>4749.40<br>5104.82<br>5378.79 | 0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.06<br>0.06<br>0.06<br>0.07<br>0.07 |

HEC\_DAS\_Plan: P\_25% 3 (Continued)
River Reach River \$ta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chf (cfa) (ft) (ff) (ft) (10) (fVft) (fl/a) (ag ft) raymondville reach 1 34845 2255.00 5.33 15.8 4499.80 4727.52 0.10 raymondvilla reach t 34845 2858 00 5 33 16.16 16.17 0.000108 1.32 6063.59 0.09 raymondville reach 1 34845 7234 00 5.33 17.31 17.3 0.000120 1.54 12152.38 6000.00 0.10 raymondville reach 1 34788 1714.00 15.38 15.42 0.000242 2317 11 5.32 1 81 4556 48 0.13 raymondville reach 1 34788 2255.00 5.32 15,82 15.84 0.000145 1.48 4335.59 4722.59 0.10 raymondville reach 1 34790 2856.00 5.32 16.16 0.000114 16.15 1.36 591B.32 4853.13 0.09 raymondville ech 1 34786 7234.00 5.32 17.31 17.30 0.000123 1.57 11999.30 6000.00 0.10 32585 raymondville reach 1 1714.00 4.96 14 67 14 74 0.000408 2 2R 1043.70 1133.11 0.17 raymondville reach i 2255.00 4 98 15.39 15 43 0.000246 1 92 2999.29 3852.55 0.14 raymondville reach 1 2856,00 4.96 15.85 15.87 0.000155 1.60 4837.07 4106 89 0.11 raymondville reach 1 7234.00 4,96 16,99 17.01 0.000157 1.79 10782.18 5487.96 0.11 raymondville raach 1 30544 1714 00 13.93 4.63 13.82 0.000393 2.65 651.73 114.58 0.17 0.000475 raymondviše reach 1 30584 2255.00 4 63 14.61 14.75 3.05 912.78 898.14 0.19 2048.00 raymondville reach 1 30564 2856.00 4.63 15.25 15.37 0.000441 3.04 3095.80 0.19 raymondville reach 1 7234.00 4.63 16.54 18.57 0.000304 2.31 8886.27 6000.00 0.15 raymondville reach 1 29170 4.40 13.22 13.34 0.000459 613.82 89.31 0.19 2.79 raymondville mach 1 2255.00 29170 13.81 13.99 3.38 668.09 91.71 0.22 0.000830 *r*aymondville reach t 29170 2856 00 4.40 14.30 14.55 4.0 712.64 93.63 0.26 raymondville reach 1 29170 7234.00 4,40 15.99 16.07 0.000612 3.24 6748.65 6000.00 0.22 raymondville reach 1 26867.7 1714.00 4.35 13.07 13.18 0.000482 2.83 605.36 89.47 0.19 rzymondville 2255.00 4.35 13,61 13.79 0.000669 654.05 3.45 91.93 0.23 raymondville reach 1 28867 7° 2856.00 4.35 14.02 14.28 4.10 744.36 444.14 0.27 raymondville 0.000690 each 1 28867.7\* 7234.00 4.35 15.80 15.89 6258.86 6000.00 0.23 raymondville reach I 28565.5\* 1714.00 4.30 12 92 13 04 0.000497 283 885 41 316.05 n 10 raymondville 28565.5 reach 1 2255.00 0,000888 4.30 13.40 13.55 3.24 889.85 549.79 0.25 2856.DC 4.30 13.80 13.97 0.000980 3.56 1127.59 630.05 0.27 raymondville 28565.5\* reach 1 15.58 15.69 0.00074 3,70 5712.11 5784.1 0.24 raymondville reach 1 26263.2\* 1714 00 4.25 12 81 12 R 0.000466 2.31 1071.21 576.7 0.18 raymondville reach 1 26263.2 2255.00 4.25 13.24 13.32 0.000525 2.57 1331.63 633 B 0.19 raymondville reach 1 28263.21 2856.00 4.25 13.62 13.72 0.000606 2.87 1589.04 750 20 0.21 28263.21 raymondville reach 1 7234.00 4.25 0.000717 15.37 15.48 3.70 5485.70 5192.44 0.24 raymondville reach 1 27961 1714.00 4.20 12.74 12.77 0,000235 1.70 1570.27 639.60 0.13 0.000290 raymondville teach 1 27981 2255.00 4.20 13.16 13.20 1.98 746.39 0.15 raymondville reach 1 27961 2856.00 4.20 13.52 13.57 0.000338 2 21 2139.81 B16.95 0.16 raymondville reach 1 27961 7234.00 4.20 15.18 15.28 0.000648 3.57 5451.64 4766.41 0.23 raymondville 27505.2 1714.00 4.13 reach 1 12.63 12.67 0.000249 1.74 1577.57 724.39 0.13 raymondville reach t 27505.21 2255.00 4.13 13.03 13.07 0.000296 1.98 1886.68 821.50 0.15 raymondville reach 1 27806 21 2856.00 4.13 13.38 13.42 0.00033 2179.60 860.65 0.16 nsymondville reach t 27505.21 7234.00 4.13 14.89 14.96 0.000636 3.49 5859.91 5090.24 0.23 raymondville 27049.4 4.05 1714.00 12.52 12.55 0.000255 each 1 1.74 1619.24 824 8 0.14 raymondville 27049.4\* 4.05 2255.00 reach 1 12.90 12.94 0.000289 1.94 1946.59 884.49 0.15 2856.00 13.23 0.000330 13.28 2.15 1260.16 2300.04 0.16 27049,4" 4.05 raymondville each 1 7234.00 14.6 14.73 0.000470 6868.74 2.98 5359.37 0.19 raymondville reach t 28593.6 1714.00 3 98 12 42 12 45 0.000234 1.66 1768 SE 1006 30 0.13 28593.6\* raymondville reach 1 2255.00 3.98 12.79 12.82 0.000256 1.82 2228 48 1364 94 0.14 26593.6 2856.00 raymondville 3.98 0,000304 reach 1 13.10 13.14 2.06 2733.16 2183,10 0.15 reach 1 6593.6 7234.00 raymondville 3.96 14.53 0.000266 14.56 2.23 8679.77 5107.22 0.15 raymondville reach 1 26137.8\* 1714.00 3.90 12 34 12.36 0.000185 0.12 1.48 2192.22 1558.26 raymondville reach 1 26137.8" 2255.00 3.90 12.68 12.71 0.000244 1.77 2932.78 3244.10 0.13 raymondville reach 1 26137.8 2856.00 3.90 13.00 13.02 0 000218 1.74 4116 03 4080 54 0.13 raymondville 28137.B1 7234.00 3.90 14.46 reach 1 14.47 0.000140 1.62 10848.63 4908.55 0.11 raymondville reach 1 25882 3.83 1714.00 12.28 12.30 0.000131 4063.17 1.25 0.10 raymondville 0.000105 reach 1 25682 2255.00 3 83 12.63 12 84 1.17 4956.15 4115.0 0.09 raymondville reach 1 25662 2856.00 3.83 12.95 12.96 0.000091 1.13 6283.81 4163.40 0,08 25682 reymondville reach 1 7234.00 3.83 14.42 14 43 0.000076 1 22 13204.53 4898 61 0.08 raymondville 25281. 1714.00 3.76 12.25 0.000100 4054.57 reach 1 12.25 1.11 4044.35 0.09 raymondville 25281. 2255.00 3.76 12.60 12.61 reach 1 5490.50 4121.23 0.08 raymondville 25281. 2856.00 3.76 12.92 12.93 0.000081 reach 1 1.08 6893.04 4654.45 0.08 25281.\* 7234.00 3.76 14.40 14.41 0.000074 1.20 raymondville each 1 14367.09 00.000 80,0 24880. raymondville reach 1 1714.00 3,70 12.22 12.22 0.000071 0.95 4652.35 3810.08 0.07 24880. 3.70 12.57 0.000065 raymondville reach 1 2255.00 12.58 0.95 6081.32 4209.63 0.07 24880 2856.00 3.70 12.90 12.91 0.000063 raymondville reach 1 0.97 4663.09 7572.73 0.07 raymondville 24880.\* 7234.00 14.38 14.38 0.000058 reach 1 1.08 15634.68 6000.00 0.07 raymondville reach 1 24479. 1714.00 3.63 12.20 12.20 0.000051 0.82 5339.50 3891.35 0.06 raymondville reach t 24479. 2255.00 3.63 12.56 12.56 0.000048 0.83 6808.75 4400 BC 0.06 raymondville 24479. 3.63 reach 1 2856.00 12.89 12.89 0.000049 0.87 8396.18 4998.58 0.06 raymondville 24479 3.63 0.000046 reach 1 7234.00 14.36 14.36 16904.31 0.97 6000.00 0.06

| Fliver                     | Plan P 25%<br>Reach  | River Sta  | Q Total            | Min Ch El | W.S. Elev     | Crit W.S.  | E.G. Elev  | E.G. Slope  | Vel Chnl   | Flow Area     | Top Width      | Frouds # Ch      |
|----------------------------|--|--|--------------------|-----------|---------------|--|--|-------------|--|---------------|----------------|------------------|
| 50                         | 1 1 1 1 1 1 1  | 6.10-45  | (cfs)              | (ft)      | (ft)          | (ft)   | (ft)   | (ft/ft)     | (ft/n)   | (sq ft)       | (ft)           | ) 1000 # On      |
|                            |  | A 28 YO .  | 3                  |           |               |  | 1  | V-14        | 15-7   | (94.14        |                |                  |
| aymondville                | reach 1  | 24078.*  | 1714.00            | 3.57      | 12.18         |  | 12.19  | 0.000037    | 0.70   | 6166.50       | 4144.97        | 0.               |
| aymondville                | reach 1  | 24078.*  | 2255.00            | 3.57      | 12.54         |  | 12.54  | 0.000036    | 0.73   | 7758.80       | 4885.35        | 0.               |
| aymondville                | reach 1  | 24078.*  | 2856.00            | 3.57      | 12.87         |  | 12.87  | 0.000037    | 0.77   | 9425.27       | 5486.29        |                  |
| avmondville                | reach 1  | 24078.   | 7234.00            | 3.57      | 14.34         |  | 14.34  | 0.000037    | 0.77   |               |                | 0.               |
| ZYTTE KIVARO               | 194311   | 24070,   | 7234.00            | 3.3/1     | 14.34         |  | 14.34  | 0.000037    | 0.88   | 18167.29      | 6000.00        | 0.               |
|                            | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |  |                    | 2.55      |               |  | <del>                                     </del> |             |  |               |                |                  |
| ymorkiville                | reach 1  | 23677  | 1714.00            | 3.50      | 12.16         |  | 12.17  | 0.000027    | 0.60   | 7145.78       |                | 0.               |
| aymondville                | reach 1  | 23877  | 2255.00            | 3.50      | 12.52         |  | 12.53  | 0.000026    | 0.62   | 8905.38       | 5218.63        | 0.               |
| aymondville                | reach t  | 23677  | 2856.00            | 3.50      | 12.85         |  | 12.85  | 0.000027    | 0.66   | 10699.55      | 5874.64        | 0.               |
| ymondville                 | reach 1  | 23677  | 7234.00            | 3.50      | 14.31         |  | 14.32  | 0.000030    | 0.80   | 19430.78      | 6000.00        | 0.               |
| 10-74-649-2                |  | CARGO A 1 1  |                    |           |               |  |  |             |  |               |                |                  |
| symondville                | reach 1  | 21560  | 1714.00            | 3.17      | 12.13         |  | 12.13  | 0.000013    | 0.42   | 10238.60      | 6000.00        | 0                |
| symondville                | reach 1  | 21660  | 2255.00            | 3.17      | 12.49         |  | 12.50  | 0.000012    | 0.42   | 12410,15      | 6000.00        | Ö                |
| eymondville                | reach 1  | 21660  | 2856.00            | 3.17      | 12.82         |  | 12.82  | 0.000013    | 0.44   | 14360.32      | 6000.00        | ō                |
| aymondville                | reach 1  | 21660  | 7234.00            | 3.17      | 14.27         |  | 14.28  | 0.000018    | 0.60   | 23083.75      |                | - 0              |
| Baril da ver               | N. S   | 20120 to 1   |                    |           |               |  |  |             |  |               |                |                  |
| eymondville                | reach 1  | 19606  | 1714.00            | 2.83      | 12,11         |  | 12.11  | 0.000013    | 0.42   | 10017.37      | 5923.15        | 0                |
| symondville                | reach 1  | 19606  | 2255.00            | 2.83      | 12.48         |  | 12.48  | 0.000012    | 0.43   | 12228.49      |                | - 0              |
| ymondville                 | reach 1  | 19606  | 2856.00            | 2.83      | 12.80         |  | 12.80  | 0.000013    | 0.45   | 14140.04      |                |                  |
| symondville                | reach 1  | 19608  | 7234.00            | 2.83      | 14.24         |  | 14.25  | 0.000018    | 0.61   | 22818.38      |                |                  |
| 47.1101.121.110            | Total Control of the   | Zas uga a  | 1204.00            |           |               |  | 14.23  | 0.000010    | 0.01   | 22010.30      | 8000.00        |                  |
|                            |  | 10100.00   | 1714 00            | 2.75      | 12.10         |  | 40.40  | 0.00004.4   | - 0.45   | 2245.27       |                |                  |
| rymondville                | reach 1  | 19152.2*   | 1714.00            | 2.75      | 12.10         |  | 12.10  | 0.000014    | 0.45   | 9715.97       | 6000.00        |                  |
| ymondville                 | reach 1  | 19152.2*   | 2255.00            | 2.75      | 12.46         |  | 12.46  | 0.000013    | 0.45   | 11917.36      |                |                  |
| ymondville:                | reach 1  | 19152.2*   | 2858.00            | 2.75      | 12.78         |  | 12.78  | 0.000014    | 0.47   | 13843.21      | 6000.00        |                  |
| rymondville                | reach 1  | 19152.2*   | 7234.00            | 2.75      | 14.23         |  | 14.23  | 0.000019    | 0.83   | 22508.75      | 6000.00        |                  |
| <u> </u>                   | N C 30 7580 00 0   |  |                    |           |               |  | <del> </del>                                     | <u> </u>    |  |               | ļ              |                  |
| symondville                | reach 1  | 18698.5*   | 1714.00            | 2.68      | 12.08         |  | 12.08  | 0.000018    | 0.47   | 9418.08       | 6000.00        |                  |
| ymondville                 | reach 1  | 18698.5*   | 2255.00            | 2.68      | 12.45         |  | 12.45  | 0.000015    |  | 11607.82      | <u></u>        |                  |
| rymondville                | reach 1  | 18698.5*   | 2856.00            | 2.68      | 12.77         |  | 12.77  | 0.000015    | 0.49   | 13547.98      | 6000.00        | 7                |
| ymondville                 | reach 1  | 18698.5*   | 7234.00            | 2.68      | 14.21         |  | 14.21  | 0.000020    | 0.64   | 22202.71      | 6000.00        |                  |
| 1.29 3.50                  | Grand States   | 0.46777  |                    |           |               |  |  |             |  |               |                | _                |
| aymondville                | reach 1  | 18244.7*   | 1714.00            | 2.61      | 12.07         |  | 12.07  | 0.000017    | 0.49   | 9110.36       | 6000.00        | -                |
| zymondville                | reach 1  | 18244.7"   | 2255.00            | 2.61      | 12.43         |  | 12.43  | 0.000016    | 0.49   | 11288.44      | <del></del>    |                  |
| symondville                | reach 1  | 18244.7*   | 2856.00            | 2.61      | 12.76         |  | 12.76  | 0.000016    | 0.51   | 13242,88      | <del></del>    |                  |
| eymondville                | reach 1  | 18244.7*   | 7234.00            | 2.61      | 14.20         |  | 14.20  | 0.000021    | 0.66   | 21886.83      | <del></del>    |                  |
| 271127741-474              | 1100011 T IN 111102  | SSC 570  | 7204.00            |           | 14.20         | l  | 14.20  | 0.000021    | 0.00   | 21000.00      | 0000.00        | <del> </del>     |
| ymorkiville                | reach 1  | 17791.*  | 1714.00            | 2.53      | 12.05         |  | 12.05  | 0,000019    | 0.52   | 6812,47       | 6000.00        | <del> </del>     |
|                            |  |  |                    |           |               |  |  |             |  |               | <del> </del> - |                  |
| aymondville                | reach 1  | 17791.*  | 2255.00            | 2.53      | 12.41         |  | 12.42  | 0.000017    | 0.52   | 10978.90      | <del></del>    | <del></del>      |
| aymondville                | reach 1  | 17791.*  | 2858.00            | 2.53      | 12.74         |  | 12.74  | 0.000017    | 0.53   | 12947.63      |                | <del></del>      |
| aymondville                | reach 1  | 17791.*  | 7234.00            | 2.53      | 14.18         |  | 14.18  | 0.000021    | 0.68   | 21580,79      | 6000.00        | <u> </u>         |
|                            |  | 900 <b>6</b> 0.00  |                    |           |               |  |  |             |  | ·             |                |                  |
| ymondville                 | reach 1  | 17337.2*   | 1714.00            | 2.45      | 12.04         |  | 12.04  | 0.000021    | 0.55   | 8516.46       |                | 1                |
| symondville                | reach 1  | 17997.2*   | 2255.00            | 2.45      | 12.40         | L  | 12.40  | 0.000019    | 0.54   | 10671.23      | 6000.00        | <u> </u>         |
| ymondville                 | reach 1  | 17337.2*   | 2856.00            | 2.45      | 12.73         |  | 12.73  | 0.000018    | 0.55   | 12654.25      | 6000.00        | L                |
| aymondviile                | reach ‡  | 17337.2*   | 7234.00            | 2.45      | 14.17         |  | 14.17  | 0.000023    | 0.69   | 21276.61      | 6000.00        |                  |
| Legging excens             | e de la completa del completa de la completa del completa de la completa del la completa del la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la  | (2)************************************  |                    |           |               |  |  |             |  |               |                | 1                |
| aymondville                | reach 1  | 16883.5*   | 1714,00            | 2.38      | 12.03         |  | 12.03  | 0.000024    | 0.58   | 8209.99       | 6000.00        |                  |
| aymondville                | reach 1  | 18883.5*   | 2255.00            | 2.38      | 12.38         |  | 12.38  | 0.000021    | 0.57   | 10353.11      | 6000.00        |                  |
| aymondville                | reach 1  | 18883.5*   | 2858.00            | 2.38      | 12.72         |  | 12.72  | 0.000020    | 0.57   | 12350.42      | 6000.00        |                  |
| aymondville                | reach 1  | 16883.5"   | 7234.00            | 2.38      | 14.15         |  | 14.15  | 0.000024    | 0.71   | 20961.98      | 6000.00        |                  |
| 100 0000                   | and promise the  | ad Alle  |                    |           |               |  |  |             | <del>                                     </del> |               | 1              |                  |
| ay mondville               | reach i  | 16429.7  | 1714.00            | 2.31      | 12.00         |  | 12.01  | 0.000027    | 0.82   | 7863.26       | 6000.00        |                  |
| aymondville                | reach 1  | 18429.7*   | 2255.00            | 2.31      | 12.37         |  | 12.37  | 0.000027    | <del></del>                                      |               |                |                  |
| aymondville                | reach 1  | 16429.7  | 2858.00            | 2.31      | 12.70         | -  | 12.37  | 0.000021    | <del></del>                                      |               |                |                  |
|                            |  |  |                    |           |               | _  |  |             | <del></del>                                      |               |                |                  |
| aymondville                | reach 1  | 16429.7*   | 7234.00            | 2.31      | 14,14         |  | 14.14  | 0.000025    | 0.73   | 20653.93      | 6000.00        | <u> </u>         |
| 1 pag 425 - (35 ° (36)     | 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -  | 45050  |                    |           |               | <del> </del>                                     | 11   | 0 222       | <del> </del>                                     |               |                |                  |
| eymondville                | reach 1  | 15978  | 1714.00            | 2.23      | 11.98         |  | 11.98  |             |  | 7522.41       | <del></del>    | +                |
| symondville                | reach 1  | 15976  | 2255.00            | 2.23      | 12.35         |  | 12.35  | 0.000025    |  |               | <del></del>    | <del></del>      |
| symondville                | reach 1  | 15976  | 2858.00            | 2.23      | 12.69         | <del></del>                                      | 12.69  | 0.000023    |  |               |                | <del></del>      |
| aymondville                | reach 1  | 15976  | 7234.00            | 2.23      | 14.12         |  | 14.12  | 0.000026    | 0.75   | 20347.36      | 6000.00        |                  |
|                            | Equay Services   | Marie Control  | L                  |           |               |  | 1  | ļ           | <u> </u>   | ļ             |                |                  |
| symondville                | reach 1  | 15817.2*   | 1714.00            | 2.16      | 11.94         |  | 11.96  | 0.000132    | 1.39   | 3703.63       | 5538,15        | s                |
| aymondville .              | reach 1  | 15617.2*   | 2255.00            | 2.16      | 12.32         |  | 12.33  | 0.000087    | 1.17   | 5882.30       | 5711.75        | ,                |
| symondville                | reach 1  | 15617,2*   | 2856.00            | 2.16      | 12.67         |  | 12.67  | 0.000089    | 1.08   | 7865.54       | 5000.00        |                  |
| aymondville                | reach 1  | 15517.2*   | 7234.00            | 2.16      |               | T  | 14.10  |             |  | <del></del>   |                | <del></del>      |
| 327X3344 X                 | 200  | BAC 8. T.  |                    |           |               | <del>                                     </del> |  |             | <u> </u>   |               | 1              |                  |
| aymondville                | reach 1  | 15058.4"   | 1714.00            | 2.08      | 11.82         | <del>                                     </del> | 11.87  | 0.000256    | 1.92   | 1508.19       | 1757.45        | <del>,</del> ——— |
| symondville                | reach 1  | 15058.4*   | 2255.00            | 2.08      | 12.22         | <del></del>                                      | 12.26  | <del></del> |  |               |                |                  |
| aymondville                | reach 1  | 15058.4*   | 2856.00            | 2.08      | 12.58         | <del>                                     </del> | 12.62  | <del></del> |  | <del></del>   | <del></del>    | <del></del>      |
| symonaville<br>symonaville |  |  |                    |           | 14.05         | <del></del>                                      | +  | 0.000238    |  |               |                |                  |
| SYNTONIO VILIE             | reach 1  | 15058,4*   | 7234.00            | 2.08      | 14.05         | <del> </del>                                     | 14.07  | 0.000112    | 1.57   | 12446,4       | 6000.00        | <del>' </del>    |
| <u> </u>                   | paradian to a  | teri efficie ess   | 1                  |           | <del></del> - | ļ  | <del> </del>                                     | <u> </u>    | ļ  | ļ <del></del> | <del>-</del>   | <del> </del>     |
| aymondville                | reach 1  | 14599.6*   | 1714.00            | 2.01      | 11.68         | <del></del>                                      | 11.73  | <del></del> | <del></del>                                      |               |                |                  |
| symondville                | reach 1  | 14599.6*   | 2255.00            | 2.01      | 12.05         |  | 12.12  |             |  |               |                | <del></del> -    |
| aymondville                | reach 1  | 14599.6*   | 2856.00            | 2.01      | 12.40         | <u> </u>   | 12.47  | 0.000393    | 2.55   | 2131.7        | 3 2029.66      | 3                |
| aymondville                | reach 1  | 14599.6*   | 7234.00            | 2.01      | 13.94         |  | 13.98  | 0.00030     | 2.57   | 8021.3        | 5857.80        |                  |
| 19 d 15                    | purities in the  | Global I   | T                  |           |               |  |  |             |  |               |                |                  |
| aymondville                | reach 1  | 14140.8*   | 1714.00            | 1.93      | 11.53         | T  | 11,59  | 0.00032     | 2.12   | 1101.6        | 656.86         | 3                |
| aymondville                | reach 1  | 14140.8*   | 2255.00            | 1.93      |               |  | 11.94  |             |  |               |                |                  |
|                            | reach 1  |  | 2856.00            |           | <del></del>   | <del></del>                                      | 12.27  |             | <del></del>                                      | <del></del>   |                |                  |
| aymondville                |  | 14140.8*   |                    | ,         |               |  | +  |             |  |               |                |                  |
| aymondville                | reach 1  | 14140.8*   | 7234.00            | 1.93      | 13.64         | <del> </del>                                     | 13.77  | 0.00070     | 3.84   | 4590.0        | 5 3224.1       | <del>' </del>    |
|                            | The state of the first of the state of the s | In the Section of the | 1                  | 1         | I             | 1  | 1  | i .         | 1  | 1             | 1              | 1                |
|                            | · · · · · · · · · · · · · · · · · · ·  | 1  | <u> </u>           |           |               |  |  |             |  |               | -              |                  |
| aymondville<br>aymondville | reach 1  | 13682  | 1714.00<br>2255.00 |           |               |  | 11.44  |             | <del></del>                                      | +             |                |                  |

Plan: P. 25% 3 (Continued)
Reach River Sta Q Total HEC-DAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (ft) (fVft) (sq ft) (ft) raymondville reach 1 13882 2856.00 1.86 11.88 12.01 0.000633 3.11 1323,90 713.65 0.22 raymondville 13682 reach 1 7234.00 1.86 12.96 13.29 0.001571 5.44 2310.96 1440.42 0.35 raymondville reach 1 11672 1714.00 1.53 10.91 10.94 0.000176 1.52 3110,63 4476.22 0.11 raymondville 11.18 11672 2255.00 1.53 11.16 0.00016 1.52 4277.26 4718.76 0.11 reach 1 11872 2856.00 1.53 11.40 0.000154 1,52 5401.95 4832.00 0.11 raymondville reach 1 11872 7234.00 1.53 12.29 1.89 9932.97 5302.08 0.13 raymondville reach 1 9670 1714 00 1.20 10.34 10.40 0.000425 2 22 1627.98 3473.50 0.17 raymondville reach 1 9670 2255.00 1.20 10.72 10.76 0.000279 1.89 3335 44 4974.57 0.14 raymondville reach 1 9670 2856,00 1.20 11.05 11.07 0.000197 1.65 4948.82 4988.98 0.12 raymondville reach t 9670 7234.00 1.20 11.82 11.85 0.000271 2.10 8840.94 5023.58 0.14 raymondvilje reach 1 6234 1714.00 0.64 8.37 8.54 0.000749 3.30 518.92 B4.96 0.24 raymondvitle reach 1 B234 2255.00 0.64 8.91 9.15 0.001008 3.99 565.54 87.13 0.28 raymondville reach 1 8234 2856.00 0.64 9.51 5.09 9.71 0.001300 3.90 1512.63 3570,69 0.30 raymondville reach 1 6234 7234.00 0.64 10.83 10.86 0.000343 2.33 8754.97 6000.00 0.16 raymondville reach 1 4339 1714.00 0.31 7.55 3.61 7.57 0.000310 1.18 1447.47 591.70 0.13 4339 2255.00 ray mondville each 1 0.31 7.92 4.19 7.95 0.000363 1.34 1677.04 638.24 0.15 raymondville reach 1 4990 2856.00 0.31 8.27 5.46 8.30 0.000413 1.50 680.49 0.16 raymondville reach T 4339 7234.00 0.31 9.81 6.58 9.90 0.000712 2.39 3032.64 809.69 0.22 raymondville each 1 1714.00 0.30 4300 7.53 3.60 7.56 0.000318 1.19 1435.14 590.12 0.13 raymondville 4300 2255.00 0.30 7.91 4.17 7.93 0.000372 1.36 1662.70 636.37 0.15 rsymondville 2856.00 0,30 8.25 5.49 0.000424 1.51 1890.91 8.29 679.46 0.16 raymondville reach 1 4300 7234.00 0.30 9.78 6.57 9.87 0.000730 2.41 3003.14 805.12 0.22 raymondville reach 1 3878 00 1714 00 0.23 7.38 7 40 0.000372 1 28 1335.31 554,62 0.15 raymondville reach 1 3878.00 2255.00 0.23 7.73 7.76 0.000434 1.47 1536.62 586.82 0,16 raymondville 3878.00 2856.00 0.00048 reach 1 0.23 8.05 8.09 1.65 1728.19 603.07 0.17 raymondviše reach 1 3878.00 0.23 9.55 7234.00 9.45 0.000785 2.53 3641.70 2837.00 0.23 raymondville march 1 3456.00 1714.00 0.16 7.21 0.000419 1.41 1216.97 480.85 0.16 raymondville reach 1 3456.00\* 2255.00 0.16 7.52 7.56 0.000509 1.65 1381.89 647.80 0.17 raymondville reach 1 3456.00\* 2856.00 0.16 7.81 7.87 0.000612 1.86 1598.25 851.32 0.19 3456,00\* raymondville reach 1 7234.00 0.16 9.17 9.24 0.000633 2.39 4598.62 2818.38 0.21 raymondville reach 1 9034.00° 1714.00 0.09 7.04 0.00054 1146.24 7.00 1.62 922.20 0.18 3034.00° 0.09 7.33 raymondville reach 1 2255.00 7.28 0.000572 1.79 1672.42 1900.36 0.19 raymondville reach 1 3034.00 2858.00 0.09 7.57 2240.94 2009.77 0.18 raymondville reach 1 3034.00 7234.00 0.09 8.97 9.02 0.000424 0.17 raymondville reach I 2612.00\* 1714.00 0.02 6.84 6.86 0.000306 1.40 2173.84 2204.77 0.14 7.13 raymondville reach 1 2612.00 2255.00 0.02 7.15 0.000286 1.44 2830.19 2237.88 0.14 raymondville 2856.00 0.02 reach 1 7.44 7.45 0.000264 2612.00 1.48 3509.30 2277.21 0.13 2612.00\* raymondville reach 1 7234.00 0.02 8.85 8.87 0.000253 1.77 7203.43 2886.24 0.14 raymondville 2190 each t 1714.00 -0.05 6.78 6.79 0.000097 3643.75 0.99 2179.68 0.08 raymondville each 1 2190 2255.00 -0.05 7.07 7.08 0.000114 1.12 4293.78 2443.35 0.09 raymondville reach 1 2190 2856.00 -0.05 7.37 7.38 0.000115 1.17 5037.54 2479 2B 0.09 raymondville reach 1 2190 7234.00 -0.05 8.77 8.79 0.000157 1.60 8729.76 2912.31 0.11 2522.02 raymondville reach 1 1714.00 -0.41 6,51 2.89 6.52 0.000160 1.16 3264.59 0.10 3.47 2255.00 -0.41 0.000160 raymondville reach 1 6.78 6.79 3950.09 2543.12 0.10 raymondville reach t 2856.00 -0.41 7.08 5.55 7.09 0.000160 1.27 4757.25 3325.34 0.10 raymondville reach 1 7234.00 -0.41 8.43 6.13 8.44 0.000160 1.51 9350.29 3429.34 0.11 North Main 99.87 331370 96.81 103.97 104.06 0.000492 410.00 2.44 168.35 36.91 0.20 North Main reach 4 573.00 96.81 105.23 100.50 105.34 0.000479 2.63 217.96 41.60 331370 0.20 0.000463 96.81 North Main reach 4 331370 770.00 106.53 101.12 106.66 275.18 0.20 North Main ach 4 **33137**D 1392.00 96.81 109.54 102.69 109.70 0.000453 3.23 431.50 57.59 0.21 North Main reach 4 330227 410.00 96.76 103.48 99.35 103.55 0.000399 2.23 183.83 39.69 0.18 North Main 104.76 0.000387 reach 4 330227 573.00 96.76 99.90 104.85 2.41 237.54 44.25 0.18 North Main 330227 96.76 106.07 100.47 0.000374 2,58 48.95 reach 4 770.00 106.18 298.96 0.18 reach 4 1392.00 96.76 109.08 101.93 109.23 0.000374 3.01 59.45 North Main 330227 462.46 0.19 North Main reach 4 330128 410.00 96.76 103.44 99.26 103.52 0.000413 2.31 177.44 36.28 0.18 reach 4 North Main 330128 573.00 96.76 104 71 99.81 104 81 0.000421 2.53 226.49 40.84 0.19 North Main reach 4 330128 770.00 96.76 106.02 100.40 106.13 0.000423 2.72 283.12 45.91 0.19 North Mair reach 4 330128 1392.00 96.76 109.02 101.86 109.18 0.000435 3.17 438.74 57.61 0.20 330078 410.00 96.76 103.41 99.26 103.50 0.000419 2.32 176.65 36.22 North Main reach 4 0.19 North Main reach 4 330078 573.00 96.76 104.69 99.80 104.79 0.000426 2.54 225.58 40.75 0.19 330078 770.00 96.76 108.00 100.39 106 11 0.000427 2 73 282.09 45.83 0.19 North Main reach 4 North Main reach 4 330078 1392.00 96.76 109.00 101.86 109.16 0.000438 3.18 437.41 57.52 0.20 North Main 329975 410.00 97.01 103.29 103.43 136.16 32.79 0.26 reach 4 100.02 0.000858 3.01 North Main 104.57 0.000776 3.16 329975 97.01 181.05 37.34 reach 4 573.00 100.64 104.73 0.25 North Main 329975 770.00 97.0 105.88 101.29 0.000711 3.31 232.97 41.99 0.25 reach 4 North Main reach 4 329975 1392.00 97.0 108.88 102.88 0.000646 3.71 52.67 0.25

|                           | Plan: P 25%                             |                   |                   |           | · · · · · · · · · · · · · · · · · · · |             |           |               |           |           |             |              |
|---------------------------|---|-------------------|-------------------|-----------|---------------------------------------|-------------|-----------|---------------|-----------|-----------|-------------|--------------|
| River                     | Fleach                                  | River Sta         | Q Total           | Min Ch Et | W.S. Elev                             | Crit W.S.   | E.G. Elev | E.G. Slope    | Vel Chril | Flow Area | Top Width   | Froude # Chl |
| Mouth Male                | in any St                               |                   | (cfs)             | (R)       | (ft)                                  | (ft)        | (ft)      | (fVft)        | (ft/s)    | (fi pe)   | (ft)        |              |
| North Main                | reach 4                                 | 328000            | 410.00            | 95.28     | 102,35                                | 97.87       | 102.42    | 0.000330      | 2.09      | 198.40    | 40.45       | 0.17         |
| North Main                | reach 4                                 | 328000            | 573.00            | 95.26     | 103.69                                | 98.42       | 103.76    | 0.000321      | 2.26      | 253.61    | 45.11       | 0.17         |
| North Main                | reach 4                                 | 328000            | 770.00            | 95.26     | 105.04                                | 99.00       | 105.13    | 0.000313      | 2.42      | 317.95    | 49.83       | 0.17         |
| North Main                | reach 4                                 | 328000            | 1392:00           | 95.28     | 108.06                                | 100.47      | 108.19    | 0.000329      | 2.88      | 484.17    | 60.35       | 0.18         |
|                           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |                   |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 326000            | 410.00            | 94.56     | 101.63                                | 97.39       | 101.70    | 0.000385      | 2.19      | 187.63    | 40.83       | 0.18         |
| North Main                | reach 4                                 | 326000            | 573.00            | 94.56     | 103.01                                | 97.95       | 103.09    | 0.000354      | 2.31      | 247.67    | 46.27       | 0.18         |
| North Main                | reach 4                                 | 326000            | 770.00            | 94.56     | 104.39                                | 98.54       | 104.49    | 0.000332      | 2.44      | 315.63    | 51.75       | 0.17         |
| North Main                | reach 4                                 | 326000            | 1392.00           | 94.56     | 107.40                                | 100.02      | 107.52    | 0.000335      | 2.85      | 488.77    | 63.48       | 0.18         |
| , pr 1 + 9437             |   | 1.4.5             |                   |           |                                       |             | -         |               |           |           |             |              |
| North Main                | reach 4                                 | 324083            | 410.00            | 94.05     | 101.03                                | 96.40       | 101.09    | 0.000267      | 1.90      | 216.21    | 44.36       | 0.15         |
| North Main                | reach 4                                 | 324083            | 573.00            | 94.05     | 102,46                                | 96.92       | 102.52    | 0.000249      | 2.02      | 283.23    | 49.81       | 0.15         |
| North Main                | reach 4                                 | 324083            | 770.00            | 94.05     | 103,87                                | 97.47       | 103.95    | 0.000238      | 2.15      | 357.59    | 55.24       | 0.15         |
| North Main                | reach 4                                 | 324083            | 1392.00           | 94.05     | 106.85                                | 98.88       | 106.96    | 0.000257      | 2.58      | 539.10    | 66.67       | 0.16         |
| Contraction to the second | 75.834. V 80 A                          | 2.880g887 · ·     |                   |           |                                       | -           |           |               |           |           |             |              |
| North Main                | reach 4                                 | 324005            | 410.00            | 94.05     | 101.01                                | 96.40       | 101.07    | 0.000270      | 1.90      | 215.24    | 44.28       | 0.15         |
| North Main                | reach 4                                 | 324005            | 573.00            | 94.05     | 102.44                                | 96.92       | 102.50    | 0.000251      | 2.03      | 282.22    | 49.73       | 0.15         |
| North Main                | reach 4                                 | 324005            | 770.00            | 94.05     | 103.85                                | 97.47       | 103.93    | 0.000240      | 2.16      |           |             |              |
| North Main                | reach 4                                 | 324005            | 1392.00           | 94.05     | 106.83                                | 98.88       | 108.94    | 0.000259      | 2.59      | 356.52    | 55.16       | 0.15         |
| Mindows 13.45             | - N. S                                  | 024003            | 1352.00           | 34.03     | 100.83                                | 95.00       | 100.84    | 0.000238      | 2.59      | 537.70    | 68.59       | 0.18         |
| NI                        |   |                   |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 322000            | 410.00            | 93.17     | 100.42                                | 95.84       | 100.48    | 0.000317      | 2.04      | 200.55    | 41.49       | 0.16         |
| North Main                | reach 4                                 | 322000            | 573.00            | 93.17     | 101.89                                | 96.40       | 101.96    | 0.000288      | 2.16      | 255.68    | 47.02       | 0.16         |
| North Main                | reach 4                                 | 322000            | 770.00            | 93.17     | 103.33                                | 96.99       | 103.41    | 0.000273      | 2.28      | 337.43    | 52.45       | 0.16         |
| North Main                | reach 4                                 | 322000            | 1392.00           | 93.17     | 108.29                                | 98.48       | 106.37    | 0.000302      | 2.42      | 835.48    | 363.10      | 0.17         |
|                           | 100000000000000000000000000000000000000 | proposition is an |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 320965            | 410.00            | 93.05     | 100.00                                | 95.85       | 100.09    | 0.000464      | 2.40      | 171.18    | 36.63       | 0.20         |
| North Main                | reach 4                                 | 320985            | 573.00            | 93.05     | 101.51                                | 96.44       | 101.61    | 0.000404      | 2.48      | 230.60    | 41.82       | 0.19         |
| North Main                | reach 4                                 | 320965            | 770.00            | 93.05     | 102.98                                | 97.06       | 103.08    | 0.000373      | 2.61      | 295.49    | 46.85       | 0.18         |
| North Main                | reach 4                                 | 320985            | 1392.00           | 93.05     | 105.84                                | 98.63       | 106.00    | 0.000408      | 3.13      | 444.07    | 56.65       | 0.20         |
|                           | 100                                     |                   |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 320873            | 410.00            | 93.05     | 99.95                                 | 95.85       | 100.04    | 0.000476      | 2.42      | 189.52    | 36.47       | 0.20         |
| North Main                | reach 4                                 | 320873            | 573.00            | 93.05     | 101.47                                | 96.44       | 101.57    | 0.000412      | 2.50      | 228.96    | 41.69       | 0.19         |
| North Main                | reach 4                                 | 320673            | 770.00            | 93.05     | 102.94                                | 97.06       | 103.05    | 0.000379      | 2.62      | 293.80    | 46.72       | 0.18         |
| North Main                | reach 4                                 | 320873            | 1392.00           | 93.05     | 105.81                                | 98.63       | 105.96    | 0.000414      | 3.15      | 441.82    | 56.52       | 0.20         |
| printer an ye             | e province and the province of          |                   | 1002.00           | - 50:55   | - 132.31                              | - 30:30     | 100.50    | 3.030474      | - 0.15    |           | 30.02       | 0.20         |
| North Main                | reach 4                                 | 320000            | 410.00            | 92.95     | 99.57                                 | 95.52       | 99.65     | 0.000417      | 2.25      | 182.22    | 40.31       | 0.10         |
| North Main                | reach 4                                 | 320000            | 573.00            | 92.95     | 101.16                                | 96.08       | 101.24    | 0.000341      | 2.28      |           |             | 0.19         |
| North Main                | reach 4                                 |                   |                   |           |                                       |             |           | $\overline{}$ |           | 250.98    | 46.39       | 0.17         |
|                           |   | 320000            | 770.00            | 92.95     | 102.66                                | 96.67       | 102.74    | 0.000306      | 2.37      | 324.79    | 52.12       | 0.17         |
| North Main                | reach 4                                 | 320000            | 1392.00           | 92.95     | 105.50                                | 98.13       | 105.63    | 0.000333      | 2.85      | 488.63    | 63.07       | 0.18         |
|                           |   |                   |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 318000            | 410.00            | 91.12     | 98.87                                 | 93.95       | 98.94     | 0.000306      | 2.05      | 200.37    | 39.67       | 0,18         |
| North Main                | reach 4                                 | 318000            | 573.00            | 91.12     | 100.58                                | 94.56       | 100.65    | 0.000259      | 2.10      | 273.15    | 45.76       | 0.15         |
| North Main                | reach 4                                 | 318000            | 770.00            | 91.12     | 102.12                                | 95.19       | 102.20    | 0.000244      | 2.21      | 348.07    | 51.27       | 0.15         |
| North Main                | reach 4                                 | 318000            | 1392.00           | 91.12     | 104.88                                | 96.76       | 105.00    | 0.000297      | 2.77      | 503.02    | 61.12       | 0.17         |
|                           |   | 1114              |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 317530            | 410.00            | 91.23     | 98.72                                 | 94.19       | 98.79     | 0.000330      | 2.04      | 201.31    | 43.71       | 0.17         |
| North Main                | reach 4                                 | 317530            | 573.00            | 91.23     | 100.46                                | 94.78       | 100.52    | 0.000256      | 2.02      | 283.94    | 51.52       | 0.15         |
| North Main                | reach 4                                 | 317530            | 770.00            | 91.23     | 102.02                                | 95.39       | 102.08    | 0.000228      | 2.08      | 369.59    | 58.52       | 0.15         |
| North Main                | reach 4                                 | 317530            | 1392.00           | 91.23     | 104.78                                | 96.87       | 104.86    | 0.000261      | 2.54      | 547.10    | 70.81       | 0.16         |
| 1 0 E 10 A                |   |                   |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 4                                 | 317452            | 410.00            | 91.23     | 98.70                                 | 94.20       | 98.76     | 0.000335      | 2.05      | 200.14    | 43.59       | 0.17         |
| North Main                | reach 4                                 | 317452            | 573.00            | 91.23     | 100.44                                | 94.78       | 100.50    | 0.000259      | 2.03      | 282.88    | 51.42       | 0.15         |
| North Main                | reach 4                                 | 317452            | 770,00            | 91.23     | 102.00                                | 95.39       | 102.07    | 0.000230      | 2.09      | 368.52    | 58.44       | 0.15         |
| North Main                | reach 4                                 | 317452            | 1392.00           | 91.23     | 104.74                                | 96.67       | 104.84    | 0.000263      | 2.55      | 545.81    | 70.72       | 0.16         |
|                           | 0 60 4. 1 100                           | - 2444 J          | 1552.00           | .,.LS     |                                       | 50.07       | ,4        | 0.00000       | 2.00      | U-10.01   | 10.72       | 0.18         |
| North Main                | reach 4                                 | 317000            | 410.00            | 90.93     | 98.54                                 | 93.87       | 98.61     | 0.000347      | 2.14      | 191.70    | 39.29       | 0.17         |
| Marth Make                |   |                   | 573.00            | 00.00     |                                       |             | 400.00    |               |           |           | 45.04       |              |
| North Man                 | reach 4                                 | 317000            |                   | 90.93     | 100.31                                | 94.48       | 100.38    | 0.000277      | 2.15      | 287.13    | 45.81       | 0.16         |
| North Main<br>North Main  | reach 4                                 | 317000            | 770,00<br>1392.00 | 90.931    | 101.88                                | 95.12       | 101.96    |               | 2.24      | 343.49    | 51.59       |              |
| TWIN MAIN                 | reach 4                                 | 317000            | 1392.00           | 90.93     | 104.59                                | 96.66       | 104.71    | 0.000310      | 2.60      | 498.84    | 61.57       | 0.17         |
| North Mai                 |   | 457000            | <del> </del>      |           | 00.00                                 | <del></del> | 65.5-     | 0.001011      |           |           | ***         |              |
| North Main                | reach 2                                 | 157900            | 40,00             | 90.87     | 92.00                                 | 91.41       | 92.05     | 0.001841      | 1.80      | 22.17     | 21.98       |              |
| North Main                | reach 2                                 | 157900            | 100.00            | 90.87     | 92.66                                 | 91.84       | 92.77     | 0.002313      | 2.65      | 37.72     | 24.65       |              |
| North Main                | reach 2                                 | 157900            | 188.00            | 90.87     | 95.40                                 | 92.32       | 95.44     |               | 1.56      | 120.44    | 35.70       |              |
| North Main                | reach 2                                 | 157900            | 515.00            | 90.87     | 97.21                                 | 93.55       | 97.32     | 0.000598      | 2.69      | 191.51    | 42.97       | 0.22         |
|                           |   |                   | ļ                 |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 2                                 | 157768            | 40.00             | 90.87     | 91.42                                 | 91.34       | 91.59     |               | 3.35      | 11.94     | 22.67       | 0.81         |
| North Main                | reach 2                                 | 157768            | 100.00            | 90.87     | 92.31                                 | 91.74       | 92.45     | 0.003575      | 2.99      | 33.49     | 25.30       |              |
| North Main                | reach 2                                 | 157788            | 188,00            | 90.87     | 95.38                                 | 92.18       | 95.42     |               | 1.51      | 124.58    | 34.57       |              |
| North Main                | reach 2                                 | 157788            | 515.00            | 90.87     | 97.15                                 | 93.35       | 97.26     | 0.000589      | 2.67      | 192.89    | 42.38       | 0.22         |
| 1. 1. 1. 1. 1. 1.         |   | 1-1-1-1           | T                 |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 2                                 | 157777            | Inline Weir       |           |                                       |             |           |               |           |           |             |              |
|                           |   | 2.2               |                   |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 2                                 | 157707            | 40.00             | 88.33     | 89.90                                 | 89.21       | 89.97     | 0.002111      | 2.10      | 19.01     | 16.28       | 0.34         |
| North Main                | reach 2                                 | 157707            | 100.00            | 88.33     | 92.31                                 | 89.77       | 92.34     | 0.000331      | 1.43      | 69.99     | 26.04       | <del></del>  |
| North Main                | reach 2                                 | 157707            | 188.00            | 68.33     | 95.37                                 | 90.36       | 95.39     | 0.000106      | 1.12      | 168.32    | 38.01       |              |
| North Main                | reach 2                                 | 157707            | 515.00            | 88.33     | 97.15                                 | 91.83       | 97.22     | 0.000300      | 2.13      | 241.71    | 44.87       | <del></del>  |
|                           | T                                       |                   | 5,0.00            |           | 37.10                                 | 21,00       | 37,       | 5500.00       |           |           | 77.01       | 5.10         |
| North Main                | reach 2                                 | 157442            | 40.00             | 87.38     | 89.87                                 | 88.30       | 89.70     | 0.000559      | 1.34      | 29.85     | 18.32       | 0.19         |
| North Main                |   |                   |                   | 87.38     | 92.28                                 |             | 92.28     |               | 1.10      | 91.01     | 28.83       |              |
|                           | mech 2                                  | 157442            | 100.00            |           |                                       | 88.88       |           |               | 0,94      | 199.76    |             |              |
| North Main                | reach 2                                 | 157442            | 188.00            | 87.38     | 95.36                                 | 89.49       | 95.37     |               |           |           | <del></del> |              |
| North Main                | reach 2                                 | 157442            | 515.00            | 87.38     | 97.09                                 | 91.01       | 97.15     | 0.000209      | 1,86      | 277.50    | 48.25       | 0.14         |
| N. H                      |   | 100               | -                 |           |                                       |             |           |               |           |           |             |              |
| North Main                | reach 2                                 | 157290            | 40.00             | 87.38     | 89.57                                 | 68.30       | 89.60     | 0.000663      | 1.42      | 28.10     | 17.93       | 0.20         |

| River                                   | Reach                                    | River Sta        | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area | Top Width      | Froude # Chi |
|---|--|------------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-----------|----------------|--------------|
|   |  | 4                | (cfs)              | (ft)           | (ff)           | (ft)           | (ft)           | (ft/ft)    | (fi/e)       | (sq ft)   | (ft)           |              |
| North Main                              | reach 3 (south)                          | 299378           | Inline Weir        |                |                |                |                |            |              |           |                |              |
| 200 200 200 200 200 200 200 200 200 200 |  |                  |                    |                |                |                |                |            |              |           |                |              |
| Vorth Main                              | reach 3 (south)                          | 299365           | 569.00             | 83.41          | 89.69          | 85.93          | 89.81          | 0.000576   | 2.74         | 207.54    | 43.06          | 0.2          |
| Vorth Main                              | reach 3 (aouth)                          | 299365           | 889.00             | 83.41          | 91.46          | 86.72          | 91.61          | 0.000559   | 3.08         | 288.53    | 48.65          | 0.22         |
| Vorth Main<br>Vorth Main                | reach 3 (south)                          | 299365           | 1298.00            | 83.41          | 93.27          | 87.58          | 93.45          | 0.000548   | 3.40         | 381.83    | 54.28          | 0.23         |
| WALLI MIZELL                            | reach 3 (south)                          | 299365           | 2652.00            | 83.41          | 96.44          | 89.77          | 96.78          | 0.000774   | 4.67         | 588.43    | 64.49          | 0.28         |
| Vorth Makr                              | reach 9 (south)                          | 298000           | 500.00             |                |                |                |                |            |              |           |                |              |
| Vorth Main                              | reach 3 (south)                          | 298000           | 569.00             | 81.06          | 89.31          | 83.76          | 89.36          | 0.000196   | 1.81         | 314.52    | 55.58          | 0.18         |
| iorth Main                              | reach 3 (south)                          | 296000           | 889.00             | 81.06          | 91.06          | 84.53          | 91.13          | 0.000219   | 2.13         | 417.90    | 62.70          | 0.15         |
| lorih Main                              | reach 3 (south)                          | 298000           | 1298.00<br>2652.00 | 81.06<br>81.06 | 92.87          | 85.37          | 92.96          | 0.000235   | 2.41         | 537.60    | 70.05          | 0.16         |
|   | 1 2 2 2 2                                |                  | 2032.00            | 81.00          | 95.82          | 87.47          | 96.01          | 0.000381   | 3.48         | 762.64    | 82.10          | 0.20         |
| lorth Main                              | reach 3 (south)                          | 297659           | 569.00             | 81.21          | 89.26          | 90.77          |                |            |              |           |                |              |
| onth Main                               | reach 3 (south)                          | 297659           | 889.00             | 61.21          | 91.00          | 83.77<br>84.51 | 89.30<br>91.06 | 0.000185   | 1.64         | 345.97    | 62.94          | 0.12         |
| lorth Main                              | reach 3 (south)                          | 297669           | 1298.00            | 81.21          | 92.81          | 65.28          | 92.88          | 0.000178   | 1.92         | 462.05    | 70.12          | 0.13         |
| lorth Main                              | reach 3 (south)                          | 297859           | 2652.00            | 81.21          | 95.73          | 87.23          | 95.88          | 0.000307   | 2.18<br>3.15 | 595.10    | 77.62          | 0.14         |
|   |  |                  |                    |                |                |                | 30.00          | 0.000307   | 3.13         | 840.66    | 90.28          | 0.18         |
| korth Main                              | reach 3 (south)                          | 297557           | 569,00             | 81.21          | 89.24          | 83.77          | 89.28          | 0.000166   | 1.65         | 344.89    | 62.87          | 0.12         |
| lorth Main                              | reach 3 (aouth)                          | 297557           | 889.00             | 81.21          | 90.98          | 84.51          | 91.04          | 0.000180   | 1.93         | 460.74    | 70.04          | 0.12         |
| iorth Main                              | reach 3 (south)                          | 297557           | 1298.00            | 81.21          | 92.79          | 85.28          | 92.86          | 0.000190   | 2.19         | 593.56    | 77.53          | 0.14         |
| lorth Main                              | reach 3 (south)                          | 207557           | 2652.00            | 81.21          | 95.70          | 87.23          | 95.85          | 0.000310   | 3,17         | 837.70    | 90.14          | 0.18         |
|   | (KAS)                                    |                  |                    |                |                |                |                |            |              |           | - 33.11        |              |
| lorth Main                              | reach 3 (south)                          | 296000           | 569.00             | 80.22          | 89.01          | 82.79          | 89.05          | 0.000133   | 1.58         | 360.63    | 58.13          | 0.11         |
| lorth Main                              | reach 3 (south)                          | 296000           | 889.00             | 80.22          | 90,72          | 83.57          | 90.78          | 0.000160   | 1.91         | 465.01    | 64.06          | 0.13         |
| lorth Main                              | reach 3 (south)                          | 296000           | 1298.00            | 80.22          | 92.49          | 84.40          | 92.57          | 0.000181   | 2.22         | 583.95    | 70.23          | 0.14         |
| lorth Main                              | reach 3 (south)                          | 296000           | 2652.00            | 80.22          | 95.34          | 86.38          | 95.43          | 0.000218   | 2.73         | 2012.02   | 1190.66        | 0.15         |
| orth Main                               | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | Rode-2           |                    |                |                |                |                |            |              |           |                |              |
| orth Main<br>orth Main                  | reach 3 (south)                          | 294000           | 589.00             | 80.54          | 88.69          | 83.32          | 88.73          | 0.000186   | 1.75         | 324.64    | 58.20          | 0.13         |
| orth Main                               |  | 294000           | 889.00             | 80.54          | 90.34          | 84.09          | 90.41          | 0.000210   | 2.09         | 425.78    | 84.00          | 0.14         |
| orth Main                               | reach 3 (south)                          | 294000           | 1298.00            | 80.54          | 92.07          | 84.89          | 92.16          | 0.000229   | 2.40         | 541.46    | 70.05          | 0.15         |
| Oracjana)                               | Treating (South)                         | 294000           | 2652.00            | 80.54          | 94.63          | 86.85          | 94.84          | 0.000416   | 3.62         | 733.03    | 79.39          | 0.21         |
| orth Main                               | reach 3 (south)                          | 292000           | 569.00             | 00.24          |                |                |                |            |              |           |                |              |
| orth Main                               | reach 9 (south)                          | 292000           | 889.00             | 80.24          | 88.35          | 82.68          | 88.39          | 0.000160   | 1.64         | 347.83    | 62.15          | 0.12         |
| orth Main                               | reach 3 (south)                          | 292000           | 1298.00            | 80.24          | 89.95          | 83.43          | 90.01          | 0.000185   | 1.97         | 452.09    | 67.65          | 0.13         |
| orth Main                               | reach 3 (south)                          | 292000           | 2652.00            | 80.24          | 91.64          | 84.23<br>86.21 | 91.72          | 0.000203   | 2.27         | 571.30    | 73.44          | 0.14         |
|   | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 | No. 24 (4.1)     | 2502,00            | 30.24          | 30.00          | 00.21          | 94.00          | 0.000416   | 3.59         | 737.90    | 80.87          | 0.21         |
| orth Main                               | reach 3 (south)                          | 290823           | 569.00             | 80.24          | 89.14          | 82.70          | 88.18          | 0.000189   | 170          |           |                |              |
| orth Main                               | reach 3 (south)                          | 290823           | 889.00             | 80.24          | 89.70          | 83.46          | 89.77          | 0.000189   | 1.76         | 324.13    | 58.83          | 0.13         |
| orth Main                               | reach 3 (south)                          | 290823           | 1298.00            | 80.24          | 91.37          | 84.26          | 91.46          | 0.000224   | 2.11         | 422.02    | 65.92          | 0.15         |
| orth Main                               | reach 3 (south)                          | 290823           | 2652.00            | 80.24          | 93.41          | 86.27          | 93.53          | 0.000247   | 3.15         | 537.99    | 73.44          | 0.16         |
| Tar Priller                             |  | 10 Sept 2003     |                    |                |                |                | 30.35          | 0.000330   | 3.15         | 1414.73   | 529.95         | 0.19         |
| orth Main                               | reach 3 (south)                          | 290745           | 569.00             | 80.24          | 88.12          | 82.70          | 88.17          | 0.000190   | 1.76         | 323.24    | 58.77          | 0.12         |
| orth Main                               | reach 3 (south)                          | 290745           | 889.00             | 80.24          | 89.69          | 83.46          | 89.76          | 0.000228   | 2.11         | 420.84    | 65.84          | 0.13<br>0.15 |
| orth Mein                               | reach 3 (south)                          | 290745           | 1298.00            | 80.24          | 91.35          | 84.27          | 91.44          | 0.000248   | 2.42         | 536.53    | 73.35          | 0.15         |
| orth Main                               | reach 3 (south)                          | 290745           | 2652.00            | 80.24          | 93.38          | 86.27          | 93.50          | 0.000385   | 3.14         | 1399.83   | 528,53         | 0.20         |
|   |  |                  |                    |                |                |                |                |            |              | - 100755  | - GEG.550      | 0.20         |
| orth Main                               | reach 3 (south)                          | 290000           | 569.00             | 80.24          | 88.00          | 82.40          | 88.04          | 0.000158   | 1.65         | 344.71    | 59.01          | 0.12         |
| orth Main                               | reach 3 (south)                          | 290000           | 889.00             | 80.24          | 89.54          | 83.10          | 89.60          | 0.000192   | 2.02         | 439.75    | 64,45          | 0.14         |
| orth Main                               | reach 3 (south)                          | 290000           | 1298.00            | 80.24          | 91.18          | 83.85          | 91.27          | 0.000219   | 2.36         | 550.41    | 70.27          | 0.15         |
| orth Main                               | reach 3 (south)                          | 290000           | 2652.00            | 80.24          | 93.12          | 85.78          | 93.24          | 0.000322   | 3.12         | 1783.28   | 1147.92        | 0.18         |
| arch Marin                              |  | Anna I           |                    |                |                |                |                |            |              |           |                |              |
| orth Mein<br>orth Mein                  | reach 3 (south)                          | 288232           | 569.00             | 80,38          | 87.69          | 82.52          | 87.74          | 0.000183   | 1.71         | 332.27    | 61.39          | 0.13         |
| orth Main                               | reach 3 (south)                          | 288232<br>288232 | 889.00             | 80,38          | 89.17          | 83.21          | 89.24          | 0.000222   | 2.08         | 427.44    | 67.79          | 0.15         |
| orth Main                               | reach 3 (south)                          | 288232           | 1298.00<br>2652.00 | 80.38          | 90.77          | 83.94          | 90.66          | 0.000246   | 2.40         | 541.32    | 74.73          | 0.16         |
| Arra Month                              | Iseacu o faodilii                        | 200202           | 2052.00            | 80.38          | 92.71          | 85.85          | 92,76          | 0.000203   | 2.39         | 3217.41   | 2435.99        | 0.15         |
| orth Main                               | reach 3 (south)                          | 268165           | 569.00             | 80.38          | 97.00          | 00.55          |                |            |              |           |                |              |
| orth Main                               | reach 3 (south)                          | 288165           | 889.00             | 80.38          | 87.68<br>89.15 | 82.52<br>83.21 | 87.73          | 0.000184   | 1.72         | 331.50    | 61.33          | 0.13         |
| rth Main                                | reach 3 (south)                          | 288165           | 1298.00            | 80.38          | 90.75          | 83.21          | 89,22          | 0.000223   | 2.08         | 426.40    | 67.72          | 0.15         |
| rth Main                                | reach 3 (south)                          | 288165           | 2652.00            | 80.38          | 92.70          | 85.85          | 90.84<br>92.75 | 0.000248   | 2.40         | 540.05    | 74.66          | 0.16         |
| v grala                                 |  | rania da l       |                    |                |                |                | az.13          | 0.000200   | 2.40         | 3195.91   | 2421.62        | 0.15         |
| rth Main                                | reach 3 (south)                          | 288000           | 569.00             | 80.38          | 87.63          | 82.62          | 87.69          | 0.000237   | 1.95         | 291.92    | 52.91          | 0.45         |
| rth Main                                | reach 3 (south)                          | 298000           | 889.00             | 80.38          | 89.09          | 83.34          | 89.18          | 0.000293   | 2.39         | 372.39    | 52.81<br>57.85 | 0.15<br>0.17 |
| rth Main                                | reach 3 (south)                          | 288000           | 1298.00            | 80.38          | 90.67          | 84.14          | 90,79          | 0.000331   | 2.77         | 468.24    | 63.34          | 0.17         |
| rth Main                                | reach 3 (south)                          | 268000           | 2652.00            | 80.38          | 92,70          | 86.17          | 92.71          | 0.000149   | 1.30         | 5083.19   | 3049.28        | 0.18         |
|   | DESCRIPTION OF                           |                  |                    |                |                |                |                |            |              |           | 20.0.20        | V.11         |
| rth Main                                | reach 3 (aouth)                          | 286897           | 1044.00            | 80.37          | 87.19          | B2.89          | 87.30          | 0.000456   | 2.68         | 389.81    | 73.49          | 0.20         |
| th Main                                 | reach 3 (south)                          | 286897           | 1567.00            | 80.37          | 88.56          | 83.65          | 88.71          | 0.000522   | 3.17         | 495.03    | 80.15          | 0.22         |
| th Main                                 | reach 3 (south)                          | 286897           | 2228.00            | 80.37          | 90.09          | 84.48          | 90.29          | 0.000549   | 3.58         | 623.08    | 86.90          | 0.24         |
| th Main                                 | reach 3 (south)                          | 286897           | 4412.00            | 80.37          | 92.30          | 86.61          | 92.42          | 0.000458   | 3.43         | 3237,59   | 2071.95        | 0.22         |
| ab 9 8 1                                |  | 10 (3) 12 × 16 ° |                    |                |                |                |                |            |              |           |                |              |
| rth Main                                | reach 3 (south)                          | 286000           | 1044.00            | 80.36          | 86.65          | 82.98          | 86.81          | 0.000659   | 3.13         | 333,79    | 65.67          | 0.24         |
| rth Main                                | reach 3 (south)                          | 286000           | 1567.00            | 80.36          | 87.93          | 83.74          | 88.14          | 0.000763   | 3.72         | 420,77    | 70.79          | 0.27         |
| rth Main<br>rth Main                    | reach 3 (south)                          | 286000           | 2228.00            | 80.36          | 89.42          | 84.58          | 89.69          | 0.000797   | 4.20         | 530,32    | 76.49          | 0.28         |
| THE INTERPO                             | reach 3 (south)                          | 286000           | 4412.00            | 80.36          | 91.58          | 86.76          | 91.86          | 0.000818   | 4.79         | 2375,36   | 2202.79        | 0.29         |
| rth Main                                | reach 3 (south)                          | 284529           | 1044.00            | 20.00          |                |                |                |            |              |           |                |              |
| rın Main<br>rih Main                    | reach 3 (south)                          | 284529<br>284529 | 1044.00            | 80.36          | 83.43          | 83.06          | 84.33          | 0.009023   | 7.61         | 137.11    | 51.53          | 0.82         |
| rth Main                                | reach 3 (south)                          | 284529           | 1567.00            | 80.36          | 85.29          | 83.84          | 85.95          | 0.003854   | 6.51         | 240.78    | 59.95          | 0.57         |
| rth Main                                |  | 284529           | 2228.00            | 80.36          | 87.18          | 84.71          | 87.77          | 0.002406   | 6.14         | 362.72    | 68,72          | 0.47         |
| - 17-4011                               |  |                  | 4412.00            | 80.36          | 90.51          | 86.91          | 90.58          | 0.000837   | 2.97         | 3269.05   | 2199.42        | 0.27         |
|   | the second of the Salah                  | 284517           |                    |                |                |                |                |            |              |           |                |              |

| River                                   | Reach   | River Sta           | Q Total       | Min Ch El | W.S. Elev    | Crit W.S.  | E.G. Elev | E.G. Slope  | Vei Chnl     | Flow:Area:   | Top Width  | Froude # Chi |
|---|---|---------------------|---------------|-----------|--------------|--|-----------|-------------|--------------|--------------|--|--------------|
| 4, 4                                    |   |                     | (cfs)         | (ft)      | · (ft)       | (ft) · ·   | (ft)      | (ft/ft)     | (ft/s)       | (sq ft)      | (ft)   | <u> </u>     |
| 2 111/2/23                              | Service And Co.   |                     |               |           |              |  |           |             |              |              |  |              |
| rth Main                                | reach 3 (south)   | 284500              | 1044.00       | 74.78     | 83.42        | 77.76  | 83.51     | 0.000307    | 2.48         | 421.04       | 64.98  | 0.1          |
| rth Main                                | reach 3 (south)   | 284500              | 1587.00       | 74.78     | 85.28        | 78.62  | 85.41     | 0.000331    | 2.86         | 548.61       | 71.88  | 0.           |
| rth Main 😘 😣                            | reach 3 (south)   | 284500              | 2228.00       | 74.78     | 87.17        | 79.55  | 87.33     | 0.000353    | 3.22         | 691.1B       | 79.89  | 0.           |
| th Main                                 | reach 3 (south)   | 284500              | 4412.00       | 74.78     | 90.50        | 81.95  | 90.57     | 0.000429    | 2.58         | 3622.57      | 2201.84  | 0.3          |
| Segundary Co.                           | Will Wasters  | # 184 PART          |               |           |              |  |           |             |              |              |  |              |
| th Main                                 | reach 3 (south)   | 284287              | 1044.00       | 74.78     | 83.33        | 77.89  | 83.44     | 0.000369    | 2.68         | 388.89       | 60.65  | 0.           |
| th Main                                 | reach 3 (south)   | 284287              | 1567.00       | 74.78     | 85.18        | 78.79  | 85.33     | 0.000396    | 3.09         | 507.39       | 67.19  | 0.3          |
| rth Main                                | reach 3 (south)   | 284287              | 2228.00       | 74.78     | 87.06        | 79.75  | 87.25     | 0.000422    | 3.48         | 639.95       | 73.82  | 0.           |
| rth Main                                | reach 3 (south)   | 284287              | 4412.00       | 74.78     | 90.39        | 82.22  | 90.46     | 0.000594    | 2.51         | 3314.31      | 2077.42  | 0.           |
| ut Man                                  | reaxi 3 (eauir)   | 20-201              | 4412.00       | 74.70     | 30.38        | 02.22  | 30.40     | 0.00034     | 2.01         | 3514,51      | 2077.42  |              |
| 4.14.17                                 | 10 No - Co. 400 17 10 10 10 10 10 10 10 10 10 10 10 10 10 |                     | 1044.00       | 74.78     | 83.29        | 77.89  | 83.40     | 0.000376    | 2,70         | 386.48       | 60.51  | 0.           |
| rth Main                                | reach 3 (south)   | 284201              |               |           |              |  |           |             |              |              |  | 0.           |
| rth Main                                | reach 3 (south)   | 284201              | 1567.00       | 74.78     | 85.14        | 78.79  | 85,29     | 0.000403    | 3,11         | 504.58       | 67.04  |              |
| nh Main                                 | reach 3 (south)   | 284201              | 2228.00       | 74.78     | 87.02        | 79.75  | 87.21     | 0.000428    | 3.50         | 636.72       | 73.67  | 0.           |
| th Main                                 | reach 3 (south)   | 284201              | 4412.00       | 74.78     | 89.99        | 82.22  | 90.33     | 0.002038    | 4.68         | 942.80       | 237.58   | 0            |
|   | ACT TO SECOND   |                     |               |           |              |  |           |             |              |              |  |              |
| rth Main                                | reach 3 (south)   | 284000              | 1044.00       | 73.32     | 83.23        | 77.22  | 83.33     | 0.000305    | 2.44         | 427.34       | 66.52  | 0.           |
| th Main                                 | reach 3 (south)   | 284000              | 1567.00       | 73.32     | 85.09        | 78.40  | 85.21     | 0.000325    | 2.82         | 558.57       | 73.05  | 0            |
| th Mair                                 | reach 3 (south) *   | 284000              | 2228.00       | 73.32     | 86.96        | 79.45  | 87.12     | 0.000346    | 3.18         | 699.88       | 79.59  | 0.           |
| th Main                                 | reach 3 (south)   | 264000              | 4412.00       | 73.32     | 89.79        | 81.75  | 90.13     | 0.000602    | 4.70         | 938.35       | 89.41  | 0            |
| - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |   | #4 On ago           |               |           |              |  |           |             |              |              |  |              |
| th Main                                 | reach 3 (south)   | 282000              | 1044.00       | 73.33     | 82.71        | 76.35  | 82.79     | 0.000235    | 2.26         | 462.37       | 66.88  | 0            |
| th Main                                 | reach 3 (south)   | 282000              | 1587.00       | 73.33     | 84.50        | 77.22  | 84.61     | 0.000272    | 2.88         | 588.16       | 73.65  | 0            |
| th Main                                 | reach 3 (south)   | 282000              | 2228.00       | 73.33     | 86.33        | 78.15  | 86.48     |             | 3.05         | 729.45       |  | 0            |
| th Main                                 | reach 3 (south)   | 282000              | 4412.00       | 73.33     | 88.53        | 80.56  | 68.89     |             | 4.82         | 915.22       | 88.85  |              |
| ur mout                                 | read o (Boull)  | -DEVAN              | 4412.00       | 73,33     | 00.50        | 30.36  | 00.00     | 5.00042     | 4.02         | 310.22       | 55.85  | <del></del>  |
| 45 14-Jr                                | Contract of the second                                    | 200007              | 1044.00       | 70.00     | 93.54        | 70.40  | 92.04     | 0.000044    | 3.40         | 410.80       | 85.49  |              |
| rth Main                                | reach 3 (south)   | 280327              | 1044.00       | 73,32     | 82.24        | 76.48  | 82.34     |             | 2.49         | 419.60       |  |              |
| rth Main                                | reach 3 (south)   | 280327              | 1587.00       | 73.32     | 83.96        | 77.37  | 84.09     |             | 2.91         | 537.61       | 72.20  |              |
| rth Main                                | reach 3 (south)   | 280327              | 2228.00       | 73.32     | 85.73        | 78.34  | 85.90     |             | 3.32         | 671.85       | 1000   |              |
| rth Main 🖖 🐭                            | reach 3 (south)   | 280327              | 4412.00       | 73.32     | 87.82        | 80.79  | 87.97     | 0.000416    | 3,62         | 2753.43      | 1286.08  | 0            |
| <u> </u>                                | green and property  | 19 Prop 1 1 2 4     |               |           |              |  |           |             |              |              |  |              |
| rth Main                                | reach 3 (south)   | 280283              | 1044.00       | 73.32     | 82.22        | 76.48  | 82.32     | 0.000314    | 2.50         | 418.26       |  |              |
| rtte Main                               | reach 3 (south)   | 280263              | 1567.00       | 73.32     | 83.94        | 77.37  | 84.07     | 0.000357    | 2.92         | 535.90       |  |              |
| rth Main                                | reach 3 (south)   | 260263              | 2228.00       | 73.32     | 85.70        | 78.34  | 85.88     | 0.000395    | 3.33         | 689.74       | 79.78  |              |
| rth Main                                | reach 3 (south)   | 280263              | 4412.00       | 73.32     | 87.79        | 80.78  | 87.94     | 0.000427    | 3.67         | 2712.52      | 1265.06  |              |
| er. 1983                                | and the second  | STEP OF THE         |               |           |              |  |           |             |              |              |  |              |
| th Main                                 | reach 3 (south)   | 280000              | 1044.00       | 73.32     | 82.14        | 76.38  | 82,24     | 0.000307    | 2.49         | 418.68       | 83.76  | -            |
| rth Mein                                | reach 3 (south)   | 280000              | 1587.00       | 73,32     | 83.84        | 77.25  | 83.97     | 0.000354    | 2.94         | 532.46       | 70.04  |              |
| eth Main                                | reach 3 (south)   | 280000              | 2228.00       | 73,32     | 85.59        |  | 85.77     | 0.000395    | 3.37         | 681.03       | 78.52  | (            |
| orth Main                               | reach 3 (south)   | 280000              | 4412.00       | 73.32     |              |  | 87.83     |             | 3.73         | 2699.48      |  |              |
| Service and and                         | COSC COSC COSC COSC                                       | LUCUTO              | 47,2:00       | 7 0.02    |              |  |           |             |              |              |  |              |
| 4.14.                                   |   | 070000              | 1044.00       | 73.32     | 81,32        | 76.63  | 81.46     | 0.000504    | 2.96         | 352.18       | 60.61  | -            |
| orth Main                               | reach 3 (south)   | 278000              |               |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 278000              | 1587.00       | 73.32     |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 278000              | 2228.00       | 73.32     |              |  |           |             |              | 589.40       |  |              |
| ath Main                                | reach 3 (south)   | 278000              | 4412.00       | 73.32     | 87.10        | 80.94  | 87.16     | 0.000254    | 2.81         | 4149.13      | 1754.65  |              |
| 100000                                  | 4.14  | a grandence.        |               |           |              |  |           |             |              |              |  | <b> </b>     |
| orti Main                               | reach 3 (south)   | 276000              | 1044.00       | 74.04     | 80.06        |  | 80.25     |             |              | 319,66       |  |              |
| orth Main                               | reach 3 (south)   | 276000              | 1567.00       | 74.04     | 81.56        | 77.41  | 81.78     | 0.000765    | 3.74         | 419.02       |  |              |
| orth Main                               | (dtuce) E riceen  | 278000              | 2228.00       | 74.04     | 83.16        | 78.25  | 83.43     | 0.000769    | 4.16         |              |  |              |
| orth Main                               | reach 3 (south)   | 276000              | 4412.00       | 74.04     | 85.50        | 80.41  | 86.00     | 0.001695    | 5.98         | 737.30       | 110.50   | ) (          |
| 100                                     | 23034/3. 2 (3.00)   | 3 (State of 3) (数1) |               |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 275122              | 1044.00       | 74.04     | 78.74        | 76.94  | 79.10     | 0.002514    | 5.01         | 208.44       | 55.86  | 3            |
| orth Main                               | reach 3 (south)   | 275122              | 1567.00       | 74.04     |              |  |           |             | 5.15         | 304.27       | 61.91  |              |
| orth Main                               | reach 3 (south)   | 275122              | 2228.00       | 74.04     |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 275122              | 4412.00       | 74.04     |              |  |           |             |              | -            |  | -            |
| Und Malit                               | (SORII)   |                     | 4412.00       | /04       | 34.0         | 00.00  |           | 5.55,86     | 5.10         |              |  |              |
|   |   | 075140              | India a Mi-1- |           | <del> </del> |  |           | <del></del> | <del> </del> |              | +  | <del></del>  |
| orth Main                               | reach 3 (south)   | 275113              | Inline Weir   |           |              | <del>                                     </del> |           |             | <del></del>  | <del> </del> | <del>                                     </del> |              |
| **************************************  |   | B                   |               |           | 1            | 70.00  | 30.5      | 0.000348    | 2.58         | 404.90       | 8 84.4   | ,            |
| orth Main                               | reach 3 (south)   | 275102              | 1044.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 275102              | 1567.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 275102              | 2228.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 275102              | 4412,00       | 70.20     | 84.0         | 0 77.51  | 84.3      | 1 0.000B10  | 4.75         | 1896.2       | 4 1663.3   | 4            |
|   | F3.25.37  |                     |               |           | -            |  |           |             | <del></del>  | ļ            | +  |              |
| orth Main                               | reach S (south)   | 274897              | 1044.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 8 (south)   | 274837              | 1567.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 274837              | 2228.00       | 70.2      | 82.0         |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 274837              | 4412.00       | 70.2      | 84.0         | 5 75.00  | 84.1      | 4 0.00017   | 2.59         | 3607.9       | 7 2501.8   | 9            |
| CONTRACTORS                             |   | 9 ×2 = 1 1          |               |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 274000              | 1044.00       | 70.2      | B 78.5       | 7 72.9   | 78.6      | 5 0.00025   | 2.24         | 465.3        | 8 72.0   | 9            |
| orth Main                               | reach 3 (south)   | 274000              | 1567.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 274000              | 2228.00       |           |              |  |           |             |              |              |  |              |
|   |   | 274000              | 4412.00       |           |              |  |           |             |              | _            |  |              |
| orth Main                               | reach 3 (south)   | 214000              | 4412.00       | 10.2      | 63.7         | 75.77  | - 53.9    | 0.0000      | 3.3          | 0003.0       |  | 1            |
|   | 200   | S                   | 1             |           |              | 70 -   | 70 -      | 8 0.00022   | 0 2.0        | 503.0        | 2 80.4   | 8            |
| orth Main                               | reach 3 (south)   | 272412              | 1044.00       |           |              |  |           |             |              |              |  |              |
| orth Main                               | reach 3 (south)   | 272412              | 1587.00       |           |              |  |           |             |              |              |  | _            |
| orth Main                               | reach 3 (south)   | 272412              | 2228.00       |           |              |  |           |             |              | _            |  |              |
| orth Main                               | reach 3 (south)   | 272412              | 4412.00       | 70.2      | 8 82.7       | 5 76.2   | 1 83.1    | 1 0.00073   | 1 4.8        | 3 913.5      | 100.3  | 5            |
|   |   |                     |               |           |              |  |           |             |              |              | 1  |              |
| orth Main                               | reach 3 (south)   | 271000              | 1306.00       | 70.2      | 7 77.8       | 8 73.0   | 2 77.8    | 0.00046     | 0 2.9        | 5 442.5      | 6 71.5   | 5            |
| orth Main                               | reach 3 (south)   | 271000              | 1925.00       |           |              |  | -         |             |              |              | 78.0   | 18           |
| orth Main                               | reach 3 (south)   | 271000              | 2703.0        |           |              |  |           |             |              |              |  | 6            |
| ANGEL LEIGHT                            | reach 3 (south)   | 271000              | 5237.0        |           |              |  |           |             |              |              |  |              |
| orth Main                               |   |                     |               |           |              |  |           |             |              |              |  |              |

Plan: P. 25% Continu River Ste Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (H) (ft) (ft) (ft/ff) (sq ft) North Main each 2 118403 2355.00 70.00 81 80 76.04 82.11 0.000426 4.55 614.33 104,35 0.26 North Main ach 2 THAIR 4175.00 70.00 84 22 77.98 84.74 0.000568 6.08 1078.32 277 92 0.31 88.12 North Main each 2 116403 10250.00 70.00 86,76 82.86 0.001339 10.59 2470.12 852.57 0.49 70.00 79.35 73.29 79.45 0.000183 2.58 468.09 79.56 0.16 11816 1120.00 North Main each 2 82.01 North Main 2355.00 70.00 81.76 75.16 0.000318 4.06 701.64 119.00 0.22 ceach 2 4175.00 70.00 84.17 77.13 84 50 0.000440 5 49 1211.70 311.02 0.27 North Main teach 2 16161 North Main reach 2 118161 10250.00 70.00 86.62 82.12 87.76 0.001089 9.71 2573.42 867.45 0.44 79.16 74.01 79.28 0.000229 2.88 211,28 0.18 North Main reach 2 115322 1120.00 70.00 539.44 81.75 1868.84 North Main 2355.00 70.00 81.62 75.78 0.000228 3.45 755.07 0.19 reach 2 115322 4175.00 70.00 84.20 77.95 1257.05 0.18 North Main 15322 each 2 11457.03 worth Main 10250.00 70.00 86.97 82.27 87.08 0.000230 4548.97 0.20 North Main each 2 115218 1120.00 70.00 79.16 73.19 79.25 0.000159 2.53 602.83 174.11 0.15 North Main reach 2 115218 2355.00 70.00 81.60 74.98 81.72 0.000190 3.27 1815.93 711.52 0.17 84.27 115218 4175.00 84.18 77.05 0.000145 3.29 4287.04 1240.88 0.16 North Main reach 2 70.00 87.06 North Main 115218 10250.00 70.00 86.93 82.15 0.000228 4.68 11201.25 4476.68 reach 2 0.20 115057 1120.00 70.00 79.14 73.09 79.22 0.000141 2.39 1026 17 805 DB 0.14 North Main each 2 torth Main each 2 115057 2355 00 70.00 81,64 74.83 81.68 0.000084 2.18 4081.66 1668.65 0.12 each 2 North Main 115057 4175.00 70.00 84,22 76.81 84.24 0.000047 1.89 10196.87 3185.21 0.09 86,99 80.91 87.01 0.000049 North Main mach 2 115057 10250.00 70.00 2.18 22603.32 5737.53 0.09 Yorth Main 114848 72.89 79.19 0.000119 2.09 1099.54 920.03 1120.00 70.00 79,13 0.13 114848 2355.00 70.00 81,64 74.60 81.65 0.000048 1.60 5876.08 3202.49 0.09 sech 2 North Main nach 2 11484B 4175.00 70.00 84.21 76.48 84.22 0.000025 1.32 13174.70 5487.42 0.06 North Main ach 2 114848 10250.00 70.00 86,99 80,65 87.00 0.000031 1.68 26098.16 10585.81 0.07 North Main 114815 1120.00 70.00 79.08 72.77 79.15 0.000134 2.22 570.25 731.66 0.14 reach 2 North Main 81.62 74.43 0.000054 1.69 3302.68 0.09 reach 2 14615 2355.00 70.00 81.64 5687.43 114615 4175.00 70.00 84.21 76.24 84.21 0.000024 1.30 13469 48 5479.13 0.06 reach 2 North Main reach 2 114815 10250.00 70.00 86.99 80.98 87.00 0.000029 1.65 26867.81 10185.84 0.07 North Main reach 2 14600 Bridge 114585 79.05 72.77 79.13 0.000138 2.23 550.02 687 25 0.14 1120.00 70.00 North Main reach 2 North Main 114585 2355.00 70.00 81.60 74.43 81.62 0.000054 1.70 5658 68 3286 24 0.09 reach 2 North Main reach 2 114585 4175.00 70.00 84.19 76,24 84.20 0,000024 1.30 13472.95 5450.23 0.06 North Main reach 2 114685 10250.00 70.00 86.98 80.98 86.98 0.000029 1.64 26891.11 10156.17 0.07 0.000137 114500 79.04 72.77 79.12 2.23 543.56 672.45 0,14 North Mair reach 2 1120.00 70.00 81.62 North Main 114500 2355.00 70.00 81.59 74.43 0.000054 1.69 0.09 reach 2 5440.60 0.000023 1.27 13779.58 North Main reach 2 4175.00 70.00 84.18 76.24 84,19 0.06 86.97 North Main each 2 114500 10250.00 70.00 80.95 86,98 0.000028 1.61 27336.42 10142.02 0.07 72.96 0.000183 67.44 North Main ach 2 113500 1120 00 70 00 78 B6 78.96 2.52 456.52 0.16 81.54 2.30 4510.46 3315.50 **B1.49** 74.73 0.000102 0.13 North Main reach 2 113500 2355.00 70.00 113500 84.16 76.61 84,17 0.000024 1.30 14072.60 5485.41 0.06 North Main reach 2 4175.00 70.00 10546.34 113500 10250.00 70.00 81.62 86.95 0.000026 1.54 28057.25 0.07 North Main ach 2 North Main sach 3 (south) 315796 410.00 90.87 98 19 93 28 98 24 0.000261 1.92 213.14 41.35 0.15 each 3 (south) North Main 315798 573.00 90.87 100.03 93.83 100.09 0.000210 1.94 295.09 47.55 0.14 374.81 101,62 94.40 101.68 0.000198 2.05 52.89 0.14 North Main mach 3 (south 315796 770.00 90.87 0.000201 90.87 104.32 95.86 104.40 2.33 833.94 299.87 0.14 315796 1392.00 North Main each 3 (south) North Main each 3 (south) 315434 410.00 90.87 98 11 93.06 98.15 0.000188 1.64 249.95 49.43 0.13 North Main each 3 (south) 315434 573.00 90.87 99.98 93.55 100.02 0.000146 1.64 349.58 57.14 0 12 North Mair reach 3 (south 315434 770.00 90.87 101.57 94.08 101,62 0.000137 1.73 445.82 63.71 0.12 reach 3 (south) 4440.17 1324.78 North Main 315434 1392.00 90.87 104,36 95.42 104.36 0.000020 0.74 0.04 0.000414 315287 569.00 90.32 98.01 93.48 98.10 2.44 233.66 45.45 0.19 North Main reach 3 (south) North Main 889.00 90.32 99.86 94.34 99.97 0.000413 2.74 323.89 52.27 0.19 reach 3 (eouth) 315287 315287 1298.00 90.32 101.41 95.26 101,57 0.000467 3,17 409.54 58.09 0.21 North Mair each 3 (south North Main reach 3 (south) 572.89 69.01 315287 2652.00 90.32 103.98 97.50 104.32 0.000802 4,63 0.28 569.00 97.40 93.03 97.51 0.000507 2.67 213.51 41.89 0.21 314000 89.95 North Main reach 3 (south) 314000 889.00 89.95 99.2 93.94 99.39 0.000506 3.00 296.66 48.39 0.21 North Main reach 3 (south) North Main reach 3 (south) 314000 1298.00 89.95 100.70 94.90 100.89 0.000590 3.50 370 79 53.52 0.23 2652.00 89.95 102.5 97.28 103.03 0.001259 5.5B 475.57 60.03 0.35 North Main reach 3 (south 314000 89.95 97.33 93.03 97.44 0.000528 2.71 210.31 41.62 0.21 313862 569.00 North Main each 3 (south) 89.95 99.17 93,94 99.31 0.000523 3.03 292.98 48.12 0.22 889.00 313862 North Main reach 3 (south) 0.00061 3.55 366.06 53.21 0.24 1298.00 89.95 100.6 100.8 North Main 313862 reach 3 (south) 89.95 97.28 102.85 0.001350 5.72 463,40 59.31 0.36 North Main 2652.00 102.34 reach 3 (south) 44.40 North Main each 3 (south) 312000 569.00 89.03 96.49 91.86 96.58 0.00040 2.43 234,30 0.19 50.74 98.33 0.000410 2.76 321.65 0.19 North Mair reach 3 (south) 312000 889.00 89.03 92.72 98.45 100.21 0.000175 1.98 1974.41 1928.17 0.13 100.17 93.63 1298.00 89.03 North Main reach 3 (south) 312000 3258.17 102.52 0.000031 0.93 8452.60 0.06 89.03 102.52 95.91 2652.00 North Main reach 3 (south) 312000 57.19 North Main reach 3 (south) 311185 569.00 88.28 96.30 90.77 96.35 0.000194 1.79 318,63 0.13 ech 3 (south) 65.18

North Main

311165

889.00

88.28

98.13

91.55

98.20

0.000208

2.06

430,76

0.14

| Froude # Cht | rhbiW qoT        | Flow Area        | Vel Chri     | E.G. Slope           | E.G. Elev       | CH W.S.          | W.S. Elev         | Min Ch El      | Material D        | ate tevifi | Man D 25%                                | SVCL Jahr                |
|--------------|------------------|------------------|--------------|----------------------|-----------------|------------------|-------------------|----------------|-------------------|------------|--|--------------------------|
| 771.377      | (y)              | (y be)           | (6/1)        | (NA)                 | (u)             | (11)             | (n)               | (#)            | (ela)             | 2 2 2      | AC 19 VAM                                | 1 12 1 1 1               |
|              | S1.EY            | 90.788           | 2.33         | 0.000220             | 100.04          | 75.26            | 96.66             | 85.88          | 1298.00           | 281116     | (divos) 6 dasen                          | nisM rinoM               |
| 20.0         | 24.782E          | 71.58ET          | 71.1         | <b>€¥0000.</b> 0     | 102.50          | 91.46            | 95.501            | 82.88          | 2652.00           | 201116     | (rituos) & rioses                        | niaM rithoM              |
| Er.0         | ₱1.72            | 78.71£           | 67.↑         | 261000.0             | <b>№</b> .96    | 11.06            | 96.29             | 82.88          | 00.693            | ettite     | (rituos) & rices:                        | niaM rthoM               |
|              | \$1.29           | 18.85            | 70.S         | 0.000209             | 61.86           | SS.16            | S1.89             | 85.88          | 00.688            | 811118     | (ritios) 8 dosen                         | misM AhoM                |
|              | 80.ET            | 222,95           | 2.33         | 1SS000.0             | E0.001          | 75.59            | 96'66             | 85.88          | 1298.00           | 811116     | (dluce) & doesn                          | North Main               |
| 20.0         | 16.7825          | 88.1857          | pt-t         | £\$0000.0            | 102.50          | SV 16            | 102.49            | 82.88          | 2652.00           | 811116     | (filuos) & ribess                        | niaM AnoM                |
| 21.0         | 16.84            | AT.285           | 66.1         | \$62000.0            | 01.96           | 95.09            | 10.96             | 60.88          | 00.693            | 310000     | (rituos) & rices                         | nisM rthoN               |
|              | 78.42            | 379.22           | PE.S         | £82000.0             | 26.76           | 9£.16            | <b>1/8</b> .76    | E0.88          | 00.668            | 310000     | (rituos) & rioser                        | misM righold             |
| 71.0         | 69.09            | 78.584           | 69.S         | 0.000269             | 27.99           | 52.23            | <b>C9</b> .66     | £0.88          | 1298.00           | 3100018    | (ritude) & rideen                        | nisM ritsoVi             |
| 80.0         | 3211.86          | 12.791-8         | EE.1         | 280000.0             | 102.44          | 24.46            | 102.43            | 50.88          | 2652.00           | 210000     | (rbuce) & rhosen                         | nish rinov               |
| ct.0         | 90.84            | 275.22           | 70.2         | 092000.0             | 08.86           | 90.26            | <b>175</b> '96    | £7.78          | 00'695            | 308000     | (disce) & doner                          | MISM ATTOM               |
| 41.0         | 87.E2            | 26.E8E           | 2.44         | 0.000294             | TE. TE          | 70.16            | 7 <u>Z</u> .76    | £7.78          | 00.688            | 30800      | (dauce) & doesn                          | nieM rthoM               |
|              | 9P.62            | 28.184           | 18.2         | 825000.0             | E1.66           | 56.16            | 10.99             | ET.78          | 1298.00           | 308000     | (rttuce) & rhoeen                        | nisM rthoM               |
| 60.0         | 96.86.94         | 02.1598          | 88.1         | Z <b>9000</b> 0'0    | 102.28          | S1.46            | 102.26            | £7.78          | 2652,00           | 308000     | (rituos) & rioses                        | nisM rimoN               |
| er.o         | 06.14            | 87.1ES           | 2.45         | 614000.0             | SE.26           | ₱9.06            | 92'S6             | ET.T8          | 00.692            | 307236     | (ntuce) & riceen                         | riski drovi              |
| 02.0         | 99.13            | 314.06           | 2.83         | 6110000              | 60.76           | PS'16            | 96.86             | £7.78          | 00.688            | 962706     | (disos) & doner                          | nish Anon                |
|              | 87.72<br>S1 5085 | 19.704           | 31.5         | 07±000.0             | E8.86           | 71.28            | 79.86             | ET.78          | 1298.00           | 865706     | (diuce) & doesn                          | niaM Main<br>North Main  |
| 61.0         | S1.7082          | 87.1785          | 15.5         | 61+000.0             | 21,201          | 94.46            | 01.501            | £7.78          | 2662.00           | 96270E     | (rituos) 6 riceari                       | niaM AtroM               |
| 61.0         | ET.AA            | 87.655           | 84.5         | 0.000429             | 16.28           | ₱9:06            | 1Z.26             | ET.78          | 00.688            | 961206     | (rthues) & ribeen                        | North Main               |
| 0.20         | <b>86</b> ,18    | 311.58           | 2.85         | 0.000459             | ₱0.7 <b>6</b>   | <b>1</b> 916     | Z6'96             | £7.78          | 00.688            | 307136     | (ritude) & ribeet                        | North Main               |
|              | 28.72<br>2499.39 | \$6'298Z         | 3.21         | 084000.0             | 87.86<br>11.501 | 74.26<br>87.46   | S8.86<br>S0.501   | ET.T8<br>ET.T8 | 1298,00           | 961706     | (rituos) & ricean<br>(rituos) & ricean   | nisM rthoM<br>nisM rthoM |
| 02.0         | BC:86+7          | CC 1507          | 94.2         | LC#000'0             | 111701          | D/:tec           | 60.201            | 61.10          | 00,5003           | Ser in     | (mpoe) o reserv                          | Hammer Cores             |
|              | 45.05            | 214.49           | 2.65         | 2000000              | 87.46           | 90.06            | Z9°76             | 86.38          | 00.688            | 300900     | (rituos) & rioner                        | mail (thol)              |
|              | 86.84<br>87.62   | 82 635           | 70.E         | 84-2000.0            | 71.8e           | 70.16            | EE.86             | 8E.88<br>8E.86 | 00.688<br>00.8851 | 309000     | (duos) & doesn                           | nish dron                |
|              | 54.75<br>54.75   | 85.67E           | 84.E<br>47.4 | 188000.0<br>SE8000.0 | 81.86<br>85.101 | 80.28<br>\$2.148 | 00.86<br>E0.101   | 8E.88<br>8E.88 | 1298.00           | 30900      | (rituos) & riosen<br>(rituos) & riosen   | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                |                   |            | BANKELINE SILVERS                        | 18.00 mg (N)             |
|              | 84.44<br>88.64   | 98.0ES<br>19.50E | 2,93         | 0.000420             | 88.88<br>MA.88  | SS. 68<br>01.06  | 17.6e             | <b>€</b> E.88  | 00.688            | 304000     | (rituos) & riomen<br>(rituos) & riomen   | night rinoh              |
|              | 96.88            | 18.885           | 3.36         | 162000.0             | Z0'Z6           | 50.16            | 88.86             | 9E.88          | 1298.00           | 304000     | (dicos) e doser                          | riski rinovi             |
|              | 5.E8             | S21.62           | 80.8         | 986000.0             | <b>78.6</b> 9   | 0E.E8            | Z1.66             | 9£.88          | 2652,00           | 304000     | (duos) & dosen                           | Moth Main                |
|              |                  | 75 000           |              | 537000.0             | 57.60           |                  |                   | VE 36          | 55 003            | JOHNE      |  | TO THE PERSON            |
|              | 93.36<br>54.62   | 12.925           | 86.S<br>ST.S | 88+000.0<br>19+000.0 | S1.59<br>94.63  | ≯1.68<br>≯6.68   | 12.46             | 95.38<br>95.88 | 00.688            | 302338     | (rituos) & riceen<br>(rituos) & riceen   | nieM rtnoM               |
|              | 95'12            | 432 22           | 3,00         | <b>181000</b> .0     | 55.96           | 82'06            | 80'96             | 9E.88          | 1298.00           | 302338     | (rituos) 6 riosen                        | nieM rinoM               |
| 60°0         | 2125.54          | E1.15E2          | 80.1         | 880000.0             | <b>BO</b> .66   | 18,56            | <b>40</b> '66     | 9E.38          | 2652.00           | 302338     | (rituos) & ribaen                        | nisM dhoM                |
| 720 1        | , e ea           | 17 00C           | .4.0         | 0080000              | W 60            | 3F 06            | 10.00             | 36 BB          | 20 093            | PEGGIE     |  | -1-11-49-01/             |
|              | NE.E2            | 17.60S<br>46.59S | 3.02         | 799000 0             | 60°66           | 24.98<br>16.09   | 78.26<br>54.46    | <b>95.88</b>   | 00.688            | \$7550E    | (rituos) & ricaen<br>(rituos) & ricaen   | nisM dhoN                |
|              | 39.69            |                  |              |                      |                 | 61.23            | 10.86             | <b>66.39</b>   | 1298.00           | 205514     | (rituos) & ricaen                        | niaM (book)              |
| St.0         | 2018.01          | 61.0504          | 1.84         | 271000°C             | 20.66           | <b>EE.</b> E8    | 90.66             | €£.88          | 2652.00           | 302274     | (ribuos) & ribean                        | niski rimoh              |
| 5, U         | - C3             | CO 636           | FO 6         | PREGOO ()            | W 60            | 69 00            | P4 50             | OF SE          | 00 099            | SCOTUE:    |  |                          |
|              |                  | S6.888<br>86.888 |              | 885000.0<br>514000.0 |                 | 89.88<br>14.68   | 87.89<br>87.89    | 9E.88          | 00.698            | 301822     | (rituos) & riceen                        | nisM rinoM<br>nisM rinoM |
|              |                  | 69.1£⊅           |              | ₹ <b>£№000</b> .0    |                 |                  | 28.26             |                | 1298.00           | 301355     | (rbuoe) & rhaner                         | nieM rhoM                |
| E1.0 6       | 2124.78          | SS.S74E          | 2,13         | 871000.0             | 10.66           | 92,18            | 16.86             | ec.88          | \$862.00          | 301855     | (rituos) & rices                         | niaM ritroM              |
| 81.0 4       | 8.52             | 78.825           | 22.22        | 72E000.0             | 68.Se           | 88.88            | 28.58             | 6E.38          | 00.695            | 301815     | (rituos) & riceen                        | -in that                 |
|              |                  | 338.17           | 2.63         | 104000.0             |                 | 44.4             | 82.46             |                | 00.688            | 301916     | (rimos) & ricean                         | Morth Main               |
| 0.20         | 9.1-9            | 71.4EA           | 8.39         | 0.000429             | 96.36           | 91.06            | <del>98</del> '96 | <b>e</b> £.86  | 1298.00           | 316105     | (rituos) & ritosen                       | North Main               |
| 11.0         | 2553.03          | 95.8474          | 65.1         | atr000.0             | 00'66           | 61.56            | 96 B6             | 8E.88          | 2652,00           | 316106     | neach 3 (south)                          | minM stroM               |
| 81.0         | 7.58             | 89,255           | 2.23         | 186000.0             | 78.Se           | 89,89            | 08.56             | <b>6</b> E.88  | 00.695            | 30106      | (rituos) & riosen                        | niaM choV                |
|              |                  |                  |              |                      |                 |                  | 94.26             |                | 00.688            | 301885     | (rituos) & ribeen                        | nisM rhoM                |
|              |                  |                  |              |                      |                 |                  | 18.26             |                | 1298.00           | 301986     | (rituae) & riceen                        | nieM rthoM               |
| 11.0 0       | \$29 <b>5</b> .4 | 98.0674          | 69°L         | er1000.0             | 66.86           | £1,56            | 86.86             | ec.88          | 2652.00           | 301885     | (rituos) & ribeen                        | niaM rthoM               |
| ES.0 E       | £.24             | 203.41           | 2.80         | <b>788000.0</b>      | 92.80           | 80.68            | 89.56             | €E.88          | 00.698            | 157106     | (divos) 6 ribeer                         | North Main               |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.688            | 301721     | (rituos) & rioses                        | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.8651           | 301721     | (rituos) & ricases<br>(rituos) & ricases | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                |                   | R wag safe |  |                          |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.692            | 30166      | (rituos) E ribeen                        | nisM rthoM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 1298.00           | 30106      | (Altuce) & Annen                         | nisM AtroM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 2652.00           | 301656     | (rhuce) & rhanen<br>(rhuce) & rhanen     | North Main               |
|              |                  |                  |              |                      |                 |                  |                   |                |                   | 1 10 10 10 |  | A                        |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.688            | 300000     | (rituos) 6 rices                         | nisM rinoM               |
|              |                  |                  |              |                      |                 |                  |                   |                | 1298.00           | 300000     | reach 3 (south)                          | nisM dhoM<br>nisM dhoM   |
| 92 0.36      | 9.09             | 81.884           | 99.2         | 166100.0             | 69.76           | 1 <b>5.</b> 56   | 97.20             | 66.39          | 5652.00           | 300000     | (rithos) & ricean                        | nisM rtnoM               |
| 34.0         | 9.84             | ES.0E1           | ZE**   1     | 157200.0             | 00.06           | 7£.88            | 07.68             | €E.88          | 269.00            | 588392     | (rithos) & ribsen                        | niaM rithoM              |
|              |                  |                  |              |                      |                 |                  |                   |                | 00.688            | 596385     | (rituos) & ricean                        | nisM rthoff              |
|              | 9.48             | 38.80E           | 4.20         | 19010000             | 93.58           | ST.68            | 83.E9             | <b>6</b> E.38  | 1298.00           | 299365     | (rituos) E ricean                        | nisM rtnoM               |
|              |                  | 77.564           |              |                      | 06'96           | 9.16             | 97'96             | €E.38          | 2652.00           |            |  |                          |

HEC DAS Plan P 25% 3 (Continued) River Sta 0 Total Vel Chnl Reach Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Flow Area Top Width Froude # Chi. (cfs) (H) (ft) (ft) (ft/ft) (ft/a) (sq ft) (ft) North Main reach 2 37249 482.00 78.00 87.08 80.54 87.13 0.000093 319 88 52.91 0.12 reach 2 North Main 137249 1051.00 78.00 90.08 82.09 90,19 0.000151 3.06 495.03 64.52 0.16 North Mair each 2 137249 1858.00 78.00 91.01 83.79 91.33 0.000352 4.93 557.73 67.93 0.24 North Main 137249 4804.00 reach 2 92.14 88.26 93.63 0.001679 11.40 821.90 3640.75 0.54 North Main reach 2 137150 482.00 78.00 87.07 80.41 87.12 0.00008 333.54 53.74 0.11 North Main each 2 137150 1051.00 78.00 90.06 81,88 90.17 0.000133 2.88 510.38 64.88 0.15 North Main each 2 137150 1858.00 78.00 91.00 83.52 91,29 0.000312 4.65 573.03 68.36 0.23 North Main each 2 137150 4804.00 78.00 92.02 87.85 93.63 0.001585 10.97 646.41 2221.13 0.52 North Main ach 2 135957 482.00 78.00 87.00 80.18 87.04 0,000063 1.64 364.12 57.05 0.10 North Main reach 2 135957 1051.00 78.00 89.93 81.52 90.02 0.000107 547.31 2.58 67.85 0.13 North Main 83.04 reach 2 135957 1858.00 78,00 90.78 0.000210 3.79 1405.30 1303.71 0.19 North Main reach 2 135957 4804.00 78.00 91.90 87.09 92.26 0.000533 6.42 3681.48 2916.62 0.31 North Main 135841 reach 2 482.00 78.00 86.98 80.23 87.02 0.000068 1 70 353.30 55.71 0.10 North Main reach 2 135841 1051.00 78.00 89.90 81.60 90.00 0.000115 2.67 531.56 66,34 0.14 North Main reach 2 135841 1858.00 78.00 90.71 83.15 90.93 0.000248 4.11 1167.16 1395.68 0.20 North Main reach 2 135841 4804.00 7B.00 91.79 87.27 92.20 0.000602 6.75 3731.79 5976.83 0.32 North Main reach 2 135233 482.00 78.00 86.95 80.32 86.99 0.000066 1.57 55.01 0.10 North Main reach 2 135233 1051.00 78.00 89.85 81.73 89 94 0.000108 2.46 518.86 0.13 66.03 North Main reach 2 1858.00 78.00 90.68 83.13 90.78 0.000151 3.06 2883.68 3640 52 0.16 North Main reach 2 135233 4804.00 78.00 91.99 86.96 92.00 0.000054 1.95 17128.66 9186 61 0.09 North Main mach 2 134690 482 00 78.00 86.93 80.04 86.96 0.000046 1.33 403.28 63,63 0.08 North Main reach 2 134690 1051.00 78.00 89.82 B1.31 89.88 0.000069 1.99 951.06 598.31 0,11 North Main each 2 134690 1858.00 78.00 90.66 82 63 90 71 0.000084 2.30 4704.58 8801.60 0.12 North Main each 2 134690 4804.00 78,00 91.98 86.09 91.99 0.000041 1.73 18937.69 9801.20 0.08 North Mair 134647 reach 2 Bridge North Main reach 2 134606 482.00 78.00 86 89 81.96 86.94 0.000134 2.01 312.74 70.36 0.14 North Main reach 2 134606 1051.00 78.00 89.72 83.30 89.81 0.000141 2.60 1307.46 1864.92 0.15 North Main 134506 reach 2 1858.00 78.00 90.62 84.81 90.66 0.000108 2.42 5367.26 8768.46 0.13 North Main each 2 134806 4804.00 78.00 91.96 90.76 91.96 0.000042 1.64 19613.56 9788.50 0.08 North Main reach 2 134537 482.00 78.00 86.90 80.04 86,92 0.000047 1.34 400 B8 63 48 0.08 North Mair reach 2 134537 1051.00 78.00 89.73 81.31 89.79 0.000073 2.03 895.56 574.51 0.11 North Main reach 2 134537 1858 00 78.00 82.63 90.64 0.000094 2.43 4434.95 8739.14 0.12 North Main reach 2 134537 4804.00 78.00 91.95 86.09 91.96 1.75 18692.29 9782.15 0.09 North Main reach 2 132334 962.00 78.00 86.51 61.36 86.64 0.000271 2.86 347.05 5R 17 0.19 North Main reach 2 132334 1985.00 78,00 89.09 83.16 89.38 0.000387 4.22 675.33 2154.88 0.24 North Main reach 2 132334 3435.00 78.00 84.98 90.22 90.30 0.000207 3.33 6566.96 8427.84 0.18 North Main each 2 78.00 91.79 90.51 91.81 0.000096 2.50 21396.33 9651.57 0.13 North Main reach 2 131688 962.00 78.00 86.34 81.34 86.46 0.000269 2.77 357.38 61,94 0.19 0.000239 North Main reach 2 131688 1985.00 78.00 89.00 83.09 89.13 3.29 1925.05 1989,6 0.19 North Main 131688 3435.00 reach 2 78.00 90.09 84.81 90.17 0.000190 3.16 5798.20 7579.23 0.17 North Main reach 2 131688 8788.00 78.00 91.71 89.89 91.74 0.000114 2.69 19249.46 8694.01 0.14 North Main reach 2 130701 962.00 78.00 86.26 80.24 86.29 0.000095 1.68 1065.62 280.33 0.11 North Main reach 2 130701 1985 00 78.00 88.92 81.50 0.000099 2.13 2227.26 1500.41 0.12 North Main reach 2 130701 3435.00 78.00 89.95 82.88 90.00 0.000137 2.69 0.15 North Main each 2 130701 8788.00 78.00 91.59 86.50 91.62 0.000128 2.87 17414.03 8455.02 0.15 North Main reach 2 130046 962.00 78.00 86.03 81.30 3.01 327.47 86.17 0.000326 57.23 0.21 North Main 130048 each 2 1985.00 78.00 88.65 83.09 88.84 0.000327 3.77 1648.99 3269.49 0.22 North Main reach 2 130046 3435.00 78.00 8079.57 89.85 84.88 89.91 0.000165 2.91 6619.25 0.16 North Main reach 2 130048 8788.00 78.00 91.54 89.69 0.000069 91.55 2.08 23821.63 9344.04 0.11 North Main 128081 reach 2 962.00 78.00 85.37 81.03 85,52 0.000370 3.04 320.37 196.37 0.22 North Main 128081 each 2 1985.00 78.00 88.05 82.73 88.22 0.000311 3.56 1711.83 3151.93 0.21 North Main reach 2 3435.00 78.00 89.55 84.47 89.61 0.000149 2.74 6773.35 6703.22 0.15 North Main each 2 128081 8788.00 78.00 91.44 89.09 91.44 0.000046 1.71 27441.69 9638.16 0.09 reach 2 North Main 128032 962.00 78.00 85.35 81.04 85.50 0.000376 3.05 318.6€ 188.78 0.22 North Main reach 2 128032 1985 00 78.00 88.03 82.72 88.20 0.000318 3.60 1674.52 3117.76 0.22 North Main 3435.00 reach 2 128032 78.00 89.55 64.47 89.60 0.000150 2.75 6758.84 6729 91 0.15 North Main each 2 128032 8788.00 78.00 91.43 89.09 91.43 0.000046 1.71 27475.54 9654.49 0.09 North Main 126984 reach 2 962.00 76.00 85.04 79.67 85.16 0.000267 2.7 357.36 1365.73 0.19 North Main each 2 126984 1985.00 76.00 87.90 81.51 87.96 0.000138 2.48 3139.94 4073.35 0.14 North Main reach 2 126984 3435.00 76.00 89.45 83.42 89.48 0.000077 2.05 8359.63 6535.8 0.11 North Main reach 2 128984 8788.00 76.00 91.40 88.13 91,40 0.000028 1.38 31465.98 9055.57 0.07 North Main 126599 reach 2 962.00 76.00 84.94 85.05 0.000275 79.66 2.71 357.00 60.18 0.19 North Main reach 2 128599 1985.00 76.00 87.64 81.48 87.86 0.000338 3.81 782.60 977.89 0.22 North Main reach 2 126599 3435.00 76.00 89.34 83.39 89.43 0.000180 5506.91 3.12 6420.99 0.17 North Main each 2 126599 8788.00 76.00 89.23 1.95 24674.39 8888.89 0.10

HEC\_DAS Plan: P 25% 3 (Continued)
River Reach RiverSta Q Tota Min Ch El Q Total W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Froude # Chi (cfs) (ft) **(ft)** (11) (fl/fl) (fl/a) (ac ft) (11) 125566 North Mair aach S 962.00 76.00 84.61 79.66 84.74 0.000332 334.00 57.37 0.21 1985.00 North Main reach 2 125566 76.00 87.27 61.48 87.49 0.000380 3.93 688.76 984.99 0.23 North Main reach 2 125588 3435.00 76.00 89.13 83.38 89.22 0.000209 3.32 4521.78 4084.20 0.18 North Mair 76.00 each 2 125566 8788.00 91,28 88.92 91.31 0.000100 2.60 19891.95 9254.74 0.13 North Main reach 2 124578 962.00 76.00 84 33 79.24 84.45 0.000264 2.79 354.51 60.15 0.19 North Main reach 2 124578 1985.00 78.00 88.85 81.00 87.11 0.000383 4.15 519.66 70.63 0.24 North Main reach 2 124578 3435.00 76,00 88.71 82.77 88.94 0.000357 4.52 2458.61 2036.24 0.24 124578 North Male reach 2 8788.00 76.00 90.95 89.11 91.12 0.000365 5.17 9007.22 5479.00 0.25 North Main reach 2 124380 962.00 76.00 84.23 79.51 84.37 0.000343 3.10 318.91 56.05 0.21 North Main reach 2 124360 1985.00 76.00 86,77 81,36 87.03 0.000417 4.25 805.80 440.91 0.25 reach 2 124360 3435.00 76.00 88.59 83.15 88.85 0.000428 4.86 1977.55 2413.04 0.26 North Main each 2 124360 8788.00 76.00 90.97 88.79 91.03 0.000208 3.87 13000.02 5749.37 0.19 North Main arti 2 124036 962.00 76.00 84.11 79.38 R4 26 0.000342 3.09 31B.71 55.34 0.21 North Main each 2 124036 1985.00 76.00 86.61 81.22 86.88 0.000438 4.33 744.61 408.54 0.25 North Main each 2 124036 3435.00 78.00 88.41 83.03 88.71 0.000463 5.03 1830.26 0.27 North Main aoh 2 124036 8768.00 76.00 90.88 68.75 90.96 0.000228 4.04 12447.38 5637.35 0.19 North Main ech 2 122198 962.00 76.00 83.46 79.14 83,61 3.10 313.79 57.54 0 22 North Main each 2 122198 1985.00 76.00 86.02 80.87 86.18 0.000320 3.58 1401.38 **678.14** 0.22 North Main each 2 122198 3435.00 76.00 88.06 62.63 88.14 0.000183 3.13 4408.59 2048.76 0.17 North Main reach 2 122198 8788.00 76.00 90.52 87.29 90.58 0.000189 3.65 11022.83 5366.97 0.18 North Main reach 2 120752 962.00 76.00 R2 55 79.42 82.61 0.000841 4.02 239.96 50.91 0.32 North Main reach 2 120752 1985,00 85.41 76.00 84.93 81.24 0.000953 5.56 373.13 61.29 0.36 North Main reach 2 3435.00 76.00 87.50 83.02 87.73 0.000462 4.73 2682.90 1825.82 0.27 North Mair each 2 120752 8788.00 76.00 90.16 87.94 90.25 0.000278 4.30 8360.91 2900.23 0.21 North Main reach 2 120467 962.00 76.00 82.32 79.23 82.56 0.000832 3.93 245 16 52.51 0.32 North Main reach 2 120467 1985.00 76,00 84.68 80.99 85.13 0.000924 5.40 380.90 62.75 0.36 each 2 120487 3435.00 76.00 87.08 82.74 87.54 0.000758 5.93 1568.19 1850.36 0.34 North Main each 2 20467 8788.00 76.00 90.10 66 05 90.18 0.000250 4.10 10106.63 4296.46 0.20 North Main each 2 119740 962.00 78.00 80.78 79.23 81.28 0.002445 5.68 169.27 45.79 0.52 North Main reach 2 119740 1985.00 76.00 83.03 80,96 83.80 0.002242 7.06 283.14 55.56 0.53 North Main reach 2 110740 3435 00 76.00 85.21 82.74 86.35 0.002131 8.61 466.34 1369.24 0.55 North Main reach 2 119740 6788.00 76.00 90.03 87.55 90.05 0.000087 2.12 19364.39 7395.43 0.11 North Main reach 2 119730 962.00 72.00 80.99 75.11 81.08 0.000139 2.13 473,41 79.15 0.14 North Main each 2 119730 1965.00 72.00 83.32 76.74 83.49 0.000225 3.27 690.41 118.57 0.19 North Ma woh 2 119730 3435.00 85,63 72.00 78.35 85.91 0.000302 4.39 1047.18 1570.56 0.22 North Main each 2 8788.00 119730 72.00 89.61 82.35 89.95 0.000354 5.76 4040.69 6174.87 0.26 North Main reach 2 118784 962.00 72.00 80.88 75.11 80.96 0.000146 2.17 465.01 78 50 0.14 North Main reach 2 118784 1985.00 72.00 83.18 76.74 83.32 0.000211 3.14 1075.90 569.16 0.18 North Main reach 2 118784 3435.00 72.00 85.57 78.35 85.67 0.000153 3.11 3071.56 3291.00 0.16 North Main each 2 118784 8788.00 72.00 89.64 84.22 89.69 0.000098 3.00 10454.44 5052.28 0.13 North Main reach 2 118761 962.00 70.00 80.88 73.45 80.94 0.000115 2.05 487 99 0.13 North Main reach 2 118761 1985.00 70.00 75.48 83.31 0.000187 3.09 1079.88 584.50 0.17 North Main reach 2 118761 3435.00 70.00 85.56 77.48 85.67 0.000153 3.20 2912.73 893.63 0.16 North Main reach 2 118761 6788.00 70.00 89,62 83.99 89.68 0.000108 3.23 11060.36 2547.63 0.14 North Main march 2 118735 Culver North Main reach 2 118709 962.00 70.00 79.87 79.95 0.000181 2.35 417.09 67 48 0,16 North Main reach 2 118709 1985.00 70.00 82.64 82.61 0.000241 3.38 812.96 446.55 0.19 North Main reach 2 118709 3435.00 70.00 85.55 85.66 0.000154 3.21 2904.14 892.99 0.16 each 2 118709 8788.00 70.00 89.61 89.67 0.000108 3.24 11032.25 2545.21 0.14 North Main mach 2 118835 962.00 72.00 79.64 79.94 0.000222 2.47 396.41 70.11 0.17 North Main reach 2 118635 1985.00 72.00 82.62 82.79 0.000263 3.43 826.05 475.27 0.20 North Main reach 2 118635 3435.00 72.00 85.54 85.64 0.000155 3.16 2979.12 948.80 0.16 North Main each 2 118635 8788.00 72.00 89.60 89.66 0.000102 3.11 11259.97 2559.45 0.14 North Main reach 2 18513 962.00 72.00 79.82 79.91 0.000211 2.44 399.85 67.63 0.17 North Main reach 2 118513 1985.00 72.00 82.59 82.76 0.000250 3.37 857.94 448.70 0.19 North Main reach 2 118513 3435.00 72.00 85.52 85.62 0.000154 3 17 2942 4B 922.90 0.16 North Main reach 2 118513 8788.00 72.00 89.59 89.65 0.000105 3.18 11122.31 2540.76 0.14 North Main 117690 1120.00 70.00 reach 2 79.63 73 75 79.76 0.000243 2.99 395.95 60.50 0.18 North Main reach 2 117690 2355.00 0.000413 70.00 82.21 75.82 82.54 4.69 568.37 73.71 0.25 North Main reach 2 117690 4175.00 70.00 84.76 77.91 85.39 0.000607 6 55 783.99 93.60 0.32 North Main reach 2 117690 10250.00 70.00 89.32 83,24 69.52 0.000283 5.45 8421.16 6050.56 0.23 North Mair reach 2 117193 1120.00 70.00 79.53 73.66 79.66 0.000242 2.98 389.69 58.25 0.18 North Main reach 2 117193 2355.00 70.00 82.04 75.71 0.000422 82.37 4.70 561,22 79.98 0.25 North Mair 117193 77.76 reach 2 4175.00 70.00 84.48 85.14 0.000633 6.82 829.37 211.18 0.32 North Main reach 2 117193 10250.00 70.00 87.26 83.27 89.13 0.001576 11.88 1886.64 848.40 0.53 North Main reach 2 116403 1120.00 70.00 79.38 74.20 79.51 0.000260 2.94 408.87 70.45 0.19

| River Reach 2 North Main reach 2 |  | River Sta   | Q Total          | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Slope           | Vel Chnl                              | Flow Area        | Top Width      | Froude # Chi                          |
|--|--|---|------------------|----------------|----------------|--|----------------|----------------------|---------------------------------------|------------------|----------------|---------------------------------------|
| North Main reach 2 North Main re | Reach  | Jurei Ola   | (cfs)            | (ft)           | (ft)           | (ft)   | (ft)           | (fVft)               | (fVs)                                 | (sq ft)          | (ft)           | Troise vie                            |
| North Main reach 2 North Main re | 2  | 157290  | 100.00           | 87.38          | 92.23          | 88.88  | 92.25          | 0.000164             | 1.11                                  | 90.09            | 28.70          | 0.11                                  |
| North Main reach 2 North Main re |  | 157290  | 188.00           | 87.38          | 95.35          | 89.49  | 95.38          | 0.000088             | 0.94                                  | 199.20           | 41.31          | 0.08                                  |
| North Main reach 2 North Main re | 2  | 157290  | 515.00           | 87.38          | 97.05          | 91.01  | 97.11          | 0.000213             | 1.87                                  | 275.51           | 48.09          | 0,14                                  |
| North Main reach 2 North Main re | *  | 38 39 38 38 3   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2 North Main re |  | 158900  | 40.00            | 87.38          | 89,39          | 88.06  | 89.41          | 0.000376             | 1.10                                  | 36.31            | 22.48          | 0.15                                  |
| North Main reach 2 North Main re |  | 156900  | 100.00           | 87.38          | 92.18          | 88.52  | 92,19<br>95.34 | 0.000091<br>0.000043 | 0.88                                  | 113.32           | 32.70          | 0.08                                  |
| North Main reach 2 North Main re |  | 156900<br>156900  | 188.00<br>515.00 | 87.38<br>87.38 | 95.33<br>96.99 | 89.03<br>90.35                                   | 97.04          | 0.000148             | 1.64                                  | 234.26<br>313.20 | 44.25<br>50.38 | 0.12                                  |
| North Main reach 2 North Main re | 29 3 0 0 0<br>3 9 9 9 0  | IGGGGG  | 313.00           | 67.36          | 90.33          | 50.33  | 67.04          | 0.000140             | 1.04                                  | 313.20           | 30.30          | 0.12                                  |
| North Main reach 2 North Main re | 2  | 155952  | 40.00            | 87.33          | 88.96          | 87.94  | 88.98          | 0.000542             | 1.17                                  | 34.30            | 26.17          | 0.18                                  |
| North Main reach 2 North Main re |  | 15591-2   | 100.00           | 87.33          | 92.12          | 88.35  | 92.13          |                      | 0.70                                  | 141.98           | 42.08          | 0.07                                  |
| North Main reach 2 North Main re |  | 155852  | 188.00           | 87.33          | 95.30          | 88,80  | 95.31          | 0.000026             | 0.62                                  | 301.64           | 58.14          | 0.05                                  |
| North Main reach 2  | 2  | 155′ 52   | 515.00           | 87.33          | 96,90          | 89.97  | 96.92          | 0.000089             | 1.29                                  | 400.73           | 66.18          | 0.09                                  |
| North Main reach 2  |  | \$655 and 6   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   |  | 155846  | 40.00            | 87.31          | B8.90          | 87.84  | 88.92          |                      | 1.24                                  |                  | 23.04          | 0.18                                  |
| North Main reach 2               |  | 15\848  | 100.00           | 87.31          | 92,11          | 88.28  | 92.12          |                      | 0.81                                  | 123.87           | 33.81          | 0.07<br>0.06                          |
| North Main reach 2 North Main re | Control of the Contro | 155846  | 188.00<br>515.00 | 87.31          | 95,30<br>96,88 | 88.76<br>90.02                                   | 95.31<br>96.92 | 0.000036             | 0.78<br>1.62                          |                  | 43.18<br>47.83 | 0.00                                  |
| North Main reach 2 North Main re | 2  | 15 3846   | 313.00           | 87.31          | 50.00          | 80.02  | 50.52          | 0.000134             | 1.02                                  | 310.20           | 47.83          | 0.17                                  |
| North Main reach 2 North Main re | 5  | 1:5779  | 40.00            | 87.31          | 88.88          | 87.70  | 88.89          | 0.000235             | 0.82                                  | 48.68            | 33.28          | 0.12                                  |
| North Main reach 2 North Main re |  | 158779  | 100.00           | 87.31          | 92.11          | 88.02  | 92.11          | 0.000033             | 0.58                                  |                  | 42.64          | 0.05                                  |
| North Main reach 2 North Main re |  | 155779  | 188.00           | 87.31          | 95.30          | 88.39  | 95,30          | <del>,</del>         | 0.59                                  |                  | 51.45          | 0.04                                  |
| North Main reach 2 North Main re |  | 155779  | 515.00           | 87.31          | 96.87          | 89.38  | 96.90          | <del></del>          | 1.27                                  |                  | 55.81          | 0.08                                  |
| North Main reach 2 North Main re | HIRITANA NA  | la z z z z  | L                |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2 North Main re | 2  | 155696  | 40.00            | 87.31          | 88.84          | 87.78  | 88.86          | ·                    | 1.09                                  |                  | 26.02          | 0.16                                  |
| North Main reach 2 North Main re |  | 155696  | 100.00           | 87.31          | 92.09          | 88.16  | 92.10          | <del>+</del>         | 0.74                                  |                  | 35.24          | 0.07                                  |
| North Main reach 2   |  | 155696  | 188.00           | 87.31          | 95.28          | 88.60  | 95.29          | <del>,</del>         | 0.71                                  | 263.15           | 44.43          | 0.05                                  |
| North Main reach 2   | 2  | 155696  | 515.00           | 87.31          | 96.85          | 89.76  | 96,89          | 0.000119             | 1.53                                  | 338.47           | 48.95          | D.10                                  |
| North Main reach 2   |  | 10-4-18-0, 3-4  | <del></del>      |                |                | 87.06  | 88,64          | 0.000.               | 0.82                                  | 48.95            | 26.96          | 0.11                                  |
| North Main reach 2   |  | 154900  | 100.00           | 86.57<br>86.57 | 88.63<br>92.05 | 87.06  | 92.06          | <del></del>          | 0.63                                  | <del></del>      | 37.28          | 0.05                                  |
| North Main reach 2   | An America Adv.  | 154900<br>154900  | 188.00           | 88.57          | 95.26          | 87.90  | 95.26          | +                    |                                       |                  | 46.94          | 0.05                                  |
| North Main reach 2  |  | 154900  | 515.00           | 86.57          | 96.78          | 89.08  | 96.81          | <del></del>          | +                                     | <del></del>      | 51.52          | 0.09                                  |
| North Main reach 2  |  | 3.00  |                  | 55.67          |                |  |                | 1                    |                                       | 1                |                |                                       |
| North Main reach 2   |  | 153295  | 40.00            | 85.60          | 88.42          | 86.21  | 88.43          | 0.000105             | 0.72                                  | 55.63            | 24.51          | 0.08                                  |
| North Main reach 2  |  | 153295  | 100.00           | 85.60          | 92.00          | 86.68  | 92,00          | 0.000031             | 0.61                                  | 164.14           | 36.16          | 0.05                                  |
| North Main resch 2   |  | 153295  | 188.00           | 85.60          | 95.23          | 87.20  | 95.23          | 0.000022             | 0.63                                  | 298.59           | 47.20          | 0.04                                  |
| North Main reach 2  | 2  | 153295  | 515.00           | 85.60          | 96.63          | 88.55  | 96.66          | 0.000093             | 1.40                                  | 388.00           | 52.05          | 0.09                                  |
| North Main reach 2  | 75 1 2 2 7 2 P   | M Life by   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   | 2  | 153200  | 40.00            | 85.60          | 88.41          | 86.21  | 88.41          | 0.000106             |                                       |                  | 24.46          |                                       |
| North Main reach 2  | 2  | 153200  | 100.00           | 85.60          | 91.99          | 86.68  | 91.99          |                      | 0.61                                  | 163.74           | 36.12          | 0.05                                  |
| North Main reach 2  | 111 0 0 0000   | 153200  | 188.00           | 85.60          | 95.22          | 87.20  |                |                      | · · · · · · · · · · · · · · · · · · · | <del></del>      |                |                                       |
| North Meln reach 2   | 2  | 153200  | 515.00           | 85.60          | 96.61          | 88.54  | 96.64          | 0.000094             | 1.40                                  | 367.02           | 51.98          | 0.09                                  |
| North Meln reach 2   |  | 452000  | 40.00            | 85.22          | 88.38          | 85.96  | 88.39          | 0.000058             | 0.56                                  | 70.88            | 28.93          | 0.06                                  |
| North Main reach 2   | 1 1940 5411  | 152900  | 100.00           | 85.22          | 91.98          | 86.37  | 91.96          |                      |                                       |                  | 40.41          | 0.04                                  |
| North Main reach 2  | 170 1700 1700 1700 1   | 152900  | 188,00           | 85.22          | 95,21          | 86.82  | 95.22          | ·                    | 0.55                                  |                  | 50.86          | <del></del>                           |
| North Main reach 2  |  | 152900  | 515.00           | 85.22          | 96.59          | 88.03  |                |                      | 1.24                                  |                  | 55.31          | 0.08                                  |
| North Main reach 2  |  |   |                  |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   | 2  | 150900  | 40.00            | 84.97          | 88.30          | 85.46  | 88.31          | 0.000031             | 0.45                                  | 89.85            | 32.92          | 0.05                                  |
| North Main reach 2  | 2  | 150900  | 100.00           | 84.97          | 91.95          | 85.85  | 91.96          |                      |                                       | +                | +              |                                       |
| North Main reach 2   | 2  | 150900  | 188.00           | 84.97          | 95.19          |  | 95.20          |                      |                                       |                  | 56.95          |                                       |
| North Main reach 2   | 2  | 150900  | 515.00           | 84.97          | 96.48          | 87,43  | 96.50          | 0.000048             | 1.08                                  | 475.62           | 61.49          | 0.07                                  |
| North Main reach 2   |  |   |                  |                |                | 25.04  | 00.00          | 0.000046             | 0.34                                  | 110.01           | 37.81          | 0.03                                  |
| North Main reach 2  | 2  | 150637  | 100.00           | 84.27          | 88.29<br>91.95 | 85.01<br>85.36                                   | 88.30<br>91.95 |                      |                                       | +                | <del></del>    | 0.03                                  |
| North Main reach 2   |  | 150637<br>150637  | 188.00           |                | 95.19          |  |                |                      |                                       |                  |                | <del></del>                           |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   |  | 150637  | 515.00           |                | 96.46          |  | 96.49          | +                    | <del></del>                           |                  |                |                                       |
| North Main reach 2   |  | 17.7  | 1                | 1              | 1              | 1  | T              | 1                    |                                       |                  |                |                                       |
| North Main reach 2   | 2  | 150569  | 40.00            | 84.27          | 88.28          | 85.01  | 88.29          | 0.000016             |                                       |                  |                |                                       |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  |  | 150569  | 100.00           |                | 91.95          | *  |                | +                    |                                       |                  |                | <del> </del>                          |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | 12   | 150569  | 188,00           |                | 95.19          | ,  |                | +                    | <del></del>                           |                  |                |                                       |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | 12   | 150569  | 515.00           | 84.27          | 96.47          | 86.81  | 96.49          | 0.000046             | 0.92                                  | 559,87           | 91.83          | 0.07                                  |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   | Herteristasi   |   | 1                | ļ              | <u> </u>       | ļ  | ļ              |                      | J                                     |                  |                | ļ                                     |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | The second of the second of the second   | 148900  | 40.00            |                | 88.25          |  | <del></del>    | <del></del>          |                                       |                  | 4              | +                                     |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2  | -  | 148900  | 100.00           |                | 91.93          |  |                |                      |                                       |                  | +              | · · · · · · · · · · · · · · · · · · · |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   |  | 148900  | 188.00           |                |                | - <del> </del>                                   |                |                      |                                       |                  |                |                                       |
| North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2   | 164 50 34 34   | 140900  | 3,3,00           |                | 50.00          | 50,80  | 1              | 3.00004              | 1                                     | 1                |                | 1                                     |
| North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2<br>North Main reach 2   | 12   | 147966  | 40.00            | 83.76          | 88.23          | 84.95  | 88.2           | 3 0.000073           | 0.68                                  | 58.91            | 20.33          | 0.0                                   |
| North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2 North Main reach 2   |  | 147966  | 100.00           |                |                | +  | +              |                      |                                       |                  |                |                                       |
| North Main reach 2  North Main reach 2  North Main reach 2   |  | 147966  | 188.00           | <del></del>    |                |  |                | 7 0.00002            |                                       | 271.05           | 41.27          | 7 0.05                                |
| North Main reach 2<br>North Main reach 2   |  | 147966  | 515.00           |                |                | <del></del>                                      |                | 4 0.00013            | 1.6                                   | 1 319.99         | 45.39          | 0.1                                   |
| North Main reach 2   | årgaget kel  |   |                  |                |                |  | L              |                      |                                       | ļ                |                | <u> </u>                              |
|  | n2   | 147814  | 40.00            | <del></del>    |                | <del>                                     </del> |                |                      |                                       |                  |                |                                       |
| North Main reach 2   |  | 147814  | 100.00           |                |                | · · · · · · · · · · · · · · · · · · ·            |                |                      |                                       |                  |                |                                       |
|  |  | 147814  | 188.00           |                |                |  |                |                      | +                                     |                  |                | +                                     |
| North Main reach 2   | 12   | 147814  | 515.00           | 83,76          | 96.2           | 87.5   | 96.3           | 2 0.00008            | 3 1.3                                 | 5 382.2          | 3 51.9         | 9 0.0                                 |
|  | ging dilipaga<br>Na  | 6   10   30   31   31   32   33   34   34   34   34   34   34 | 1                |                |                | <del></del>                                      | ,              | 0.00004              | в 0.3                                 | 400.00           | 2 29.9         | 5 0.0                                 |
| North Main reach 2   |  | 146900  | 40.00            |                | +              |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2   |  | 148900  | 100,00           |                |                |  |                |                      |                                       |                  |                |                                       |
| North Main reach 2<br>North Main reach 2   |  | 146900  | 515.00           |                |                |  |                |                      |                                       |                  |                | +                                     |

2AQ. Plan: P 25% 3 (Continued) River Min Ch El W.S. Elev Reach River Sta O Total Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (ft/ft) (ft/e) (aq ft) (ft) North Mair reach 2 145333 40.00 83.11 83.73 68.18 88.16 0.000012 0.34 119.07 32,22 0.03 North Mair reach 2 45333 100.00 83.11 91.89 84.20 91.89 0.000009 0.38 262.13 45.25 0.03 North Mak reach 2 145333 188.00 83,11 95.13 84.73 95,14 0.00000B 0.44 429.46 57.85 0.03 North Mair reach 2 145333 96.16 86.08 96.17 0.000044 1.05 490.56 61.67 0.07 North Main reach 2 145285 40.00 R3 11 RR 18 83.73 88.18 0.000012 0.34 118.97 32.21 0.03 North Main reach 2 145285 100.00 83.11 91.89 84.20 91.89 0.000009 0.38 262.03 45.24 0.03 145285 reach 2 188.00 83.11 95.13 84 73 95 13 0.000008 0.44 429.34 0.03 45285 reach 2 515.00 83.11 96.16 86.08 96.17 0.000030 0.87 1054.48 2238.74 0.05 North Main reach 2 144900 40.00 83.06 88.18 83.58 88.18 0.27 0.000007 149.03 37.57 0 02 North Mair reach 2 144900 100.00 83.06 91.88 83.95 91.89 0.000000 0.32 310.78 49.66 0.02 North Main each 2 144900 188.00 83.06 95.13 84.39 95.13 0.000006 0.38 567.95 503.36 0.02 North Main reach 2 144900 515.00 83,06 96.15 85.56 96.16 0.000019 0.73 1732.87 2335.24 0.04 North Main reach 2 44259 482.00 78,00 88.11 80.37 88.14 0.000062 1 34 350 A7 49 86 0.09 North Main reach 2 44259 1051.00 78.00 91.79 81.85 91.84 0.000079 1.88 563.64 81.85 0.10 North Male reach 2 144259 1858.00 78.00 94.98 83.44 95.08 0.000097 2.51 779.97 73.71 0.12 North Mair ch 2 144250 4804.00 78.00 95.35 87.38 95.92 0.000562 6.15 1416.59 7575.15 0.29 North Main 144227 reach 2 Culvert North Main reach 2 482.00 78.00 88.00 80.37 88.03 0.000065 1.36 354.22 49.55 0.09 North Mak 14196 1051.00 78,00 91.21 81.85 91.27 0.000098 2.00 528.24 59.68 0.11 North Mair reach 2 144190 1858 00 78.00 **B3.44** 0.000159 93.33 2.91 654.54 0.15 67.09 North Mair reach 2 144196 4804.00 78.00 95.37 87.38 95.90 0.000537 6.02 1658.29 7700.76 0.29 North Mair 482.00 87.92 reach 2 143766 80.00 B3.00 87 98 0.000190 1 95 246.95 47.42 0.15 North Main reach 2 143758 1051.00 80.00 91.10 84.48 91.20 0.000198 2.53 416.87 59.29 0.16 North Main reach 2 43786 1858.00 80.00 85.98 93.03 93,22 0.000287 3.55 538.10 68 46 0.20 North Main 43766 each 2 4804.00 80.00 95.43 69.71 95.55 8005.10 0.000255 3.89 8954,42 0.20 North Main reach 2 142844 482.00 80.00 87.7 82.81 87.81 0.00016 261.57 49.49 0.14 North Main reach 2 142844 1051.00 80.00 90.94 84,19 91.03 0.000178 2.41 437.08 61.03 0.15 North Min 142844 1858.00 reach 2 80.00 92.79 85.64 92.97 0.000266 3.42 556.31 67.80 0.20 Yorth Main 80.00 ich 2 95.33 89.27 95.38 0.000122 2.72 11669.65 9169 02 0.14 each 2 North Main 42821 Bridge North Mair ach 2 142771 482.00 80.00 87.73 82.51 87.79 0.000163 1.85 280.70 48.47 0.14 North Main reach 2 142771 1051.00 80.00 90.90 83.97 91.00 0.000181 2.43 433.25 60.03 0.16 North Main reach 2 142771 1858.00 80.00 92.75 85.52 92.93 0.000272 3 45 549 63 0.20 North Main 142771 4804.00 reach 2 80.00 95.18 89.25 95.30 0.000237 3.76 8200.68 8923.34 0.19 482.00 141205 North Main sech 2 80.00 87.50 82.38 87.55 0.000147 1.78 271.28 49.45 0.13 North Main reach 2 141205 1051.00 80.00 90.64 83.70 90.73 0.000171 2.38 443.07 59.96 0.15 North Main ach 2 141205 1858.00 80.00 92.33 85.15 92.52 0.000273 3.43 549.55 65.68 0.20 North Main each 2 141205 4804.00 80.00 94,96 88.76 95.01 0.000125 11454.08 2.73 0.14 North Mein 140152 87.31 each 2 482.00 80.00 82.62 87.37 0.000201 1.95 246 94 50 18 0.16 North Main reach 2 140152 1051.00 80.00 90.44 84.06 90.53 0.000209 2.47 425.06 63,79 0.17 40152 North Main 1858.00 92.02 85,54 92.21 0.000327 3.55 531.00 70.58 0.22 North Main 140152 4604.00 wach 2 80.00 0.000131 2.72 11245.37 9008.33 0.14 North Main each 2 140137 Bridge North Main 140107 78.00 87.32 reach 2 482.00 80.62 87.35 0.000087 1.48 330.20 54.18 0.10 North Main sech 2 140107 1051.00 78.00 90.44 82.15 90.50 0.000117 2.03 519.22 66.79 0.13 North Mair each 2 140107 1858.00 78.00 91.89 83.72 92.04 0.000209 3.03 620.67 72.71 0.17 North Main each 2 140107 4804.00 78,00 94 80 87.47 94.83 0.000069 2.36 11292.51 6547.77 0.12 North Main 87.22 138870 482.00 78.00 60.28 87.26 reach 2 0.000066 1.70 359.15 56 07 0.10 North Main reach 2 138870 1051.00 90.28 78.00 81.68 90.37 0.000109 2.65 548.08 67.43 0.13 North Main each 2 138870 1858.00 78.00 91.52 91.75 83.25 0.000237 4.17 634.53 72.06 0.20 North Mair sach 2 4804.00 78.00 94.70 87.46 94.73 0.000081 13694.88 2.82 8905.17 0.12 North Majo urb 2 137387 482 00 78.00 87 12 80.28 87.18 0.000069 1.72 353.60 55.82 0.10 North Main each 2 137387 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537,49 67.02 0.14 137387 1858.00 North Main reach 2 78.00 91.14 83.26 91.39 0.000264 4.32 608.10 70.84 0.21 North Mai 137387 78.00 each 2 4804.00 94.26 87.47 94.51 0.0003111 5.43 4571.58 8307.18 0.24 87.16 North Main each 2 137364 482.00 78.00 87.11 80.28 0.000069 1.72 353.27 55.80 0.10 North Mair auch 2 137384 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537.36 67.01 0.14 North Main each 2 137364 1858.00 78.00 91.13 83.26 91.39 0.000265 4 33 607 78 70.83 0.21 North Main reach 2 137384 4804.00 78.00 94.26 87.48 94.50 0.000313 5 44 4560.37 8302.15 0.24 North Main 137349 each 2 Bridge North Main reach 2 137334 482.00 78 00 87.09 80.28 87.14 0.000070 1.73 352.29 55.73 0.10 North Main reach 2 137334 1051.00 78.00 90.10 81.69 90.21 0.000115 2.70 536,98 66.99 0.14 North Main reach 2 137334 1858 00 78 00 91 12 83.26 91.38 0.000288 4.33 606.81 70.77 0.21 North Main reach 2 137334 4804.00 78.00 93.72 87.47 94.24 0.000552 7.06 2870.15 7107.29 0.32

HEC-DAS Plan: P 25% 3 (Continued) River Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chrit Flow Area Top Width Frouds # Chil (cla) (ft) (ft) (ft) (11) (ft/ft) (fl/s) (8q ft) North Main reach 3 (south) 269920 1306.00 70.27 76.73 73,60 77.03 0.001290 4.37 299.05 58.43 0.34 North Main 269920 77.94 reach 3 (south 1925.00 70.27 74,51 78.36 0.001499 5.17 372.65 62.98 0.37 79.25 North Main reach 3 (south) 269920 2703.00 70.27 75.50 79.79 0.001652 5.90 457.92 67.82 0.40 North Main reach 3 (south) 269920 5237.00 70.27 82.04 78.02 82.14 0.000740 3.57 3567.10 2732.52 0.26 North Main reach 3 (south) 289788 1306 00 70.27 76.52 73.60 76.84 0.001453 4.55 286.91 57.64 0.36 North Main reach 3 (south) 269768 1925.00 70.27 77.69 74.51 78.14 0.001694 5,39 356 90 62.04 0.40 North Main reach 3 (south) 269788 2703.00 70.27 78.96 75.50 79.55 0.001864 6 16 438 68 66.76 0.42 North Main reach 3 (south) 269788 5237.00 70.27 81.92 78.02 82.03 0.000893 3.69 3288.33 2251.74 0.29 155.11 North Main reach 3 (south) 269131 1306.00 70.27 73,68 74.78 .00969 8.42 52.64 0.86 North Main reach 3 (south) 269191 1925.00 70.27 74.98 74.22 76.10 0.006790 8.48 57.88 226.98 0.75 77.87 0,004816 North Main reach 3 (south) 269131 2703.00 70.27 78.61 75.13 8.27 326.78 64.25 0.65 North Main each 3 (south) 269131 5237.00 70.27 78.80 77.51 80.68 0.005858 10.98 476.75 72.58 0.76 North Main reach 3 (south) 269121 Inline Weir North Main reach 9 (south) 269108 1306.00 65.34 73.37 68.57 73.55 0.000600 3.39 385.42 60.47 0.24 North Main reach 3 (south) 269108 1925.00 65.34 74.97 69.48 75.21 0.00068 3.96 66.18 0.26 North Main each 3 (south) 269108 2703.00 65.34 76.60 70.48 0.000758 4.51 76.92 599.87 72.47 0.28 each 3 (south) North Main 269108 5237.00 65.34 78.80 73.11 79.52 0.00146 6.81 769.02 82.03 0.39 North Main 1306.00 65.34 72.71 68.42 reach 3 (south) 208000 72.88 0.000607 3.24 403.06 70.66 0.24 North Main 268000 1925.00 65.34 74.25 69.26 74.47 0.000653 516.79 reach 3 (south) 3.72 77.30 0.25 North Main 268000 2703.00 65.34 75.83 70.19 4.20 644.01 84.25 reach 3 (south 76.10 0.00069 0.27 North Main each 3 (south) 5237.00 65.34 76.91 72.53 77.69 0.00185 7.10 738.11 90.27 0.44 North Main reach 3 (south) 66698 1306.00 65.32 71.70 68.31 71.91 0.000927 3 70 352 65 70.04 0.29 North Main reach 3 (south) 66698 1925.00 65.32 73.19 69.13 73.46 0.000930 4.17 462.15 76.83 0.30 North Main 20000 74.72 585.05 ch 3 (south 2703.00 65.32 70.01 75.05 0.000943 4.62 83.80 0.31 North Main 65.32 75.86 72.28 76.05 0.000744 4.37 each 3 (south) 66698 5237.00 3985.07 3381.17 0.28 North Main each 3 (eouth) Inline Weir North Main reach 3 (south) 266679 1306.00 81.46 71.69 64.54 71,76 0.000171 2.07 629.71 82.41 0.13 North Main 266679 1925.00 73.18 65.38 0.000221 757.00 reach 3 (south) 61,46 73.28 2.54 88.24 0.15 North Main 266679 2703.00 61,46 74.71 66.24 74.85 0.000273 3.02 reach 3 (south) 896.25 94.37 0.17 North Main each 3 (south) 66679 5237.00 61.46 75.8 76.01 0.000360 3.61 4351.03 3392.85 0.20 North Main 1306.00 59.80 71.62 62.86 71.66 0.000103 1.73 752.84 each 3 (south) 66000 87.29 0.10 North Main reach 3 (south) 266000 1925.00 59.80 73.08 63.72 73.15 0.000142 2.18 884.70 92.95 0.12 North Main reach 3 (south 266000 2703.00 59.80 74.59 64 63 74.69 0.00018 2.60 1262 96 1318.08 0 14 North Main each 3 (south) 266000 5237.00 59.80 75.67 66.95 75.79 0.000275 3.33 4525.36 3331.36 0.18 71.54 59.80 North Main 63.58 71.60 2.06 B2.94 0.13 reach 3 (south) 265565 1306.00 0.000168 634.81 North Main reach 3 (south) 265585 1925.00 59.80 72.97 64.54 73.07 0.000225 2.54 758.97 90.18 0.15 2360.50 2703.00 59.80 74.52 65.56 74.60 0.000199 2377.27 North Main each 3 (south) 2.54 0.15 North Main 68.12 reach 3 (south) 5237.00 59.80 75.60 75.67 0.000213 2.73 6338.50 3900.86 0.15 266565 63.58 71.59 0.000168 2,06 634.01 82.89 0.13 North Main reach 3 (south) 265509 1306.00 59.80 71.53 North Main 265509 1925.00 59,80 72.96 64.54 2.54 73.06 0.000226 757.79 90.12 reach 3 (south) 0.15 265509 2703.00 59.80 74.51 65.57 74.59 0.000202 2.55 2331.01 2296.11 0.15 North Main each 3 (south) sech 3 (south) 265509 5237.00 59.80 75.60 68.13 75.66 0.00021 6306.54 3900.59 0.15 North Main each 3 (south) 264000 1306 00 59.75 71.31 63.05 71.36 0.000136 1.95 668 62 79 67 0 12 North Main reach 3 (south) 264000 1925.00 59.75 72.65 63.91 72.74 0.000194 2.47 778.93 84.66 0.14 74.34 3320.50 North Main reach 3 (south) 264000 2703.00 59.75 64.86 74.37 0.000097 1.84 4641.94 0.10 5237.00 59.75 75.37 67.30 75.40 0.000133 1.83 8449.08 3870.91 North Main 264000 0.12 each 3 (south) North Main each 3 (south) 62000 1306.00 59.40 71.02 62 70 71 08 0.000146 2.01 648 65 77 AR 0.12 North Main reach 3 (south) 62000 1925.00 59.40 72 23 63 63 72 33 0.000217 2 58 745.10 82.03 0.15 North Main reach 3 (south) 262000 2703.00 59.40 73.82 64.61 73.94 0.000815 2.75 981.63 279.16 0.26 North Main reach 3 (south) 262000 5237.00 59.40 75.09 67.14 75.10 0.000152 1.34 7455.10 3741.01 0.12 North Main 1565.00 59.40 70.68 63.04 70.74 0.000212 1.94 805.40 140.41 0.14 reach 3 (south) 260000 59.40 71.75 63.96 71.84 0.000272 1144.03 North Main reach 3 (south) 260000 2291.00 2.33 664.39 0,16 North Main 3206.00 59 4D 73.06 64.96 73.13 0.000254 2.32 2044.48 718.94 0.16 reach 3 (south 260000 North Main each 3 (south 260000 6165.00 59.40 74.78 67.44 74.82 0.000214 2.00 6314.47 2312.22 0.15 1565.00 North Main reach 3 (south) 258000 58.66 70.33 62.05 70.40 0.000137 2.01 777.24 89.81 0.12 58.66 71.24 North Main 258000 2291.00 62.90 71.35 0.000222 2.67 859.66 93.19 0.15 reach 3 (south) North Mair 258000 58.66 72.42 63.83 72.58 0.000296 3.24 1266.59 1002.79 0.18 3206.00 reach 3 (south) 74.26 3345.60 North Main 258000 6165.0 58.66 66.26 74.36 0.000254 3.21 5939.65 0.17 each 3 (south) North Main each 3 (south) 258681 1565.00 58 71 70 13 62 22 70 20 0.000163 2 12 739 87 91 14 0.13 North Main reach 3 (south) 256681 2291.00 58.71 70.90 63.12 71.02 0.000271 2.82 811.17 94.63 0.17 58.71 72,28 0.000146 3862.57 2424.74 North Main reach 3 (south) 256681 3206.00 72.23 64.09 2.19 0.13 58.71 74.10 74.11 10148.54 66.57 3993.69 0.11 North Main reach 3 (south) 256681 6165.00 0.000120 1.39 58.27 70.12 70.14 0.00004 1.21 1297.21 138.87 0.07 North Main 256121 1565.00 60.74 reach 3 (south) 58.27 70.88 61.35 70.93 0.000073 1.63 1404.58 142 30 0.09 North Main reach 3 (south) 256121 2291.00 reach 3 (south) North Main 256121 3206.00 58.27 72.13 62 02 72.19 0.000186 1.96 1638.10 2498.00 0.14 North Main reach 3 (south) 256121 6165.00 58.27 74.07 63 78 74.08 0.000041 1 03 12733.36 3702.03 0.07

| River                                    | Reach                            | River Sta  | Q Total | Min Ch EJ   | W.S. Elev   | Crit W.S.   | E.G. Elev   | E.G. Slope  | Vel Chnt | Flow Area   | Top Width   | Froude # CN  |
|--|----------------------------------|--|---------|-------------|-------------|-------------|-------------|-------------|----------|-------------|-------------|--------------|
| 414 81 544                               |                                  |  | (cfa)   | (ft)        | (fi)        | (ft)        | (ft)        | (ft/ft)     | (lt/s)   | (sq ft)     | (ft)        |              |
|  |                                  |  |         |             |             |             |             |             |          |             |             |              |
| iorth Main                               | reach 3 (south)                  | 255591   | 1585.00 | 58.07       | 70.06       | 61.69       | 70.11       | 0.000139    | 1.75     | 1127.61     | 2907.24     | 0.1          |
| iorth Main                               | reach 3 (south)                  | 255591   | 2291.00 | 58.07       | 70.80       | 62.56       | 70.87       | 0,000197    | 2.15     | 1496.15     | 3087.44     | 0.1          |
| lorth Main                               | reach 3 (south)                  | 255591   | 3206.00 | 58.07       | 72.02       | 63.50       | 72.07       | 0.000215    | 2.14     | 2421.14     | 3427.10     | 0.1          |
| lorth Main                               | reach 3 (south)                  | 255591   | 6165.00 | 58.07       | 74.08       | 65.91       | 74.06       | 0.000020    | 0.69     | 17499.46    | 3508.43     | 0.0          |
|  |                                  |  |         |             |             |             |             |             |          |             |             |              |
| forth Main                               | reach 3 (south)                  | 254845   | 1565.00 | 58.07       | 70.01       | 61.47       | 70.03       | 0.000066    | 1.39     | 2741.59     | 3930.14     | 0.0          |
| lorth Main                               | reach 3 (south)                  | 254845   | 2291.00 | 58.07       | 70.74       | 62.33       | 70.75       | 0.000103    | 1.16     | 4195.98     | 4065.78     | 0,1          |
| iorth Main                               | reach 3 (south)                  | 254845   | 3208.00 | 58.07       | 71.99       | 63.25       | 71.99       | 0.000055    | 0.89     | 6874.98     | 4248.41     | 0.0          |
| lorth Main                               | reach S (south)                  | 254845   | 6165.00 | 58.07       | 74.05       | 65.65       | 74.05       | 0.000010    | 0.49     | 23448.63    | 4330.39     | 0.0          |
| 100000000000000000000000000000000000000  |                                  | X - 47 2 2 2   |         |             |             |             |             |             |          |             |             |              |
| Vorth Main                               | reach 3 (south)                  | 254785   | 1565.00 | 58.07       | 70.01       | 61.47       | 70.03       | D.000066    | 1.39     | 2740.58     | 3930.09     | 0.0          |
| forth Main                               | reach 3 (south)                  | 254765   | 2291.00 | 58.07       | 70.72       | 62.33       | 70.73       |             | 1.17     | 4163.62     | 4064.25     | 0.1          |
| lorth Main                               | reach 3 (south)                  | 254765   | 3206.00 | 58.07       | 71.98       | 63.25       | 71.99       | 0.000056    | 0.89     | 6854.98     | 4247.61     | 0.0          |
| lorth Main                               | reach 8 (south)                  | 254765   | 6165.00 | 58.07       | 74.04       | 65.65       | 74.04       | 0.000010    | 0.49     | 23401.74    | 4330.28     | 0.0          |
|  |                                  | Mark York to a   |         |             |             |             |             |             |          |             |             |              |
| orth Main                                | reach 8 (south)                  | 254000   | 1565.00 | 58.07       | 70.01       | 61.55       | 70.01       | 0.000016    | 0.70     | 7019.77     | 4062.78     | D,0          |
| lorth Main                               | reach 9 (south)                  | 254000   | 2291.00 | 58.07       | 70.69       | 62.46       | 70.69       | 0.000019    | 0.64     | 9137.96     | 4126.27     | 0.0          |
| orth Main                                | reach 3 (south)                  | 254000   | 3206.00 | 58.07       | 71.96       | 63.44       | 71.96       | 0.000013    | 0.55     | 13188.50    | 4247.87     | 0.0          |
| orth Main                                | reach 3 (south)                  | 254000   | 6165.00 | 58.07       | 74.03       | 65.99       | 74.03       | 0.000008    | 0.51     | 25296.38    | 4274.37     | 0.0          |
|  | A STATE OF THE SECOND CONTRACTOR | 32 323   |         |             |             |             |             |             |          |             |             |              |
| orth Main                                | reach 3 (south)                  | 252000   | 1585.00 | 58.08       | 69.78       | 61.85       | 69.85       | 0.000278    | 2.19     | 715.22      | 128.91      | 0.1          |
| orth Main                                | reach S (south)                  | 252000   | 2291.00 | 58.08       | 70.66       | 62.80       | 70.66       | 0.000021    | 0.64     | 8678.69     | 5956.97     | 0.0          |
| orth Makr                                | reach 3 (south)                  | 252000   | 3206.00 | 58.08       | 71.94       | 63.81       | 71.94       | 0.000013    | 0.57     | 12479.89    | 5964.99     | 0.0          |
| orth Main                                | reach 3 (south)                  | 252000   | 6165.00 | 58.08       | 74.01       | 66.38       | 74.01       | 0.000009    | 0.55     | 23821.92    | 5975.64     | 0.0          |
| Complete Street                          | 0 1200 120 120 120 120 120 120   | A 65% - 12 - 1   |         |             |             |             |             |             |          |             |             |              |
| orth Main                                | reach 3 (south)                  | 250860   | 1565.00 | 57.32       | 69.53       | 60.90       | 69.58       | 0.000199    | 1.67     | 937.80      | 194.03      | 0.           |
| korths Main                              | reach 3 (south)                  | 250860   | 2291.00 | 57.32       | 70.63       | 61.84       | 70.63       | 0.000041    | 0.81     | 5170.82     | 4955.99     | 0.0          |
| korth Mein                               | reach 3 (south)                  | 250860   | 3206.00 | 57.32       | 71.92       | 62,84       | 71.93       | 0.000030    | 0.80     | 7125.76     | 4961.09     | 0.0          |
| lorth Main                               | reach 3 (south)                  | 250860   | 6165.00 | 57.32       | 73.99       | 55.39       | 73.99       | 0.000036    | 1.00     | 10259.75    | 4982.23     | 0.0          |
| 2000                                     |                                  | P. (1)   |         |             |             |             |             |             |          |             |             |              |
| lorth Main                               | reach 3 (south)                  | 250000   | 1630.00 |             | 69.42       | 60.32       | 69.46       | 0.000093    | 1.60     | 1015.72     | 128.14      | 0.           |
| lorth Main                               | reach 8 (south)                  | 250000   | 2428.00 | 57.29       | 70.59       | 81.17       | 70.60       | 0.000053    | 0.91     | 5353.60     | 5016.13     | 0.           |
| orth Main                                | reach S (south)                  | 250000   | 3444.00 | 57.29       | 71.90       | 82.10       | 71.91       | 0.000033    | 0.81     | 8065.83     | 5056.93     | 0.           |
| orth Main                                | reach 3 (south)                  | 250000   | 6802.00 | 57.29       | 73.98       | 64.50       | 73.98       | 0.000007    | 0.42     | 30398.52    | 5098.31     | 0.           |
| Täikuni                                  | Contract Contract                | 1.00   |         |             |             |             |             |             |          |             |             |              |
| lorth Main                               | reach 3 (south)                  | 248748   | 1630.00 | 57.29       | 69.22       | 60.88       | 69.29       | 0.000228    | 2.08     | 789.79      | 131.96      | 0.           |
| lorth Main                               | reach 3 (south)                  | 248748   | 2428.00 | 57.29       | 70.47       | 61.88       | 70.50       | 0.000219    | 1.78     | 2197.09     | 3903.90     | 0.           |
| lorth Main                               | reach 3 (south)                  | 248748   | 3444.00 | 57.29       | 71.82       | 62.94       | 71.85       | 0.000136    | 1.63     | 3473.02     | 3915.58     | 0.           |
| iorth Main                               | reach 3 (south)                  | 248748   | 6802.00 | 57.29       | 73.97       | 65.66       | 73.97       | 0.000013    | 0.61     | 22145.65    | 3933.06     | 0.           |
| Tricklik Sin                             | Charles Andrews                  | COST FATE V  |         |             |             |             |             | 1           |          |             |             |              |
| orth Main                                | reach 3 (south)                  | 248519   | 1630,00 | 57.29       | 69.17       | 60.88       | 69.24       | 0.000225    | 2.08     | 783.B5      | 127.92      | 0.1          |
| iorth Main                               | reach 3 (south)                  | 248519   | 2428.00 | 57.29       | 70.42       | 61.88       | 70.48       | 0.000234    | 1.79     | 2154.66     |             | 0.           |
| lorth Main                               | reach 3 (south)                  | 248519   | 3444.00 | 57.29       | 71.80       | 62.94       | 71.83       | 0.000139    |          | 3448.70     |             | 0.           |
| lorth Main                               | resols 3 (south)                 | 248519   | 6802.00 | 57.29       | 73.96       | 65.68       | 73.96       |             | 0.61     | 22115.22    | 3933.00     | 0.0          |
| 113.00 10 8                              |                                  | Wilder of the control |         | 777.        |             |             | -           |             |          |             |             |              |
| forth Main                               | reach 3 (south)                  | 248000   | 1630.00 | 57.30       | 69.05       | 61.28       | 69.13       | 0.000182    | 2.23     | 731.48      | 90.72       | 0.           |
| lorth Main                               | reach 3 (south)                  | 248000   | 2428.00 | 57.30       | 70.39       | 62.30       | 70.40       | 0.000058    | 1.22     | 5049.88     | 3888.88     | 0.           |
| iorth Main                               | reach 3 (south)                  | 248000   | 3444.00 | 57.30       | 71.78       | 63.33       | 71.79       | 0.000037    | 1.00     | 7785.02     | 3970.08     | 0.           |
| lorth Main                               | reach 3 (eouth)                  | 248000   | 6802.00 | 57.30       | 73.95       | 66.06       | 73.96       | 0.000014    | 0.87     | 22306.18    | 4017.27     | 0.           |
| NESTLAND                                 | 5 76 X4, X740.76                 | 1 4 Sept.  |         |             |             |             |             | 1           |          |             |             |              |
| lorth Main                               | reach 3 (south)                  | 247476   | 1630.00 | 57.30       | 68.68       | 66.70       | 68.90       | 0.001678    | 3.74     | 436.40      | 118.76      | 0.           |
| lorth Main                               | reach 3 (south)                  | 247476   | 2428.00 | 57.30       | 70.37       | 67.29       | 70.38       | <del></del> |          |             | 3919.16     | 0.           |
| lorth Main                               | reach 3 (south)                  | 247476   | 3444.00 |             | 71.77       |             | 71.77       | 0.000038    |          |             | 4071.42     |              |
| lorth Main                               | reach 3 (south)                  | 247476   | 6802.00 |             | 73.95       |             |             | <del></del> | -        |             |             | 0            |
| - 785 a 44                               |                                  | W. S. S. S. S.   |         | 1           |             |             |             |             |          |             |             |              |
| Vorth Main                               | reach 3 (south)                  | 247400   | 1630.00 | 57.30       | 68.58       | 66.61       | 68.77       | 0.001549    | 3.54     | 460.34      | 129,47      | 0.           |
| lorth Main                               | reach 3 (south)                  | 247400   | 2428.00 |             | 70.37       |             |             |             |          |             |             |              |
| forth Main                               | reach 3 (south)                  | 247400   | 3444.00 |             | 71.77       |             |             |             |          |             | 4063.35     |              |
| forth Main                               | reach 3 (south)                  | 247400   | 6802.00 |             |             |             |             |             |          |             |             |              |
| J. J. J. J. J. J. J. J. J. J. J. J. J. J |                                  | The defenden   |         |             |             |             |             |             |          |             |             |              |
| lorth Main                               | reach 3 (south)                  | 246000   | 1630.00 | 57.05       | 68.06       | 60.62       | 68.14       | 0.000196    | 2.25     | 724.18      | 94.02       | 0            |
| lorth Main                               | reach 3 (south)                  | 248000   | 2428.00 |             |             |             |             |             | 1.56     |             |             |              |
| lorth Main                               | reach 3 (south)                  | 248000   | 3444.00 | <del></del> |             |             | <del></del> |             |          |             |             |              |
| forth Main                               | reach 3 (south)                  | 248000   | 6802.00 |             |             |             |             |             |          |             |             |              |
| a giradadi fira                          | E HORE IN THE PROPERTY.          | ( 1938-198-198-198-198-198-198-198-198-198-19  |         | 1           |             | T           |             | 1           |          |             |             | 1            |
| iorth Main                               | reach 3 (south)                  | 244000   | 1630.00 | 57.05       | 67.42       | 61.42       | 67.57       | 0.000431    | 3.07     | 530.55      | 77.52       | 0            |
| orth Main                                | reach 3 (south)                  | 244000   | 2428.00 |             |             |             |             |             |          | <del></del> |             |              |
| orth Main                                | reach 3 (south)                  | 244000   | 3444.00 |             |             |             |             |             |          | <del></del> |             |              |
| orth Main                                | reach 3 (south)                  | 244000   | 6802.00 |             |             |             |             |             |          |             |             |              |
|  |                                  |  |         |             |             |             | 1           |             | 1        |             | 1           | T            |
| lorth Main                               | reach 3 (south)                  | 242500   | 1630.00 | 56.61       | 66.77       | 61.05       | 66.92       | 0.000432    | 3.11     | 523.94      | 75.15       | 0            |
| lorth Main                               | reach 3 (south)                  | 242500   | 2428.00 |             | 69.12       |             |             |             |          | <del></del> |             |              |
| lorth Main                               | reach 3 (south)                  | 242500   | 3444.00 | _           | <del></del> |             | <del></del> | <del></del> | +        |             |             |              |
| lorth Main                               | mach 3 (south)                   | 242500   | 6802.00 |             | 73.87       |             |             |             |          |             |             |              |
| 10101 (5/00))                            | 2 (3) about down                 | 2.2  | 0002.00 | 33.01       | 70.0        |             | 70.07       | 3.000,040   | 1.02     | .4020.71    | 0,00.00     | ·            |
| Vorth Main                               | reach 3 (south)                  | 241505   | 1630.00 | 56.61       | 66.37       | 60.37       | 66.51       | 0.000399    | 3.03     | 537.34      | 74.90       | , ,          |
| Vorth Main                               | reach 3 (south)                  | 241505   | 2428.00 | <del></del> |             |             | <del></del> |             |          |             |             | <del></del>  |
|  |                                  |  |         | _           | 70.45       | <del></del> |             |             |          |             |             |              |
| Vorth Main                               | reach 3 (south)                  | 241505   | 3444.00 |             |             | <del></del> |             |             |          | +           | <del></del> | ·            |
| Vorth Main                               | reach 3 (south)                  | 241505   | 6802.00 | 56.61       | 73.15       | 65.41       | 73.70       | 0.000880    | 5.98     | 1138.19     | 845.1       | 0            |
| Vorth Main                               |                                  | 1040055  |         |             |             |             |             |             |          |             |             | <del> </del> |
|  | reach 3 (south)                  | 240950   | 1630.00 | 56.61       | 66.13       | 60.53       | 66.26       | 0.000440    | 3.07     | 531.06      | 79.20       | )            |

Plan: P. 25% 3 (Continued) I River Sta Q Total HEC DAS W.S. Elev Crit W.S. E.G. Elev E.G. Slope Min Ch El Vel Chnl Flow Area Rive Reach Top Width | Froude # Chi (fVs) (cfs) (ft) (11) **(ft)** (ft) (fVft) (sq ft) (ft) North Main 56.61 62.64 reach 3 (south) 240950 70.20 70,43 3444 00 0.00046 3.86 892 5 98.30 0.23 North Main 6802.00 56.61 72.65 65.42 73.20 0.000918 5.93 1147.43 327.48 each 3 (south) 0.32 240919 1630.00 66.12 60.53 66.26 0.000442 North Main each 3 (south) 56.61 3.08 529.92 79.13 0.21 ech 3 (aouth 2428.00 North Main 240919 58.61 68.51 61.55 68.68 0.000401 3.31 732.58 90.53 0.21 ech 3 (south North Main 240919 3444.00 56.61 70.18 62.64 70.42 0.000471 3.87 891.05 98.23 0.23 North Main reach 3 (south) 240919 6802.00 56.61 72.62 65.42 73.17 0.000926 5.95 1143.70 320.40 0.32 55.47 65,88 59.11 65,96 2.39 each 3 (south) 240000 1630.00 0.000225 681.19 89.07 0.15 North Main North Main 240000 2428.00 55.47 68.28 60.01 68.39 0.000223 2.68 98.80 reach 3 (south) 906.89 0.16 reach 3 (south) 3444.00 North Main 240000 55.47 69.91 60.97 70.07 0.000280 3.21 1073.20 105.40 0.18 each 3 (south) 6802.00 0.000636 North Main 55.47 72.01 63.53 72,43 5.22 1303.54 113.91 0.27 North Mair ach 3 (south) 239550 1630.00 55.23 65.77 58.93 65.86 0.000231 2.42 673.89 88.84 0.15 North Main reach 3 (south) 2428.00 55.23 68.17 59.85 68.29 0.000229 2.70 900.14 99.37 0.18 55.23 69.94 3.23 North Main reach 3 (eouth) 239550 3444.00 69.78 80.88 0.000289 1064.92 106.39 0.18 North Main 72.13 0.000684 reach 3 (south) 6802.00 55.23 71.69 63.48 5.33 1276.51 114.82 0.28 2.43 North Mair 239468 1630.00 55.23 65.75 58 93 65 R4 0.000233 672.14 88.75 0.16 each 3 (south) North Main 2428.00 55.23 68,16 59.86 68.27 0.000230 2.70 698.21 99.29 0.16 each 3 (aouth) North Main reach 3 (south 239468 3444 00 55.23 69.75 60.88 69.91 0.000291 3.24 1062.27 106.28 0.18 North Main reach 3 (south) 239468 6802.00 55.23 71.63 63.46 72.07 0.000694 5.36 1269.41 114.35 0.28 North Mein 1630.00 54.74 65.42 58.50 65.5 0.000220 2.40 679.90 86.66 0.15 each 3 (south) 238000 59.41 67.94 0.000221 North Mair reach 3 (south) 238000 2428.00 54.74 67.82 2.70 899.11 95.73 0.16 North Main each 3 (south) 238000 3444 00 54.74 69.32 80.40 69.49 0.000291 3.29 1046.44 101.40 0.18 each 3 (south) North Main 238000 6802.00 54.74 71.35 62.99 71.42 0.000232 2.84 6336.39 2475.59 0.18 58.13 65.36 2.39 681.87 85.75 0.15 North Main reach 3 (south) 237265 1630.00 54.61 65.27 0.000215 North Main 54.61 59.07 67.78 0.000219 2.70 898.8 94.95 0.15 237265 2428.00 67.67 reach 3 (south) North Main 69.27 0.000295 1038.65 101.36 0.18 reach 3 (south) 237265 3444.00 54.61 69.10 60.09 3.32 6802.00 54.61 82.75 71.30 0.000082 1.50 10072.75 2925.97 0.09 North Main ech 3 (eouth) 237265 71.29 North Mair ch 3 (south) 236620 1630.00 54.53 65.13 58.02 85.21 0.000198 2.28 715.85 91.83 0.14 North Main reach 3 (south) 236620 2428.00 54.53 67.54 58,91 67.64 0.000199 2.58 948.58 101.96 0.15 3444.00 3,15 1095.05 236620 54.53 68.93 59.89 69.09 0.00026 107.83 0.17 North Main reach 3 (south) North Main 54.53 71.26 62.45 71.27 0.000049 1.44 10945.96 2204.78 0.08 ach 3 (south) 236620 6802.00 North Mair reach 3 (south) 238000 1630.00 54.54 64.98 58.03 65.07 0.000234 2.45 665.53 86 41 0.16 North Main reach 3 (south) 236000 2428.00 54 54 67.38 58.97 67.50 0.000235 2.74 884 96 96 57 0.16 North Mair each 3 (south) 238000 3444 00 54.54 68.72 60.02 68.89 0.000321 3.38 1017.71 102.23 0.18 North Mair reach 3 (south) 236000 6802.00 54.54 71.22 62.70 71.24 0.000118 1.85 7823.69 2098.66 0.11 1630.00 54.49 64.82 58.23 64.93 0.000313 2.76 591.64 79.64 0.18 North Main reach 3 (south) 235490 North Main 235490 2428.00 67.21 59.26 67.36 0.000308 3.05 795.00 90,15 0.18 reach 3 (south North Main reach 3 (south) 3444.00 54.49 68.46 60.37 68.70 0.000425 3.77 912.83 95.71 0.22 54.49 71.07 63.23 71.13 0.000475 2.48 4240.73 1351.96 0.21 North Mair reach 3 (south 235490 6802.00 54.49 64.80 58.23 64.92 0.000315 590.39 North Main reach 3 (south 235442 1630.00 2.76 79,57 0.18 59.26 67.34 0.000310 793.61 90.08 0.18 North Main reach 3 (south) 235442 2428.00 54.49 67.20 3.06 3444.00 54.49 68.46 60.37 0.00042 3.78 910.82 0.22 235442 North Main reach 3 (south) 235442 0.000470 1346.49 0.21 North Main 6802.00 reach 3 (south) North Main reach 3 (south) 234280 1630.00 53.37 84 66 56.31 64.71 0.000098 1 73 940.13 107.55 0.10 North Main reach 3 (south 234280 2428.00 53.37 67.06 57.10 67.12 0.000107 2.01 1209.36 117.28 0.11 68.26 57.96 68.36 0.000156 2.54 1353.56 122.18 0.13 North Main reach 3 (south) 234280 3444.00 53.37 4336.86 53.37 70.50 60.26 70.59 0.000415 2.75 2123.72 0.20 6802.00 North Main reach 3 (south) 234280 North Main below diversion 112500 785.00 70.00 78.78 72.20 78.82 0.000077 1.65 488 01 71.22 0.10 1580.00 70.00 R1 43 73 44 81 46 0.000061 1 79 3126 86 2323 44 0.10 North Main below diversion 112500 North Main below diversion 112500 2700.00 70.00 84.14 74.82 84.15 0.000013 0.97 13560.22 5466,76 0.05 0.000007 10530,30 North Ma below diversion 112500 5600 00 70.00 86.93 77.42 86.94 0.82 30575.53 0.04 78.70 72.28 78.74 1.72 467.36 69.71 0.11 111500 70.00 North Main below diversion 785.00 North Main below diversion 1580.00 70.00 73.56 81.40 0.000051 1.62 3698.72 2554.06 0.09 111500 84 13 74.96 84 14 0.000012 0.90 15055 07 5481 35 0.04 North Mali below diversion 2700.00 70.00 North Main 111500 5600.00 70.00 86.92 77.59 86.92 0.000000 0.77 33911.29 9345,24 0.03 78.50 0.000086 1.67 483.79 79.41 0.11 70.00 North Mair below diversion t08769 785.00 78.45 72.35 81.19 0.000113 2.34 990.57 563.39 0.13 1580.00 70.00 81.11 73.61 North Main below diversion 108769 2700.00 70.00 74.99 84.06 0.000058 2.01 4563.22 2156.19 0.10 108769 North Main below diversion 86.91 0.000017 1.25 26222.95 11413.89 0.06 108769 5600.00 70.0 86.90 77.47 North Main 0.11 108564 785.00 70.00 78.43 72.23 78.47 0.000087 1.69 476.27 74.18 North Mair North Main 0.14 below diversion 108564 1580.00 70.00 81,06 73,47 81.15 0.000124 2.47 685.47 85.08 2533.33 2852.27 0.14 84.01 0.000123 2.91 North Mai slow diversion 108584 2700.00 70.00 83.90 74.83 77.38 26235.57 11412.19 0.06 86.90 0.00001 1.26 86.90 North Main below diversion 108564 5600.00 70.00 North Main 108524 Bridge w diversion North Main elow diversion 108484 785.00 70.00 78.40 72.23 78.45 0.000089 1.69 474.17 74.06 0.11 680.47 84.84 0.14 B1.09 0.000126 North Main elow diversion 108484 1580.00 70.00 81.00 73.47 2.48 0.15 2200.69 2526.77 0.000133 3.01 North Main elow diversion 108484 2700.00 70.00 83.77 74.83 83.90

DAS Plan D 25% 3 (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft/ft) (ft) (fVs) (aq ft) (ft) North Mair Now divers 108484 5600.00 70.00 86.84 77.38 88.88 1.26 28155.98 11365,69 0.06 North Mair below diversion 08424 785.00 70.00 78.39 72.23 78.44 0.000089 1 70 473.47 74.03 0.11 North Main holow diversi 108424 1580:00 70.00 80.98 73.47 81.08 0.000127 2.48 679.27 84.78 North Main below div 108424 2700.00 70.00 83.76 74.84 83.89 0.000135 3.02 2166.93 2491 35 0.15 5600.00 North Main below diversion 108424 70.00 86.87 77.38 86.88 0.000018 1.27 26145.19 11373.29 0.06 North Main noissayib wol 08200 785.00 70.00 78 37 72.20 78.42 0.000090 1.71 469.23 72.27 0.11 North Main below diversion 108200 1580.00 70.00 80.95 73,43 81.05 0.000129 2.51 668.90 82.37 0.14 North Main 2700.00 70.00 83.74 74.81 83 86 0.000129 2.98 2536.98 2845.48 0.15 North Main below diversion 5600.00 70.00 88.86 77.36 86.87 0.000019 1.32 24095.59 11139.68 0.06 North Main below diversion 107200 785 00 70.00 78.29 72.07 78.33 0.000081 1.62 491.9B 74.79 0.11 North Main below diversion 107200 1580 00 70.00 80.63 73.25 80.92 0.000119 2.40 694.55 84.38 0.14 North Main low diversion 107200 2700.00 70.00 83.65 74.57 83.73 0.000100 2.60 3513.33 3474.5 0.13 107200 5600.00 70.00 66.84 77.07 86.85 0.000016 1.23 25539.05 10740.48 0.05 105420 North Make oelow diversio 880.00 70.00 78.12 72.28 78.17 0.000091 1.68 531.50 84.02 0.11 North Main w diversion 105420 1517.00 70.00 80.65 73.14 80.71 0.000094 2.11 757.22 94 88 0,12 2546.00 North Main below diversion 70.00 83.52 74.28 83.57 0.000064 2.07 4688.42 4222,28 0.10 North Main below diversion 105420 4853.00 70.00 76.22 86.83 0.000011 1.00 23991.58 10635.20 0.04 North Main below diversion 880.00 70.00 78.10 72.46 78.16 0.000125 2.07 452.83 72.68 0.13 North Mair noterarib woled 105350 1517.00 70.00 80.59 73.42 80 70 0.000137 2.63 646 R2 82.64 0.15 North Make محلومينال بتعطم 2546.00 70.00 83.49 74.65 83.57 0.000095 2.59 3895.74 3359 47 0.13 North Main 105350 4853.00 70.00 88.81 76.81 86.62 0.000013 1.12 24220.39 10704.35 0.05 North Main below diversion 105335 Bridge North Mair 105320 70.00 880.00 78.08 72.46 78 15 0.000126 2.07 451.96 72.63 0.13 below diversion North Mai 105320 1517.00 70.00 80.55 73.42 80.65 0.000139 2.64 643.05 82.46 0.15 2546.00 North Main alow diversion 105320 70.00 83.45 74.65 83.53 0.000098 2.63 3761.97 3245.83 0.13 North Main noisnevib wole 105320 4853.00 70.00 88.79 76.81 88.80 0.000013 1.13 23985.75 10674.56 0.05 North Main below diversion 105235 880.00 70.00 78.07 72.46 78.14 0.000126 2.08 451.26 72.60 0.13 below diversion 105235 1517.00 70.00 80.54 73 42 80 64 0.000140 2.64 642.17 82.42 0.15 North Mair elow diversion 105235 2546,00 70.00 83.43 74.85 83.52 0.000104 2.71 3471.17 3074.72 0.13 North Main noisrevib wole 105235 4853.00 70.00 86.79 76.81 86.79 0.000014 1.17 23132.68 10570.35 0.05 North Meir 104800 880.00 70.00 78.01 72.39 78.08 0.000128 2.09 450.00 73.25 0 14 North Main below diversion 104800 1517.00 70.00 80.47 73.37 80.58 0.000142 2.66 642.93 83.77 0.15 North Me below diversion 104800 2546.00 70.00 83.29 74.61 83.48 0.000160 3.34 1338,70 1727.80 0.17 North Mair below diversion 104800 4853.00 70.00 88.77 76.78 88.78 0.000022 1.46 0.06 North Mair elow diversion 104146 880.00 70.00 77.94 78.00 0.000115 1.97 475.79 77.32 0.13 North Mair below diversion 104146 1517.00 70.00 80.39 80.48 0.000127 2.51 679.81 89.09 0.14 North Main below diversion 104144 2546.00 70.00 83.20 83.35 0.000148 3.20 1151.48 1093.93 0.16 70.00 North Main below diversion 104146 4853.00 86.75 0.000032 1.74 17147.72 8253.45 0.08 North Main below divers 104118 880.00 70.00 77.93 77 99 0.000115 1 97 475.52 77.30 0.13 below diversion 104116 1517.00 70.00 80.39 80,48 0.000128 2.51 679.46 89.07 0.14 North Main below diversion 104118 2546.00 70.00 83.20 83.35 0.000148 3.20 1146.64 1087.27 0.16 North Mair below diversion 104116 4853.00 70.00 86.74 86.75 0.000032 1.75 17080.61 8235.94 0.08 North Main below diversion 103006 880 00 70.00 77.81 77.87 0.000122 2.01 468.03 76.75 0.13 North Main 103006 1517.00 70.00 80.25 80.35 0.000134 2.55 667.33 0.14 North Mair below diversion 103006 2546.00 70.00 83.03 83.19 0.000157 3.27 988 23 873.34 0.16 North Mair 103008 4853.00 70.00 86.71 86.73 0.000033 1.77 16885 66 8184.95 0.08 below diversion North Main 102913 880.00 70.00 77.80 77.87 0.000126 74.71 2.04 456 68 0.13 North Main below diversion 102913 1517.00 70.00 80.24 80.34 0.000138 84.78 2.59 650.80 0.15 North Main below diversion 102913 2546.00 70.00 83.02 83.18 0.000160 3.30 942.78 0.18 below dis North Mair 102913 4853.00 70.00 86.69 86.73 0.000053 2.25 12270.14 6717.87 0.10 below diversion North Main 102850 880.00 70.00 77.80 77.86 0.000123 2.01 464.93 76.69 0.13 North Main below dive 102650 1517.00 70.00 80.23 73.16 80.33 0.000135 2.56 665.57 88.35 0.14 North Main below diversion 102850 2546.00 70.00 B3.01 74.37 83,17 0.000158 970.70 852.23 3,27 0.16 North Mair below diversion 102850 4853.00 70.00 86.69 76.47 86.71 0.000033 16712.74 8139.35 0.08 North Main below diversion 102835 Bridge helow diversion North Main 102820 880.00 70.00 77.79 77.85 0.000123 76.64 2.02 464.08 0.13 North Main below diversion 102820 1517.00 70.00 80.21 80.31 2.58 664.35 0.000136 88.29 0.14 North Main below diversion 102820 2546.00 70.00 62.98 83.14 3.28 956,87 145.04 0.15 North Main dow diversion 102820 4853.00 70.00 88 67 0.000034 1.80 16506.21 8084.61 0.08 North Mair below diversion 102600 680,00 70.00 77.74 77.82 0.000147 2 18 424 10 68.98 0 14 North Main below diversion 102600 1517.00 70.00 80.16 80.2B 0.000161 2.78 601.09 77.48 0.16 North Main below diversion 102600 2546.00 70.00 82.90 83.09 0.000189 3.56 847.50 114.41 0.18 North Mair w diversion 102600 4853.00 70.00 86.61 86.66 10468.77 0.000076 2.69 6078.66 0.12

North Main

North Main

below diversion

below div

101500

101500

880.00

1517.00

70.00

70.00

77.58

79.99

77.65

80.10

0.000149

0.000161

2.17

2.75

427.51

611.79

71.81

81.54

0.14

0.16

| River                    | Plan P 25%<br>Reach                   | River Sta        | Q Total            | Min Ch El | W.S. Elev      | Crit W.S. | E.G. Elev      | E.G. Slope | Vel Chnl | Flow Area         | Top Width      | Froude # Chi                          |
|--------------------------|---------------------------------------|------------------|--------------------|-----------|----------------|-----------|----------------|------------|----------|-------------------|----------------|---------------------------------------|
|                          |                                       |                  | (cfs)              | (ft)      | (ft)           | (ft)      | (ft)           | (fVH)      | (ft/e)   | (sq ft)           | (ft)           | <b>使整理的主要</b>                         |
| North Main               | below diversion                       | 101500           | 2546.00            | 70.00     | 82.70          |           | 82.68          | 0.000187   | 3.50     | 864.47            | 120.06         | 0.18                                  |
| North Main               | below diversion                       | 101500           | 4853.00            | 70.00     | 86.41          |           | 86.55          | 0.000136   | 3.57     | 6844.35           | 5489.90        | 0.16                                  |
|                          |                                       |                  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Mein               | below diversion                       | 100000           | 880.00             | 70.00     | 77.33          |           | 77.40          | 0.000192   | 2.21     | 401.91            | 72.04          | 0.16                                  |
| North Main               | below diversion                       | 100000           | 1517.00            | 70.00     | 79.73          |           | 79.84          | 0.000182   | 2.69     | 585.85            | 80.75          | 0.16                                  |
| North Main               | below diversion                       | 100000           | 2548.00            | 70.00     | 82.42          |           | 82.59          | 0.000198   | 3.38     | 824.62            | 113.37         | 0.18                                  |
| North Main               | below diversion                       | 100000           | 4853.00            | 70.00     | 85.94          |           | 86.26          | 0.000261   | 4.67     | 1491.88           | 349.29         | 0.22                                  |
|                          | 11.10                                 |                  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 99900            | 880.00             | 70.00     | 77.30          |           | 77.37          | 0.000180   | 2.16     | 410.98            | 72.44          | 0.15                                  |
| North Main               | below diversion                       | 99900            | 1517.00            | 70.00     | 79.71          |           | 79.82          | 0.000174   | 2.64     | 596.35            | 81.52          | 0.16                                  |
| North Main               | below diversion                       | 99900            | 2546.00            | 70.00     | 82.40          |           | 82.57          | 0.000190   | 3.33     | 837.36            | 114.50         | 0,18                                  |
| North Main               | below diversion                       | 99900            | 4853.00            | 70.00     | 85.91          |           | 86,22          | 0.000255   | 4.63     | 1437.83           | 283,28         | 0.21                                  |
|                          |                                       |                  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 99708            | 880,00             | 70.00     | 77.26          |           | 77.34          | 0.000191   | 2.16     | 410.41            | 76.27          | 0.16                                  |
| North Main               | below diversion                       | 99708            | 1517.00            | 70.00     | 79.67          |           | 79.78          | 0.000175   | 2.61     | 606.79            | 86.47          | 0.16                                  |
| North Main               | below diversion                       | 99708            | 2549.00            | 70.00     | 82.37          |           | 82.53          | 0.000186   | 3.25     | 861.27            | 114.67         | 0.17                                  |
| North Main               | below diversion                       | 99708            | 4853.00            | 70.00     | 85.87          |           | 86.17          | 0.000249   | 4.54     | 1353.09           | 180.15         | 0.21                                  |
|                          |                                       |                  |                    | 70.00     | 77.00          |           | 77.04          | 0.000004   | 2.36     | 074.70            | 67.04          | 0.17                                  |
| North Main               | below diversion                       | 99592            | 890.00             | 70.00     | 77.22          |           | 77.31<br>79.75 | 0.000224   | 2.88     | 374.76<br>545.79  | 75.40          |                                       |
| North Main               | below diversion                       | 99592            | 15.7.00            | 70.00     | 79.62          |           | 82.50          | 0.000212   | 3,62     | 766.40            | 107.59         |                                       |
| North Main               | below diversion                       | 99592            | 2546.00            | 70.00     | 82.30          |           |                | 0.000230   | 5.05     |                   | 144.43         |                                       |
| North Main               | below diversion                       | 99592            | 4853.00            | 70.00     | 85.76          |           | 86,13          | 0.000312   | 5.05     | 1213.36           | 144,43         | 0.23                                  |
| NAMES OF STREET          |                                       | oceto            | 990.00             | 70.00     | 77.22          | 72.30     | 77.29          | 0.000191   | 2.13     | 414.07            | 72.36          | 0.16                                  |
| North Main               | below diversion                       | 99550            | 1517.00            | 70.00     | 79.63          | 72.30     | 79.73          | 0.000191   | 2.13     | 599.96            | 72.36<br>82.26 | 0.16                                  |
| North Main               | below diversion                       | 99550            | 1517.00<br>2546.00 | 70.00     | 82.33          | 74.48     | 82.48          | 0.000197   | 3.04     | 845.00            | 118,10         |                                       |
| North Main               | below diversion<br>below diversion    | 99550<br>99550   | 4853.00            | 70.00     | 85.86          | 76.63     | 86.07          | 0.000218   | 3.82     | 2289.72           | 2027.22        | 0.20                                  |
| North Main               | Polow diversion                       | 3200 de 42.00 de | 4033,00            | 70.00     | 65.86          | 70.03     | 90.07          | 0.000240   | 3.32     | 2600.72           | 2021.22        | 0,20                                  |
| North Main               | below diversion                       | 99535            | Bridge             |           |                |           |                |            |          |                   |                |                                       |
| region (vicial)          | J-O-VW UITOIBIUI                      |                  | Single             |           |                |           |                |            |          |                   |                | 1                                     |
| North Main               | below diversion                       | 99620            | 880.00             | 70.00     | 77.21          | 72.30     | 77.28          | 0.000192   | 2.13     | 412.98            | 72.30          | 0.16                                  |
| North Main               | below diversion                       | 99620            | 1517.00            | 70.00     | 79.61          | 73.24     | 79.71          | 0.000199   | 2.54     | 598.41            | 82.19          |                                       |
| North Main               | below diversion                       | 99520            | 2546.00            | 70.00     | 82.30          | 74.48     | 82.44          | 0.000221   | 3.05     | 840.79            | 117.46         |                                       |
| North Main               | below diversion                       | 99520            | 4853.00            | 70.00     | 85.80          | 76.60     | 86.01          | 0.000248   | 3.87     | 2152.42           |                |                                       |
| N Section 1985           |                                       |                  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 99507            | 880.00             | 70.00     | 77.21          |           | 77.28          | 0.000192   | 2.13     | 412.79            | 72.29          | 0.16                                  |
| North Main               | below diversion                       | 99507            | 1517.00            | 70.00     | 79.61          |           | 79.71          | 0.000199   | 2.54     | 598.19            | 82.17          | 0.17                                  |
| North Main               | below diversion                       | 99507            | 2546.00            | 70.00     | 82.30          |           | 82.44          | 0.000221   | 3.05     | 840.43            | 117.41         | 0.18                                  |
| North Main               | below diversion                       | 99507            | 4853.00            | 70.00     | 85.78          |           | 86.00          | 0.000250   | 3.88     | 2126.48           | 1998.75        | 0.20                                  |
| 50 / A. Barrett          | 3000 24 7 TOM                         | # # (A - 2 h)    |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 98900            | 896.00             | 70.00     | 77.08          |           | 77.16          | 0.000205   | 2.22     | 406.04            | 74.33          | 0.16                                  |
| North Main               | below diversion                       | 98900            | 1573.00            | 70.00     | 79.47          |           | 79.59          | 0.000195   | 2.73     | 593.28            | 82.19          | 0.17                                  |
| North Main               | below diversion                       | 98900            | 2645.00            | 70.00     | 82.13          |           | 82.31          | 0.000209   | 3.42     | 846.92            | 104.58         | 0.18                                  |
| North Main               | below diversion                       | 98900            | 4959.00            | 70.00     | 85.52          |           | 85.84          | 0.000276   | 4.71     | 1474.82           | 431.92         | 0.22                                  |
| \$0-\$4K.W.              |                                       | 7848-8           |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 97900            | 896.00             | 70.00     | 76.87          |           | 76.95          | 0.000214   | 2.23     | 402.89            | 75.43          | 0.17                                  |
| North Main               | below diversion                       | 97900            | 1573.00            | 70.00     | 79.28          | i         | 79.39          | 0.000197   | 2.72     | 595.89            | 84.80          | 0.17                                  |
| North Main               | below diversion                       | 97900            | 2645.00            | 70.00     | 81.92          |           | 82.10          |            |          | 854.86            |                |                                       |
| North Main               | below diversion                       | 97900            | 4959.00            | 70.00     | 85.25          |           | 85.56          | 0.000270   | 4.62     | 1787.99           | 1268.65        | 0.22                                  |
|                          |                                       |                  |                    |           |                |           |                |            |          |                   | ļ              | L                                     |
| North Main               | below diversion                       | 95000            | 896.00             |           | 76.44          |           | 76.49          |            |          | 476.37            | 73.79          |                                       |
| North Main               | below diversion                       | 95000            | 1573.00            |           | 78.81          |           | 78.91          | 0.000134   |          | 663.33            |                |                                       |
| North Main               | below diversion                       | 95000            | 2645.00            |           | 81.38          |           | 81.54          |            |          | 918.86            |                |                                       |
| North Main               | below diversion                       | 95000            | 4959.00            | 88.00     | 84.49          |           | 84.80          | 0.000244   | 4.64     | 1789.50           | 978.94         | 0.21                                  |
| 3 T. J. B.               |                                       |                  |                    | <u> </u>  |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 94730            | 896.00             |           | 76.41          |           | 76.47          |            |          | 458.99            |                |                                       |
| North Main               | balow diversion                       | 94730            | 1573.00            |           | 78.77          |           | 78.87          |            |          |                   |                |                                       |
| North Main               | below diversion                       | 94730            | 2645.00            |           | 81.32<br>84.31 |           | 81.49<br>84.71 |            |          | 857.17<br>1497.71 |                |                                       |
| North Main               | below diversion                       | 94730            | 4959.00            | 68.00     | 84.31          |           | 54./1          | 0.000307   | 5.10     | 1497.71           | 1303,1         | 0.23                                  |
| N 80.                    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | DAGEE            | 896.00             | 68.00     | 76.40          | 70.34     | 76.45          | 0.000109   | 1.89     | 483.42            | 73.74          | 0.12                                  |
| North Main               | below diversion                       | 94655            | 1573.00            |           | 78.76          |           |                |            |          |                   |                |                                       |
| North Main               | below diversion<br>below diversion    | 94655            | 2645.00            |           | 81.31          |           |                |            |          |                   | -              |                                       |
| North Main<br>North Main | below diversion                       | 94856            | 4959.00            |           | 84.35          |           |                |            |          |                   |                | · · · · · · · · · · · · · · · · · · · |
| INJULINARI)              | DEIOH GIVENED)                        |                  | 4000.00            | 00.00     | 04.00          | 7.7.77    | 500            | 3.000201   |          |                   | 1              |                                       |
| North Main               | below diversion                       | 94635            | Bridge             |           |                |           |                |            |          |                   |                |                                       |
| · ··vier mail)           | PROPULITORNII                         | 7776             | Singe              |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 94620            | 896.00             | 68.00     | 76.37          | 1         | 76.43          | 0.000110   | 1.90     | 481.53            | 73.64          | 0.12                                  |
| North Main               | below diversion                       | 94620            | 1573.00            |           | 78.73          |           | 78.82          |            |          |                   |                |                                       |
| North Main               | below diversion                       | 94820            | 2645.00            |           | 81.28          |           | 81.45          |            |          | 920.42            |                |                                       |
| North Main               | below diversion                       | 94820            | 4959.00            |           | 84.34          |           | B4.67          |            |          |                   |                |                                       |
|                          | 4.75.6 3.36.11                        |                  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 94530            | 896.00             | 68.00     | 76.36          |           | 76.42          | 0.000110   | 1.90     | 480.89            | 73.60          | 0.12                                  |
| North Main               | below diversion                       | 94530            | 1573,00            |           | 78.72          |           | 78.81          |            |          | 667.23            | 87.10          | 0.14                                  |
| North Main               | below diversion                       | 94530            | 2645.00            |           | 81.27          |           | 81.43          | 0.000165   | 3.28     | 918.89            |                |                                       |
| North Main               | below diversion                       | 94530            | 4959.00            |           | 84.33          |           | 84.66          | 0.000258   | 4.75     | 1565.13           | 802.2          | 0.2                                   |
| 1 1 1 1 1 1 1 1 1        | THE LAWREST                           |                  |                    |           |                |           |                |            |          |                   |                |                                       |
| North Main               | below diversion                       | 92150            | 896.00             | 68.00     | 76.03          | 70.60     | 76.11          |            |          |                   |                |                                       |
| North Main               | below diversion                       | 92150            | 1573.00            |           | 78.34          | 71.69     | 78.46          | 0.000192   | 2.73     | 587.7             | 85.4           | 0.1                                   |
| North Main               | below diversion                       | 92150            | 2645.00            |           | 80.82          |           |                | 0.00022    | 3.50     | 830.3             | 113.8          |                                       |
| North Main               | below diversion                       | 92150            | 4959.00            | 68.00     | 83.61          | 75.34     | 84.00          | 0.00034    | 5.06     | 1199.9            | 606.4          | 5 0.2                                 |
| Tara Arekini.            | IN GERTLE HONE                        |                  |                    |           |                |           |                |            |          |                   |                |                                       |
|                          | below diversion                       | 92135            | Bridge             |           |                | 1         |                |            |          |                   |                |                                       |

| River                                       | Plan: P 259<br>Reach                    | RiverSta      | Q Total            | Min Ch Ei      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chni     | Flow Area         | Top Width               | Froude # Chi |
|---|---|---------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-------------------|-------------------------|--------------|
| - 447V, P                                   |   | 4 2 4 4 5 1   | (cfa)              | (ft)           | (ft)           | (ft)           | (ft)           | (ft/ft)    | (ft/e)       | (sq ft)           | (ft)                    | Proude # Chi |
| Name of the second                          |   |               | <b></b>            |                |                |                |                |            | 4            | 77.9              | 179                     | <u> </u>     |
| North Main                                  | below diversion                         | 92120         | 898.00             | 68.00          | 78.02          | 70.60          | 76.10          | 0.000185   | 2.16         | 414.70            | 68.81                   | 0.15         |
| North Main<br>North Main                    | below diversion                         | 92120         | 1573.00            | 68.00          | 78.32          | 71.69          | 78.44          | 0.000194   | 2.74         | 586.04            | 85,21                   | 0.17         |
| North Main                                  | below diversion                         | 92120         | 2645.00<br>4959.00 | 68.00          | 80.80          | 73.08          | 80.99          | 0.000224   | 3.51         | 827.90            | 113.49                  | 0.19         |
| e o Mario lib                               | : Tabbacatini ya                        | 72.12         | 4938.00            | 68.00          | 83.52          | 75.34          | 83.90          | 0.000352   | 5.10         | 1186.03           | 543.28                  | 0.24         |
| North Main                                  | below diversion                         | 91139         | 898.00             | 68.00          | 75.83          | 70.60          | 75.04          | 0.000000   |              |                   |                         |              |
| North Make                                  | below diversion                         | 91139         | 1573.00            | 68.00          | 78.12          | 71.69          | 75.91<br>78.24 | 0.000203   | 2.23         | 401.44            | 67,98                   | 0.16         |
| North Main                                  | below diversion                         | 91139         | 2845.00            | 68.00          | 80.56          | 73.06          | 80.76          | 0.000210   | 3.59         | 568.95<br>801,34  | 83.27                   | 0.17         |
| North Main                                  | below diversion                         | 91139         | 4959.00            | 68.00          | 83.12          | 75.34          | 83.54          | 0.000392   | 5.28         | 1129.08           | 109.86<br>233.19        | 0.19         |
| dellarity and figure                        | - Tark 1973 a.a. 4.7                    | 6 Resultation |                    |                |                |                |                |            |              | 1120.00           | 200.15                  | 0.20         |
| North Main                                  | below diversion                         | 91050         | 896.00             | 68.00          | 75.81          | 70.59          | 75.89          | 0.000205   | 2.24         | 399.87            | 67.70                   | 0.16         |
| North Main                                  | below diversion                         | 91050         | 1573.00            | 68.00          | 78.10          | 71.68          | 78.22          | 0.000213   | 2.82         | 568.39            | 82.32                   | 0.17         |
| North Main                                  | below diversion                         | 91050         | 2645.00            | 68.00          | 80.53          | 73.07          | 80.73          | 0.000246   | 3.61         | 792.06            | 107.27                  | 0.20         |
| A S   | Dodder Generalist                       | 91000         | 4959.00            | 68.00          | 83.23          | 75.35          | 83.45          | 0.000258   | 4.29         | 3588.64           | 2451.08                 | 0.21         |
| North Main                                  | below diversion                         | 88641         | 896.00             | 68.00          | 75.28          | 70.47          | 75.67          |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 88841         | 1573.00            | 68.00          | 77.56          | 70.47<br>71.53 | 75.37<br>77.69 | 0.000236   | 2.33         | 384.40            | 68.09                   | 0.17         |
| North Main                                  | below diversion                         | 88641         | 2645.00            | 68.00          | 79.91          | 72.88          | 80.12          | 0.000240   | 2.88         | 550.39            | 77.81                   | 0.18         |
| North Main                                  | below diversion                         | 88641         | 4959.00            | 58.00          | 82.44          | 75.08          | 82.75          | 0.000276   | 4.79         | 744.85<br>2451.60 | 87.90<br>10196.91       | 0.21         |
| . R. L. (8 %)                               | abitala Walio ana ang                   | y Marina da   |                    |                |                |                |                | 0.0000     | 7.70         | 2431.60           | 10(96.91                | 0.24         |
| North Main                                  | below diversion                         | 88488         | 896.00             | 68.00          | 75.24          | 70.49          | 75.33          | 0.000248   | 2.38         | 376.53            | 67.16                   | 0.18         |
| North Main                                  | below diversion                         | 88488         | 1573.00            | 68.00          | 77.51          | 71.55          | 77.65          | 0.000252   | 2.94         | 540.35            | 76.63                   | 0.19         |
| North Main                                  | below diversion                         | 88488         | 2645.00            | 68.00          | 79.85          | 72.90          | 80.07          | 0.000286   | 3.74         | 758.72            | 108.48                  | 0.21         |
| North Main                                  | below diversion                         | 88488         | 4959.00            | 68.00          | 82.49          | 75.13          | 82.66          | 0.000230   | 3.93         | 4443.65           | 12793.28                | 0.20         |
| North Main                                  | below diversion                         | 88300         | 896.00             |                |                |                |                |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 88300         | 1573.00            | 68.00          | 75.19          | 70.47          | 75.28          | 0.000245   | 2.37         | 377.52            | 67.19                   | 0.18         |
| North Main                                  | below diversion                         | 88300         | 2645.00            | 68.00          | 77.47          | 71.52<br>72.85 | 77.60<br>80.01 | 0.000251   | 2.93         | 540.89            | 78.44                   | 0.19         |
| North Main                                  | below diversion                         | 88300         | 4959.00            | 68.00          | 82.25          | 75.07          | 82.60          | 0.000288   | 3.74<br>5.01 | 753.31            | 106.46                  | 0.21         |
| 1.65 (2.85%)                                | THE WINDERS                             | riging to a   |                    |                |                |                | 32.00          | 0.00000    | 5.01         | 1825.71           | 797.37                  | 0.25         |
| North Main                                  | below diversion                         | 87300         | 896.00             | 68.00          | 74.92          | 70.46          | 75,02          | 0.000280   | 2.49         | 359.23            | 65.59                   | 0.19         |
| North Main                                  | below diversion                         | 87300         | 1573.00            | 68.00          | 77.19          | 71.51          | 77.33          | 0.000283   | 3.05         | 518.01            | 74.43                   | 0.20         |
| North Main                                  | below diversion                         | 87300         | 2645.00            | 68.00          | 79.50          | 72.85          | 79.72          | 0.000304   | 3.79         | 851.65            | 192.35                  | 0.21         |
| North Main                                  | below diversion                         | 67300         | 4959.00            | 68.00          | 82.02          | 75.06          | 82.23          | 0.000281   | 4.25         | 3034.23           | 1643.79                 | 0.21         |
| North Main                                  | below diversion                         | 85942         | 202.00             |                |                |                |                |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 85942         | 898.00             | 68.00          | 74.40          | 70.64          | 74.54          | 0.000451   | 2.96         | 302.48            | 61.23                   | 0.23         |
| North Main                                  | below diversion                         | 85942         | 1573.00<br>2645.00 | 68.00          | 76.67          | 71.75          | 76.88          | 0.000423   | 3.49         | 452.17            | 70,80                   | 0.24         |
| North Main                                  | below diversion                         | 86942         | 4959.00            | 58.00<br>68.00 | 78.92<br>81.30 | 73.14<br>75.44 | 79.21          | 0.000449   | 4.38         | 634.23            | 98.19                   | 0.26         |
| 18 A 18 18 18 18 18 18 18 18 18 18 18 18 18 | (CANADA - NA)                           | a ta ti u i i | 1555.55            |                | 81.30          | 75,44          | 81.70          | 0.000522   | 5.50         | 2163.91           | 1305.21                 | 0.29         |
| North Main                                  | below diversion                         | 85850         | 896.00             | 68.00          | 74.37          | 70.87          | 74.51          | 0.000465   | 2.99         | 300.05            |                         |              |
| North Main                                  | below diversion                         | 65850         | 1573.00            | 68.00          | 78.64          | 71.80          | 76.83          | 0.000432   | 3.49         | 451.53            | 61.46<br>71. <b>7</b> 0 | 0.24         |
| North Main                                  | below diversion                         | 85850         | 2645.00            | 68.00          | 78.88          | 73.18          | 79.17          | 0.000454   | 4.35         | 636.32            | 105.84                  | 0.26         |
| North Main                                  | below diversion                         | 85850         | 4959.00            | 68.00          | 61.17          | 75.48          | 81.65          | 0.000598   | 5.83         | 1705.98           | 1305.60                 | 0.31         |
|   |   | 1 V           |                    |                |                |                |                |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 85836         | Bridge             |                |                |                |                |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 85820         | 909.00             | 40.00          |                |                |                |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 85820         | 896.00<br>1573.00  | 68.00          | 74.31<br>78.58 | 70.67          | 74.48          | 0.000480   | 3.02         | 296.66            | 61.21                   | 0.24         |
| North Main                                  | below diversion                         | 85820         | 2645.00            | 68.00          | 78.81          | 71.80          | 76.78<br>79.11 | 0.000446   | 3.52         | 447.10            | 71.42                   | 0.24         |
| North Main                                  | below diversion                         | 85820         | 4959.00            | 68.00          | 81.02          | 75.46          | 81.51          | 0.000487   | 4.39<br>5.94 | 638.92            | 129.11                  | 0.26         |
| . 9. 5.5                                    | 100000000000000000000000000000000000000 | A BANK IN A   |                    |                |                |                |                | 0.00000    | 3.54         | 1684.34           | 1374.15                 | 0.32         |
| North Main                                  | below diversion                         | 85763         | 896.00             | 68.00          | 74.29          | 70.67          | 74.43          | 0.000487   | 3.04         | 295,07            | 61.10                   | 0.24         |
| North Main                                  | below diversion                         | 85763         | 1573.00            | 68.00          | 76.56          | 71.80          | 78.75          | 0.000452   | 3.54         | 445.40            | 71.31                   | 0.25         |
| North Main                                  | below diversion                         | 85763         | 2645.00            | 68.00          | 78.78          | 73.19          | 79.08          | 0.000472   | 4.40         | 628.09            | 103.38                  | 0,26         |
| North Main                                  | below diversion                         | 85763         | 4959.00            | 68.00          | 80.92          | 75.48          | 81.47          | 0.000694   | 6.18         | 1447.79           | 1299,44                 | 0.33         |
| North Main                                  | below diversion                         | 83100         | 909 00             | 22.00          |                |                |                |            |              |                   |                         |              |
| North Main                                  | below diversion                         | 83100         | 896.00<br>1573.00  | 66.00          | 73.42          | 68.67          | 73.51          | 0.000267   | 2.48         | 363.94            | 65.33                   | 0.18         |
| North Main                                  | below diversion                         | B3100         | 2645.00            | 66.00          | 75.72<br>77.82 | 69.80<br>71.19 | 75.87<br>78.06 | 0.000264   | 3.02         | 526.46            | 75.49                   | 0.19         |
| North Main                                  | below diversion                         | 83100         | 4959.00            | 66.00          | 80.71          | 73.49          | 80.76          | 0.000329   | 3.97<br>2.65 | 694.03            | 84.61                   | 0.22         |
| wy it asifika                               | yengan jalah sa                         | e transport   |                    |                | - 55.7!        | 7.0.48         | 50.76          | 3.3001041  | 2.05         | 9702.96           | 16520.38                | 0.13         |
| North Main                                  | below diversion                         | B2100         | 896.00             | 66.00          | 73.04          | 68.97          | 73.19          | 0.000369   | 3.15         | 302.52            | 59.04                   | 0.22         |
| North Main                                  | below diversion                         | 82100         | 1573.00            | 66,00          | 75.30          | 70.15          | 75.54          | 0.000390   | 3.97         | 447.64            | 69.45                   | 0.24         |
| North Main                                  | below diversion                         | 82100         | 2645.00            | 66.00          | 77.20          | 71.58          | 77.83          | 0.000542   | 5.36         | 587.97            | 455.62                  | 0,29         |
| North Main                                  | below diversion                         | 82100         | 4959.00            | 66.00          | 80.61          | 74.08          | 80.85          | 0.000098   | 2.76         | 9138.47           | 16662.51                | 0.13         |
| North Main                                  | below diversion                         | 82000         | 905.00             | 96.00          | 70.00          |                |                |            |              |                   |                         |              |
| Vorth Main                                  | below diversion                         | 82000         | 896.00<br>1573.00  | 66.00          | 73.00          | 68.97          | 73.16          | 0.000378   | 3.17         | 300.15            | 58.86                   | 0.22         |
| North Main                                  | below diversion                         | 82000         | 2845,00            | 66.00          | 75.28<br>77.14 | 70.15<br>71.58 | 75.50          | 0.000397   | 4.00         | 444.66            | 69,25                   | 0.24         |
| Vorth Main                                  | below diversion                         | 82000         | 4959.00            | 66.00          | 79.64          | 71.58          | 77.57<br>80.54 | 0.000554   | 5.39         | 583.05            | 440.54                  | 0.30         |
|   | J. 10 Mg. 1 1                           |               | 1030,00            | 33.00          | 13.04          | 14.00          | 60.54          | 0.0008961  | 7.93         | 791.72            | 2432.57                 | 0.39         |
| Vorth Main                                  | below diversion                         | 81100         | 898.00             | 68.00          | 72.61          | 68.75          | 72.79          | 0.000420   | 3.44         | 298.59            | 69.92                   | 0.24         |
| North Main                                  | below diversion                         | 81100         | 1573.00            | 66.00          | 74.84          | 69.91          | 75.11          | 0.000420   | 4.37         | 439.09            | 410.85                  | 0.24         |
| North Main                                  | below diversion                         | 81100         | 2645.00            | 66.00          | 76.50          | 71.43          | 77.01          | 0.000673   | 5,99         | 602.59            | 749.77                  | 0.28         |
| North Main                                  | below diversion                         | 81100         | 4959.00            | 66.00          | 78.73          | 74.03          | 79.67          | 0.001038   | 8.48         | 1108.01           | 1815.63                 | 0.42         |
|   | <u> </u>                                |               |                    |                |                |                |                |            |              |                   |                         |              |
| Vorth Main                                  | below diversion                         | 80100         | 896.00             | 66.00          | 72.23          | 68.60          | 72.37          | 0.000405   | 3.06         | 325.91            | 79.48                   | 0.23         |
| North Main                                  | below diversion                         | 80100         | 1573.00            | 66.00          | 74.48          | 69.69          | 74.68          | 0.000375   | 3.69         | 529.14            | 104.58                  | 0.23         |
| North Main                                  | below diversion                         | 80100         | 2645,00            | 66.00          | 76.00          | 71.08          | 76,38          | 0.000555   | 5.06         | 708.95            | 132.61                  | 0.29         |
| vorth Main                                  | below diversion                         | 80100         | 4959.00            | 66.00          | 78.37          | 73.33          | 78.76          | 0.000558   | 5.90         | 2385.94           | 960.98                  | 0.30         |
|   | 1                                       | 17.           |                    |                |                |                | - 1            |            |              | 7                 |                         |              |

HEC\_DAS\_Plan: P\_25% 3 (Continued)
River Reach River Sta Q Total Flow Area Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Froude # Chil (cfa) (ft) (IVII) (ft/s) (8g ft) (ft) North Main below diversion 79100 896.00 66,00 71.62 68.76 71.83 0.000722 3.74 245.18 58.72 0.30 North Main below diversion 79100 1573.00 66.00 73.91 69.91 74.20 0.000597 4.39 387.27 274.11 0.29 462.11 74.98 0.001041 6.37 353.20 0.39 North Main noistevib wole 2645.00 66.00 71.24 75.59 79100 elow diversion 2141.06 North Main 4959.00 66.00 77.43 73.63 7B.D4 0.000929 7.16 3496.10 0.39 79100 North Main elow diversion 77548 896.00 66.00 70.31 68.19 70.52 0.001009 3.70 242 64 87.38 N 34 lorth Main below diversion 77548 1573.00 66.00 73.18 69.13 73.38 0.000447 3.61 457.04 81.94 0.25 North Main below diversion 7754R 2645 00 88 00 73.32 70.30 73.86 0.001174 5.94 468.87 82.67 0.40 below diversion North Main 77548 4959.00 66.00 74.12 72.25 75.62 0.002805 9.90 537.04 2212.48 0.64 North Main below diversion 896.00 62.00 70.36 64.76 70.44 0.000160 2.22 414.97 68.44 0.15 77538 North Main below diversion 77538 1573.00 62.00 73.21 65.91 73.33 0.000152 2.72 628.29 81.20 0.15 below diversion 2645.00 62.00 73.42 67.34 73.73 0.000401 4.48 645.17 82.12 0.25 4959.00 62.00 74.39 75.26 0.001023 7.60 726.65 2667.22 0.40 North Main below diversion 77538 69.52 0.000161 2.22 414.07 68.38 0.15 North Main below diversion 77419 896.00 62.00 70.35 64.76 70.43 81.15 0.15 0.000153 627.40 North Main below diversion 77419 1573.00 62.00 73.20 65.91 73.32 2.73 640.94 0.25 North Main 77419 2645.00 62.00 73.37 67.33 73.68 0.000408 4.50 81.89 below diversion 4959.00 62.00 74.21 75.13 0.001093 7.78 756.72 2666.80 0.42 North Main 77419 69.52 below diversion North Main below diversion 77357 896.00 62.00 70.35 64 50 70.41 0.000140 1.96 457.49 72.53 0.14 North Main pelow diversion 77357 1573 00 62 00 73 21 65.55 73 30 0.000125 2.37 682.50 921.49 0.14 North Main below diversion 77357 2645.00 62.00 73.40 66.91 73.64 0.000330 3.91 699.21 1707.07 0.22 0.000332 4241.96 5206.14 74.72 74.91 4.27 0.23 North Main below diversion 77357 4959.00 62.00 69,13 below diversion 77343 Bridge North Main North Main below diversio 896 00 62.00 70.33 84.50 70.39 0.000141 1.96 456.29 72.45 0.14 77829 North Main elow diversion 77329 1573.00 62.00 73.19 65.55 73.28 0.000126 2.38 681.16 685.52 0.14 1258.24 0.000334 North Main below diversion 77329 2645.00 82.00 73.38 66.91 73.61 3.92 696.82 0.22 0.000432 74.51 4.81 3637.08 4393.0 0.26 4959.00 69.12 74.77 North Main below diversion 77329 62.00 62.68 70.37 0.000086 1,68 534.17 72.44 0.11 North Main elow diversion 77179 896.00 60.10 70.33 North Main 1573.00 60.10 73.19 63.79 73.26 0.000090 2.13 759.07 2320.94 0.12 elow diversion 77179 North Main elow diversion 77179 2645.00 60.10 73.38 65.28 73,55 0.000213 3.32 1634.95 2322.47 0.18 below diversion 4715.04 North Main 77179 4959.00 60.10 74.52 67.74 74,68 0.000260 3.91 4701.50 0.20 Culvert North Main below diversion 77143 68.76 0.13 60.10 69.46 62.67 69.52 0.000124 1.90 472.75 North Main below diversion 77107 896.00 63.79 71.61 0.000164 2.55 622.51 77.56 0.15 North Main 77107 1573.00 60.10 71.51 noisravib woled 77107 2645.00 60.10 72.7B 65.28 73.00 0.000292 3.72 725.09 B3.11 0.21 North Main noisrevib wole alow diversion 4959.00 60.10 74.48 67.74 74.64 0.000270 3.98 4605.91 4660.06 0.21 North Main 77107 74.85 0.11 514.74 62.59 69.46 0.000093 1.75 North Main below diversion 76585 896.00 60.00 69.41 1573.00 71.44 63.68 71.53 0.000126 2.41 675.51 83.58 0.14 76585 60.00 North Main below diversion 0.000236 3.57 88.84 0.19 2645.00 72.67 65.0 72.86 781,53 North Main low diversion 60.00 74.47 below diversion 0.000318 4.54 3726.81 7143.44 0.23 76585 60,00 74.22 67.33 North Main 1.81 497.67 71,48 0.12 North Main below diversion 78000 898 00 60.00 69.35 62.59 69.40 0.000099 106,69 675.46 0.14 North Main below diversion 76000 1573.00 60,00 71.35 63.68 71.45 0.000136 2.49 0.000257 3.69 816.88 1587.66 0.20 65.07 72.71 60,00 72.51 North Main below diversion 76000 2645.00 74.19 0.000600 6.04 1240.89 4028.96 0.31 73.65 67.39 North Main elow diversion 76000 4959.00 60.00 896.00 60.00 89 34 62.70 69.40 0.000099 1 92 488 80 72 69 0.12 North Main below diversion 6929 North Main 75929 1573 00 60.00 71.34 63 82 71.45 0.000141 2.65 676.15 115.50 0.15 below diversion North Main 75929 2645.00 60.00 72.46 65.23 72.69 0.000273 3.96 901.39 2248.15 0.21 below diversion 4.11 5210.74 4566.41 0.000251 0.20 North Main below diversion 75929 4959.00 60,00 73.89 67.44 74.05 1.91 60.00 69.33 62.64 69.39 0.000098 488.16 70 BB 0.12 75866 896.00 North Main below diversion 71.43 2.66 71.33 63.76 0.000141 655 51 99.89 0.15 below diversion 1573.00 60.00 North Main 75866 2645.00 60.00 72,45 65.16 72 68 0.000264 3.91 1168.74 2819.02 0.21 North Main below diversion 4959.00 60.00 73.90 67.40 74.02 0.000208 3.75 5887.18 4593.12 0.19 North Main noieravib woler North Main below diversion 75852 Bridge 69.31 62.64 69.37 0.000099 1.92 486 58 70.77 0.12 896.00 60.00 North Main 75838 below diversion North Main below diversion 71.29 63.76 71.39 0,000143 2.67 651.69 100.33 0.15 75838 1573.0 60.00 2645.00 60.00 72.34 65 16 72 58 0.000281 4 00 1063.01 2572.01 0.21 North Main North Main below diversion 75838 4959.00 60.00 73.77 67.37 73.92 0.000236 3.97 5507.22 4529.66 0.20 0.12 62.64 69.36 0.000099 486.05 70.74 69.30 North Main below diversion 75752 896.00 60.00 0.15 63.76 71.38 0.000144 2.67 650.59 100.15 North Main below diversion 75752 1573.00 60.00 71.27 2645.00 72.32 65,15 72.56 0.000284 4.02 1038.28 2472.96 0.21 North Main 75752 60.00 below diversion 67.37 73.89 0.000245 4.04 5392.87 4276 89 0.20 elow diversion 75752 4959.00 60.00 73.74 North Main 69.32 69.28 1.91 485,42 0.12 North Main below diversion 75000 896 00 60.00 69 23 62.56 0.000098 1162.16 771.22 0.14 North Main below diversion 1573.00 60.00 71.19 63,65 71.28 0.000125 2.50 75000 2428.96 4016.37 North Mair below diversion 75000 2645.00 60.00 72.20 65.05 72.34 0.000198 3.34 0.14 73.69 0.000114 2.75 10034.06 8844.27 67.25 73.74 North Main below diversion 75000 4959.00 60,00 North Main oelow diversion 896,00 60.00 69.11 62.97 69 17 0.000138 2 03 442.90 68.87 0.14 1714.09 0.15 North Main 1573.00 60.00 71.06 64.14 71 14 0.000151 2.51 1414.95 below diversion

| P)                                      | Plan: P 25%                                    |                |                   | 14:- 05:0 | WO FI          | 0.41110  | 55.5              | 50.0                | V-100-1         |  |  | 400 100 400                           |
|---|--|----------------|-------------------|-----------|----------------|--|-------------------|---------------------|-----------------|--|--|---------------------------------------|
| River                                   | Reach  | River Sta      | Ci Total<br>(cfs) | Min Ch E) | W.S. Efev (ft) | Crit W.S.  | E.G. Elev<br>(ft) | E.G. Slope<br>(Nft) | Vel Chnl (ft/s) | Flow Area  | Top Width  | Froude # Chi                          |
| North Main                              | below diversion                                | 74000          | 2845.00           | 60.00     | 72.08          | 65.57  | 72.16             | 0.000154            | 2.73            | (aq ft)<br>3972.04                               | (ft)<br>3190,21                                  | 0.15                                  |
| North Main                              | **************************************         | 74000          | 4959.00           | 60.00     | 73.80          | 67.92  | 73.63             | 0.000194            | 2.73            | 9143.80  | 12420.30   | 0.12                                  |
| NOTES MADE                              | COLOR MICCOLON                                 | 1-1000         | 4000.00           | 00.001    | 70.00          | 07.52  | 73.00             | 0.000030            | 2.37            | 9143.60  | 12420.30   |                                       |
| North Main                              | below diversion                                | 73000          | 1085.00           | 60.00     | 68.94          | 62,88  | 69.03             | 0.000159            | 2.37            | 470.46   | 68.83  | 0.15                                  |
| North Main                              | below diversion                                | 73000          | 1812.00           | 60.00     | 70.81          | 63.95  | 70.96             | 0.000133            | 3.18            | 605.48   | 75.61  | 0.18                                  |
| North Main                              | below diversion                                | 73000          | 2685.00           | 60.00     | 71.63          | 65.04  | 71.92             | 0.000355            | 4.32            | 668.77   | 78.57  | 0.24                                  |
| North Main                              | below diversion                                | 73000          | 4893.00           | 60.00     | 73.20          | 67.17  | 73.45             | 0.000383            | 4.80            | 4290.99  | 8886.73  | 0.24                                  |
| 1 34,747 31                             | S S 1 (155. 155. 155. 155. 155. 155. 155. 1    | 27. 20         |                   |           |                |  |                   | 0.00000             |                 |  |  |                                       |
| North Main                              | below diversion                                | 72857          | 1085.00           | 60.00     | 68.92          | 62.82  | 69.00             | 0.000152            | 2.32            | 481.66   | 70.89  | 0.15                                  |
| North Main                              | below diversion                                | 72857          | 1812.00           | 60.00     | 70.78          | 63.89  | 70.93             | 0.000204            | 3.11            | 620.18   | 77.93  | 0.18                                  |
| North Main                              | below diversion                                | 72857          | 2685.00           | 60.00     | 71.60          | 64.98  | 71.87             | 0.000339            | 4.23            | 685.09   | 80.99  | 0.23                                  |
| North Main                              | below diversion                                | 72857          | 4893.00           | 60.00     | 73.11          | 67.07  | 73.40             | 0.000399            | 5.01            | 3791.65  | 8374.24  | 0.26                                  |
| rent (Aug. agus ios.)                   | \$1.490 St.                                    | 3              |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 72794          | 1085.00           | 60.00     | 68.90          | 62.97  | 58.99             | 0.000177            | 2.49            | 449.48   | 66.78  | 0.16                                  |
| North Main                              | below diversion                                | 72794          | 1812.00           | 60.00     | 70.74          | 64.09  | 70.91             | 0.000233            | 3.29            | 686.50   | 244.75   | 0.19                                  |
| North Mein                              | below diversion.                               | 72794          | 2685.00           | 60.00     | 71.58          | 65.21  | 71.88             | 0.000357            | 4.31            | 918.11   | 308.08   | 0.24                                  |
| North Main                              | below diversion                                | 72794          | 4893.00           | 60.00     | 73.18          | 67.35  | 73.35             | 0.000294            | 4.30            | 5579.81  | 11654.05   | 0.22                                  |
| 11678(015)(013)                         | 342 C. C. C. S. W.                             | 98 L. C        |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 72780          | Bridge            |           |                |  |                   |                     |                 |  |  |                                       |
|   | ารใน เกิดเกล้าเลือนได้                         | Karan Esta     |                   |           |                |  | -                 |                     |                 |  |  | 1                                     |
| North Main                              | below diversion                                | 72766          | 1085.00           | 60.00     | 68.88          | 62.97  | 68.98             | 0.000179            | 2.49            | 448.24   | 66.71  | 0.16                                  |
| North Main                              | below diversion                                | 72766          | 1812.00           | 60.00     | 70.71          | 64.09  | 70.68             | 0.000236            | 3.30            | 678.11   | 242,15   | 0.19                                  |
| North Main                              | below diversion                                | 72768          | 2685.00           | 60.00     | 71.56          | 65.21  | 71.83             | 0.000361            | 4.32            | 911.57   | 308.45   | 0.24                                  |
| North Main                              | below diversion                                | 72768          | 4893.00           | 60.00     | 72.92          | 67.35  | 73.18             | 0.000407            | 4.98            | 4493.67  | 4106,55  | 0.26                                  |
|   | 18 A. B. A. 19 B. A.                           |                |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 72680          | 1085.00           | 60.00     | 68.87          | 62.97  | 68.98             | 0.000180            | 2.50            | 447.32   | 66.66  | 0.18                                  |
| North Main                              | below diversion                                | 72880          | 1812.00           | 60.00     | 70.69          | 64.10  | 70.88             | 0.000238            | 3.31            | 673.54   | 240.72   | 0.19                                  |
| North Main                              | below diversion                                | 72680          | 2685.00           | 80.00     | 71.53          | 65.20  | 71.81             | 0.000365            | 4.34            | 902.65   | 304.24   | 0.24                                  |
| North Main                              | below diversion                                | 72680          | 4893.00           | 60.00     | 72.84          | 67.35  | 73.13             | 0.000448            | 5,19            | 4188.85  | 4048.99  | 0.27                                  |
| 11.100000000000000000000000000000000000 |  |                |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 71500          | 1085.00           | 60.00     | 68.64          | 62.97  | 68.75             | 0.000189            | 2.68            | 444.08   | 68.90  | 0.17                                  |
| North Main                              | below diversion                                | 71500          | 1812.00           | 60.00     | 70.47          | 64.07  | 70.59             | 0.000189            | 3.05            | 2131.91  | 3650.99  | 0.17                                  |
| North Main                              | below diversion                                | 71500          | 2685.00           | 60.00     | 71.50          | 65.12  | 71.54             | 0.000094            | 2.30            | 6016.85  | 3881.82  | 0.12                                  |
| North Main                              | below diversion                                | 71500          | 4893.00           | 60.00     | 72.87          | 67.37  | 72.89             | 0.000068            | 2.08            | 11478.22   | 10631.39   | 0.10                                  |
| a Migray and                            | Adams in the                                   | 201-y 1 31 -   |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 70221          | 1085.00           | 60.00     | 68.43          | 62.83  | 68.52             | 0.000168            | 2.47            | 785.36   | 891.01   | 0.16                                  |
| North Main                              | below diversion                                | 70221          | 1812.00           | 60.00     | 70.40          | 63.91  | 70,43             | 0,000076            | 1.93            | 3694.17  | 3587.69  | 0.11                                  |
| North Main                              | below diversion                                | 70221          | 2685.00           | 60.00     | 71.42          | 64.92  | 71,44             | 0,000058            | 1.80            | 6052.82  | 3633.01  | 0.10                                  |
| North Main                              | below diversion                                | 70221          | 4893.00           | 60.00     | 72.78          | 67.10  | 72.80             | 0.000085            | 2.07            | 9258.81  | 10664.79   | 0.10                                  |
| e verifically to be a                   |  | <u> </u>       |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 70158          | 1085.00           | 60.00     | 68.42          | 62.61  | 68.49             | 0.000148            | 2.20            | 537.01   | 230.04   | 0.14                                  |
| North Main                              | below diversion                                | 70158          | 1812.00           | 60.00     | 70.33          | 63.62  | 70.41             | 0.000136            | 2.47            | 2098.36  | 3739.55  | 0.14                                  |
| North Main                              | below diversion                                | 70158          | 2685.00           | 60.00     | 71.39          | 64.64  | 71.43             | 0.000095            | 2.21            | 4665.82  | 3853.61  | 0.12                                  |
| North Main                              | below diversion                                | 70158          | 4893.00           | 60.00     | 72.76          | 68.61  | 72.80             | 0.000092            | 2.37            | 8193.05  | 10710.73   | 0.12                                  |
|   | \$ 5 W 10 1 10 10 10 10 10 10 10 10 10 10 10 1 |                |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 70144          | Bridge            |           |                |  |                   |                     |                 |  |  |                                       |
| ACCES CHAS                              |  | T., 3 T., 3 C. | <b> </b>          |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 70130          | 1085.00           | 60.00     | 68.41          | 62.61  | 68.48             |                     | 2.21            | 534.38   |  | 0.14                                  |
| North Main                              | below diversion                                | 70130          | 1812.00           | 60.00     | 70.30          | 63.82  | 70.38             | -                   | 2,50            |  | <del> </del>                                     | 0.15                                  |
| North Main                              | below diversion                                | 70130          | 2685.00           | 60.00     | 71.35          | 64.84  | 71.39             | +                   | 2.26            |  | 3849.21  | 0.12                                  |
| North Main                              | below diversion                                | 70130          | 4893.00           | 60.00     | 72.72          | 68.82  | 72.78             | 0.000095            | 2.40            | 8087.06  | 10649.89   | 0.12                                  |
|   | 48.3425.                                       |                | ļ                 |           |                |  |                   |                     |                 | <u> </u>   |  |                                       |
| North Main                              | below diversion                                | 70044          | 1085.00           | 60.00     | 68.41          | 62.61  | 68.48             | +                   | 2.21            | 533.93   | 225.51   | 0.14                                  |
| North Main                              | below diversion                                | 70044          | 1812.00           | 60.00     | 70.29          | 63.62  | 70.37             | +                   | 2.52            |  | 3735.14  | 0.15                                  |
| North Main                              | below diversion                                | 70044          | 2685.00           | 60.00     | 71.33          | 64.63  | 71.38             |                     | 2.28            | 4519.42  | 3847.22  | 0.13                                  |
| North Main                              | below diversion                                | 70044          | 4893.00           | 60.00     | 72,71          | 66.62  | 72.74             | 0.000096            | 2.41            | 8046.23  | 10626.13   | 0.13                                  |
| Bloods LE-1-                            | halam di                                       | 70000          | 1085.00           | 60.00     | 68.40          | 62.53  | 68.47             | 0.000134            | 2.11            | 540.98   | 146.45   | 0.14                                  |
| North Main<br>North Main                | below diversion                                | 70000          | 1812.00           | 60.00     |                | 63.50  | 70.36             | <del></del>         | 2.11            |  | 3354.80  |                                       |
| North Main                              | below diversion                                | 70000          | 2685.00           | 60.00     |                | 64.48  | 70.36             | <del>†</del>        | 2.43            | +  | +  |                                       |
| North Main                              | below diversion                                | 70000          | 4893.00           | 60.00     |                |  | 71.37             | +                   |                 |  | +  |                                       |
| TOTAL SHAIFT                            | La Kathana                                     | 1,000          | 4093.00           | 30.00     | 12.00          | 00.42  | 12.74             | 0,000109            | 2.36            | 7.332.73   |  | 0.13                                  |
| North Main                              | below diversion                                | 69000          | 1085.00           | 60.00     | 68.28          | 62.37  | 68.34             | 0.000125            | 2.03            | 542.80   | 81,69  | 0.13                                  |
| North Main                              | below diversion                                | 69000          | 1812.00           | 60.00     | <del></del>    |  | 70.22             |                     | •               |  | +  | <del></del>                           |
| North Main                              | below diversion                                | 69000          | 2685.00           | 60.00     |                |  | 71.25             |                     | -               | <del></del>                                      | +  | · · · · · · · · · · · · · · · · · · · |
| North Main                              | below diversion                                | 69000          | 4893.00           | 60.00     | <del></del>    | 1  |                   | <del> </del>        | +               | <del></del>                                      |  | <del></del>                           |
| - company                               |  |                | 1332.30           | 33.00     | 1.50           | 1  |                   | 1                   |                 | 1  | T  | 1                                     |
| North Main                              | below diversion                                | 68000          | 1085.00           | 60.00     | 68.06          |  | 68.17             | 0.000240            | 2.67            | 413.80   | 68.25  | 0.18                                  |
| North Main                              | below diversion                                | 68000          | 1812.00           | 60.00     |                |  | 70.02             |                     | 3.52            |  |  | <del></del>                           |
| North Main                              | below diversion                                | 68000          | 2685.00           | 60.00     | <del></del>    | <del>                                     </del> | 71.05             | <del></del>         | 4.00            | <del></del> -                                    | <del></del>                                      | <del> </del>                          |
| North Main                              | below diversion                                | 68000          | 4893.00           | 60.00     | +              |  | 72.43             | <del></del>         |                 | <del>1</del>                                     |  | <del></del>                           |
|   |  |                |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 68518          | 1085.00           | 60.00     | 67.71          |  | 67.82             | 0.000250            | 2.65            | 414.60   | 70.07  | 0.18                                  |
| North Main                              | below diversion                                | 66518          | 1812.00           | 60.00     |                | <del></del>                                      | 69.60             | <del></del>         | +               | <del>}                                    </del> | <del>•</del> • • • • • • • • • • • • • • • • • • | 0.19                                  |
| North Main                              | below diversion                                | 66518          | 2685.00           | 60.00     | +              | +  | 70.69             | +                   | ·               | 4018.97  | 2760.64  | <del>•</del>                          |
| North Main                              | below diversion                                | 66518          | 4893.00           |           |                |  | 72.15             | 0.000113            | 2.52            | 9072.51  | 3926.03  | 0.13                                  |
|   |  | L_s            |                   |           |                |  | L                 |                     |                 |  |  |                                       |
| North Main                              | below diversion                                | 86458          | 1085.00           | 60.00     | 67.70          | 62.80  | 67.81             | 0.000252            | 2.66            | 413.60   | 70.01  | 0.18                                  |
| North Main                              | below diversion                                | 66456          | 1812.00           | 60.00     | 69.44          | 63.85  | 69.58             | 0.000262            | 3.16            | 1348.40  | 1974.39  | 0.20                                  |
| North Main                              | below diversion                                | 66456          | 2685.00           | 60.00     | 70.61          | 64.90  | 70.68             | 0,000161            | 2.72            | 3994.30  | 2751.97  | 0.16                                  |
|   | below diversion                                | 66456          | 4893.00           | 60.00     | 72.11          | 66.96  | 72.15             | 0.000113            | 2.52            | 9085.74  | 3924.70  | 0.13                                  |
| North Main                              | DEROTE CITEDION I                              |                |                   |           |                |  |                   |                     |                 |  |  |                                       |
| North Main                              | DELOW GIVE ON                                  | 172            |                   |           |                |  |                   | 1                   |                 |  |  | ļ                                     |

| River                    | Plan P 25%<br>Reach                | 3. (Conti            | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.                             | E.G. Elev          | E.G. Slope           | Vel Chal     | Flow Area                             | Top Width          | Froude # Chi |
|--------------------------|------------------------------------|----------------------|--------------------|----------------|----------------|---------------------------------------|--------------------|----------------------|--------------|---------------------------------------|--------------------|--------------|
| tuver                    | FIBRUS                             | ruvei Sia            | (cfs)              | (ft)           | (ft)           | (ft)                                  | (ft)               | (fl/ft)              | (ft/s)       | (eq ft)                               | (ft)               | Floude # Cit |
|                          | 100 mm and a                       |                      | \—,-,              | 30 OVA 2000    |                |                                       | 10 1 20 WY IN 10 N | Control Control      | 1.27         | 43.4                                  |                    |              |
| iorth Main               | below diversion                    | 66426                | 1085.00            | 60.00          | 67.68          |                                       | 67.79              | 0.000255             | 2.67         | 411.86                                | 69.90              | 0.18         |
| iorth Main               | below diversion                    | 66428                | 1812.00            | 60.00          | 69.32          |                                       | 69.48              | 0.000297             | 3.35         | 1106.35                               | 1932.80            | 0.21         |
| orth Main                | below diversion                    | 66428                | 2685.00            | 60,00          | 70.53          |                                       | 70,61              | 0.000175             | 2.82         | 3788.74                               | 2678.37            | D.16         |
| orth Main                | below diversion                    | 88428                | 4893.00            | 60.00          | 72.06          |                                       | 72.10              | 0.000118             | 2.57         | 8882.38                               | 3890.84            | 0.14         |
|                          |                                    |                      |                    |                |                |                                       |                    |                      |              |                                       |                    |              |
| Vorth Main               | below diversion                    | 06342                | 1085.00            | 60.00<br>60.00 | 67.65<br>69.27 |                                       | 67.77              | 0.000258<br>0.000321 | 2.68         | 410.43                                | 69.61              | 0.19         |
| North Main<br>North Main | below diversion<br>below diversion | 66342<br>66342       | 1812.00<br>2685.00 | 60.00          | 70.44          |                                       | 69.45<br>70.57     | 0.000321             | 3.47         | 820.85<br>2515.26                     | 1193.55<br>1898.98 | 0.22         |
| Vorth Mein               | below diversion                    | 66342                | 4893.00            | 60.00          | 72.00          |                                       | 72.08              | 0.000208             | 3.29         | 6558,56                               | 3187.19            | 0.18         |
|                          |                                    |                      |                    |                |                |                                       |                    | 0,400,150            |              |                                       |                    |              |
| Vorth Main               | below diversion                    | 65921.*              | 1085.00            | 60.00          | 67.53          |                                       | 67.65              | 0.000275             | 2.73         | 401.95                                | 69.30              | 0.19         |
| North Mai:               | below diversion                    | 65921.*              | 1812.00            | 60.00          | 69.12          |                                       | 69.31              | 0.000348             | 3.57         | 708.13                                | 978.15             | 0.22         |
| Vorth Me'n               | below diversion                    | 85921."              | 2685.00            | 60.00          | 70.31          |                                       | 70.46              | 0.000288             | 3.56         | 2332.45                               | 1764.04            | 0.21         |
| North Mein               | below diversion                    | 85921.*              | 4893.00            | 60.00          | 71.90          |                                       | 71.99              | 0.000219             | 3.46         | 6112.67                               | 3160.93            | 0.19         |
|                          |                                    |                      | 4005.00            | 20.00          | 27.40          |                                       | 07.50              | 0.000007             | 0.70         | 200.70                                | 00.74              | 200          |
| Vorth Main               | below diversion                    | 65500                | 1085.00            | 60.00          | 67.40<br>68.97 | 1                                     | 67.52              | 0.000295             | 2.79         | 392.70<br>702.64                      | 68,71<br>481,69    | 0.20<br>0.23 |
| Vorth Midn<br>Vorth Midn | below diversion                    | 65500<br>65500       | 1812.00<br>2685.00 | 60.00<br>60.00 | 70.22          |                                       | 69.16<br>70.33     | 0.000364<br>0.000248 | 3.60<br>3.29 | 2845.21                               | 2084.76            | 0.23         |
| Vorth Muin               | below diversion                    | 65500                | 4893.00            | 60.00          | 71.84          |                                       | 71.90              | 0.000166             | 3.00         | 6841.34                               | 2832.08            | 0.16         |
|                          |                                    |                      |                    |                |                |                                       |                    |                      |              |                                       |                    |              |
| Vorth Main               | below diversion                    | 65133.3*             | 1085,00            | 60.00          | 67.24          |                                       | 67.39              | 0.000385             | 3.04         | 359.14                                | 66.83              | 0.22         |
| North Main               | below diversion                    | 65133.3*             | 1812.00            | 60.00          | 68.76          |                                       | 69.01              | 0.000468             | 4.01         | 467.13                                | 76.86              | 0.26         |
| Yorth Main               | below diversion                    | 86133.3°             | 2685.00            | 60.00          | 69,89          |                                       | 70.19              | 0.000545             | 4.66         | 1224.36                               | 1185.70            | 0.28         |
| North Main               | below diversion                    | 65133.3*             | 4893.00            | 60.00          | 71.65          | ļ                                     | 71.81              | 0.000351             | 4.25         | 4472.79                               | 2342.75            | 0.23         |
|                          | 1                                  | 0 1700 AL            | 1005               |                | 84             |                                       | 27.50              | 0.0004==             | 0.00         | 244.00                                | 04.00              |              |
| North Main<br>North Main | below diversion                    | 64766.6*<br>64766.6* | 1085.00<br>1812.00 | 80.00<br>80.00 | 67.09<br>68.56 |                                       | 87.25<br>68.83     | 0.000435             | 3.17<br>4.18 | 344.28<br>444.41                      | 64.99<br>71.67     | 0.24<br>0.28 |
| North Main               | below diversion                    | 64766,6*             | 2685.00            | 60.00          | 69.49          | , -                                   | 69.94              | 0.000393             | 5.42         | 606.25                                | 735.02             | 0.34         |
| North Main               | below diversion                    | 64788.6*             | 4893.00            | 60.00          | 71.38          | <u> </u>                              | 71.65              | 0.000543             | 5.17         | 3169,39                               | 1695.08            | 0.29         |
|                          |                                    |                      |                    |                |                |                                       |                    |                      |              |                                       | ***                |              |
| North Main               | below diversion                    | 84400                | 1085.00            | 60.00          | 66.95          | 62.85                                 | 67.10              | 0.000411             | 3.12         | 348.49                                | 63.29              | 0.23         |
| North Main               | below diversion                    | 64400                | 1812.00            | 60,00          | 68.37          | 63.92                                 | 68.64              | 0.000548             | 4.18         | 442.09                                | 68.51              | 0.27         |
| Vorth Main               | below diversion                    | 64400                | 2685.00            | 60,00          | 69.19          |                                       | 69.66              | 0.000835             | 5.54         | 499.70                                | 71.64              | 0.35         |
| North Main               | below diversion                    | 64400                | 4893.00            | 60.00          | 70.92          | 67.09                                 | 71.39              | 0.000832             | 6.30         | 2315.87                               | 1509.81            | 0.36         |
| LAN BELL                 |                                    | 00070                | 1005.00            | E 0 00         | 00.50          | 61.20                                 | 66.67              | 0.000195             | 2.29         | 991.67                                | 1957.40            | 0.16         |
| Vorth Main<br>Vorth Main | below diversion<br>below diversion | 62879<br>62879       | 1085.00<br>1812.00 | 58.00<br>58.00 | 66.60<br>68.24 |                                       | 68,27              | 0.000195             | 1.93         | 2786.01                               | 3878.12            | 0.18         |
| North Main               | below diversion                    | 62879                | 2685.00            | 58.00          | 69.19          |                                       | 69.22              | 0.000097             | 2.03         | 4133.14                               | 4915.35            | 0.12         |
| North Main               | below diversion                    | 62879                | 4893.00            | 58.00          | 70.92          |                                       | 70.95              | 0,000091             | 2.22         | 7205.69                               | 9177.72            | 0.12         |
|                          |                                    |                      |                    |                |                |                                       |                    |                      |              |                                       |                    |              |
| Vorth Main               | below diversion                    | 62B17                | 1085.00            | 58.00          | 66.63          | 61.09                                 | 66.65              | 0.000058             | 1.37         | 2473.19                               | 3705.76            | 0.09         |
| North Main               | below diversion                    | 82817                | 1812.00            | 58.00          | 68.25          | 62.23                                 | 68.26              | 0.000037             | 1.25         | 4667.26                               | 5348.40            | 0.07         |
| North Main               | below diversion                    | 62817                | 2685.00            | 58.00          | 69.19          | 63.30                                 | 69.20              | <del></del>          | 1.40         | 6087.83                               | 6230.33            | 0.08         |
| North Main               | below diversion                    | 62817                | 4893.00            | 58.00          | 70.92          | 65.75                                 | 70.94              | 0.000049             | 1.72         | 8892.09                               | 9669.86            | 0.09         |
|                          | 180 30 - 1 - 1 - 3 - 34            |                      |                    |                |                | <del> </del>                          |                    |                      |              |                                       |                    | 1            |
| North Main               | below diversion                    | 62803                | Bridge             |                |                | <del> </del>                          |                    |                      |              |                                       |                    |              |
| North Main               | talless discontan                  | 62789                | 1085.00            | 58.00          | 66.62          | 61.09                                 | 66.63              | 0.000055             | 1.33         | 2589.42                               | 3688.51            | 0.09         |
| North Main               | below diversion<br>below diversion | 62789                | 1812.00            | 58.00          | 68.23          | +                                     | 68.24              | 0.000034             | 1.20         | 4857.20                               | 5329.98            | 0.07         |
| North Main               | below diversion                    | 62789                | 2685.00            | 58.00          |                | +                                     | 69.18              | <del></del>          | +            | 6323.78                               | 6212.10            |              |
| North Main               | below diversion                    | 62789                | 4893.00            | 58.00          | <del>1</del>   |                                       | 70.92              | <del></del>          | <del></del>  | 9220.23                               | 9628.24            | 0,09         |
| Christ Fall C            |                                    |                      |                    |                |                |                                       |                    |                      |              |                                       |                    |              |
| North Main               | below diversion                    | 62703                | 1085.00            | 58.00          | 68.61          | 61.10                                 | 66.63              | 0.000050             |              | 2774.64                               | 3686.15            | 0,08         |
| North Main               | below diversion                    | 62703                | 1812.00            | 58.00          | <del> </del>   |                                       | 68.24              |                      | +            | 5152.81                               | 5326.37            |              |
| North Main               | below diversion                    | 62703                | 2685.00            | 58.00          | 69.17          | <del></del>                           | 69.18              | 0.00000              | 1.20         | 6687.65                               | 6210.09            | 0.07         |
| North Main               | below diversion                    | 62703                | 4893.00            | 58.00          | 70.91          | 65.62                                 | 70.92              | 0.000041             | 1.58         | 9707.83                               | 9626.02            | 0.08         |
| North Main               | below diversion                    | 62600                | 1085.00            | 58.00          | 66.61          | 61.08                                 | 66.61              | 0.000021             | 0.82         | 4806,31                               | 2984.23            | 0.05         |
| North Main               | below diversion                    | 62600                | 1812.00            | 58.00          |                |                                       | 68.23              |                      |              | 8323.32                               |                    | 0.04         |
| North Main               | below diversion                    | 62600                | 2685.00            | 58,00          |                |                                       | 69.17              | +                    |              | 10482.64                              | <del></del>        |              |
| North Main               | below diversion                    | 62600                | 4893.00            | 58.00          |                |                                       | 70.91              | 0.000018             | 1.04         | 14688.43                              | 8021.52            | 0.05         |
|                          | EXPERIME.                          | Mark Street          |                    |                |                |                                       |                    |                      |              |                                       |                    |              |
| North Main               | below diversion                    | 61620                | 1085.00            | 58.00          | <del></del>    |                                       | 66.60              |                      |              | 5501.90                               |                    |              |
| North Main               | below diversion                    | 61620                | 1812.00            |                |                | · · · · · · · · · · · · · · · · · · · |                    |                      | 0.71         | 9132.56                               | <del></del>        |              |
| North Main               | below diversion                    | 61620                | 2685.00            | 58.00          |                | +                                     |                    |                      | 0.81         | 12377.68                              |                    |              |
| North Main               | below diversion                    | 81620                | 4893.00            | 58,00          | 70.90          | 64.52                                 | 70.90              | 0.000013             | 0.91         | 18878.28                              | 13097.95           | 0.05         |
| North Mair               | below diversion                    | 61584                | 1085.00            | 58.00          | 66,50          | 60.95                                 | 66.58              | 0,000157             | 2.25         | 1027.01                               | 8647.34            | 0.15         |
| North Main<br>North Main | below diversion                    | 61584                | 1812.00            | 58.00          |                |                                       |                    |                      |              | <del>†</del>                          |                    |              |
| North Main               | below diversion                    | 61584                | 2685.00            | 58.00          |                |                                       | <del> </del>       |                      | +            |                                       |                    | <del>+</del> |
| North Main               | below diversion                    | 61584                | 4893.00            | 58.00          |                |                                       |                    |                      |              | +                                     | +                  |              |
|                          |                                    |                      |                    |                |                |                                       |                    |                      |              |                                       |                    |              |
| North Main               | below diversion                    | 81570                | Bridge             |                |                |                                       |                    |                      | ļ            |                                       |                    |              |
| gy bosnit                | 233334433                          | H-W-H                |                    | L              |                | <u> </u>                              | ļ                  | ļ                    |              | ļ                                     |                    | <u> </u>     |
| North Main               | below diversion                    | 61556                | 1085.00            |                | <del></del>    |                                       | +                  |                      |              |                                       | +                  | 1            |
| North Main               | below diversion                    | 61558                | 1812.00            | 58.00          |                |                                       |                    |                      | <del></del>  | · · · · · · · · · · · · · · · · · · · |                    |              |
| North Main               | below diversion                    | 61556                | 2685.00            |                |                |                                       |                    |                      |              | <del></del>                           |                    |              |
| North Main               | below diversion                    | 61558                | 4893.00            | 58.00          | 70.8           | 7 65.18                               | 70.87              | 0.000029             | 1.33         | 14717.79                              | 13090.95           | 0.07         |
| North 12ct               | balasi dhumlar                     | 61443                | 100E 00            | 58,00          | 66.5           | 2 60.97                               | 66.50              | 0.000029             | 5 0.99       | 4755.05                               | 8272.32            | 0.06         |
| North Main               | below diversion                    | 61443<br>61443       | 1085.00            | ·              |                |                                       |                    | <del></del>          | 1            |                                       | <del> </del>       | <del></del>  |
| Vorth Main               |                                    |                      | 1012.00            | . 30.00        | ., 00.13       | o. o∠.us                              | ., 00.16           | ., 5.50001           | ., 0.13      |                                       |                    | ,            |

Plan: P 25% 3 (Continued)
Reach River Sta Q Total IEC-DAS River Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area: Top Width Froude # Chl (cfs) (ft) (H) (ft) (ft) (ft/ft) (ft/s) (sq ft) North Main 81443 w diversion 4893.00 58.00 70.86 65.58 70.86 0.000013 0.94 20752 04 13089 20 0.05 North Main 60700 1085.00 58.10 66.51 61.05 66.51 0.000016 0.77 7066.04 8956.89 0.05 North Main elow diversion 60700 1812.00 58.10 68.15 62.12 68.15 0.000006 0.54 15387.65 10824.37 0.03 North Main 60700 nour diversion 2685.00 58.10 69.11 63.62 69.11 0.55 21569.73 11904.02 0.03 North Main noisravib wole 80700 4893.00 58.10 70.85 65.57 70.85 0.000005 0.57 13087.48 0.03 North Main 1085.00 58,00 66.35 ow diversion 58982 60.95 66.44 0.000185 2.41 795.83 5302 91 0.16 North Main slow diversion 1812.00 58.00 68,10 62.04 68.12 0.000058 1.56 6133 55 9674 16 0.09 North Main elow diversion 2685.00 58.00 89.08 63.10 69.09 0.000030 1.21 11801.16 10612.52 0.07 North Main elow diversion 4893.00 58.00 70.84 65.16 70.85 0.000015 0.98 23722.38 11688.82 0.05 North Main 1085.00 58.00 66.32 61.00 niow diversion 66.43 2.66 418.23 3380.31 0.18 North Main below diversion. 8809 1812.00 58.00 68.00 62.14 68.09 0.000188 2.78 2265.53 6370.08 0.17 North Main below diversion: 8909 2685.00 58.00 69.03 63 27 69 07 D 000114 2.34 5752.34 8180.85 0.13 North Main 8909 w diversion 4893.00 58.00 70.84 65.36 70.85 0.000044 1.62 15123.66 10217.06 0.08 North Main elow diversion 3887 Bridge North Main 1085.00 58.00 66.22 61,00 68,34 0.000240 2.70 411.91 3294.51 0,18 North Main below diversion 58865 1812.00 58 00 67 89 62 14 88.00 0.000213 2 04 1997 AR 6177.80 0.18 North Main noisnavib wole 58866 2885.00 58.00 68.97 63,27 69.02 0.000123 2.41 5519.66 8063.46 0.14 North Main 58.00 4893.00 70.82 65.36 70.83 0.000045 1.83 15013.34 10214.36 0.08 North Main 58787 1085.00 58.00 66.21 61.00 66.32 0.000240 2.69 449.04 3281.15 0.18 North Main below diversion 58787 1812.00 58,00 67.90 62.14 67 98 0.000150 2.47 2949.80 6183.20 0.15 North Main below diversion 58787 2685.00 58.00 68.97 63.27 68 99 0.000080 1 95 7292 23 8394 45 0.11 North Main below diversion 58787 4893.00 58.00 70.81 65.38 70.82 0.000029 1.31 18248.06 10143.17 0.07 North Main below diversion 57900 1085.00 58.00 60.85 66.15 66.18 0.000083 1.59 3385.50 2397.25 0.11 North Main below diversion 57900 1812.00 58.00 67.**88** 61.93 67.89 0.000031 1.13 6072.91 4647.20 0.07 North Mair 57900 2685.00 58.00 68.95 63.00 68.95 0.000025 10195.33 6852.98 0.06 North Main below diversion 4893.00 58.00 70.80 66.02 70.80 0.000019 1 08 20905.54 9640.29 57900 0.06 55821 1085.00 58.00 North Main below diversion 65.96 60.98 66.00 0.000098 1.80 2546.07 3383.33 0.12 North Main 55821 below diversion 1812.00 58.00 67.84 62.06 67.84 0.000019 0.92 10392.26 8651.37 0.05 North Mair elow diversion 55821 2885.00 58.00 68.93 63.08 68.93 0.000011 17784.71 9534.55 0.75 0.04 55821 North Main 4893.00 elow diversion 58.00 70.78 66.08 70.78 30514.72 10116.75 0.000007 0.67 0.03 North Main about diseased on 55758 1085.00 58.00 65.96 60.90 65.99 0.000093 1.78 2706.39 3705.07 0.11 North Main below diversion 55758 1812.00 58.00 67.83 61.99 67.83 0.000015 0.81 11659 02 8811.04 0.05 North Main below diversion 55750 2685.00 58.00 68.92 63.01 68.92 0.000008 0.66 19072.97 9501.08 0.04 North Main below diversion 55750 4893.00 58.00 70.77 66.00 70.77 0.000006 0.62 31666.71 10047.28 0.03 North Main elow diversion 55744 Bridge North Main noimevila wole 55730 1085 00 58 00 65 90 60.90 85 Q8 0.000140 2.14 1558.64 2842.25 0.14 North Main below diversion: 55730 1812.00 58.00 67.80 61.99 67.81 0.000038 1.30 7636.58 0.08 6685.29 North Main below diversion 55730 2685.00 58.00 68.91 63.01 68.91 0.000022 1.06 12721.07 9239.48 0.06 North Main 55730 below diversion 4893.00 58.00 70.74 66.20 70.74 0.000013 0.92 24733.77 10642.77 0.05 1085.00 58.00 North Main below diversion 55644 65.90 60.90 65.94 0.000117 2001.32 2394.37 0.13 below diversion North Main 55844 1812.00 58.00 67.80 61.99 67.80 0.000027 1.09 8059.17 7076.85 0.06 58.00 North Main below diversion 55844 2685 00 68.91 63.01 68 01 0.000018 0.91 14651.00 R631 71 0.05 North Main below diversion 55644 4893.00 58.00 70.73 66.04 70.74 0.000010 0.82 27539.64 10002.54 0.04 North Main 1085.00 58.00 60.68 65.86 0.000088 3145.82 0.11 65.83 1.71 2742.43 North Main elaw diversion 54900 1812.00 58.00 67.78 61.70 67.78 11540.88 5564.52 0.000013 0.76 0.04 North Main 54900 2685.00 58.00 62.70 68.90 18000.01 6735.72 0.04 North Mair aloue diversion 54900 4893.00 58.00 70.72 65.93 70.73 0.000007 0.67 29082.51 7974.21 0.03 1085.00 58.00 65.69 2335.29 North Main below diversion 53165 60.76 65.71 0.000084 1.53 1569.28 0.11 North Main 58.00 53165 1812.00 61.81 2890.41 below diversion 67.75 67.76 0.000026 1.02 7010.23 0.08 North Main elow diversion 68.87 10684.58 3644.80 53166 2685.00 58.00 62.77 68.88 0.000022 1.02 0.08 North Main nolensub wole 53165 4893.00 58.00 70.71 65.20 70.71 0.000019 1.06 18394.32 6305.73 0.08 North Main 53128 1085.00 58.00 65.61 60.67 65.69 0.000178 2.37 925.31 955.93 0.16 North Main below diversion 53128 1812.00 58.00 67.73 61.67 67.75 0.000056 1.58 4712.61 2840.74 0.09 North Main below diversion 53128 2685.00 58.00 68.87 62.64 68.88 0.000039 1.43 8494.68 3763.36 0.08 4893.00 58.00 70.71 64.60 70,71 0.000027 1.32 16509.3 6452.B2 0.07 North Main elow diversion 53128 North Main elow diversion 53114 Bridge North Main 53100 1085 00 58.00 65 57 60 87 65 65 0.000184 2 40 891.88 943.93 0.16 North Main below diversion 53100 1812.00 58.00 67.71 61.67 67.73 0.000053 1.54 5225,33 3452.82 0.09 58.00 4441.53 North Main balow diversion 53100 2685.00 68.84 62.84 68.85 0.000033 1.32 9784.60 0.07 6861.35 5B.00 1.18 19049.18 North Main elow diversion 53100 4893.00 70.69 64.60 70.69 0.000021 0.06 58.00 0.000188 2.41 871.25 936.45 0.16 North Main slow diversion 2987 1085.00 65.55 60.67 65.63 North Main elow diversion 52087 58.00 67,70 61.67 67.72 0.000054 1.55 5190.99 3439 12 0.09 1812.00 North Mair alow diversion 52987 2685.00 56.00 68.83 62.64 68.84 0.000034 1.33 9729.93 4433.25 0.07 6841.06 North Main below diversion 52987 4893 00 58.00 70.6B 64 60 70.68 0.000021 1.18 19002.05 0.06

(Continued) River Sta Q Total JEC-DAS Plan: P. 25% Min Ch El W.S. Elev Crif W.S. E.G. Elev E.G. Slope River Sta Vel Chnl Flow Area Top Width Froude # Chl (ft) (cfs) (ft) (ff) (ft) (ft) (ft/ft) (ft/s) (sq.ft) North Main elow diversion 60.63 65.54 0.00020 2.52 817.77 1109.93 0.17 North Main 1812.00 58.00 below diversion 52500 67.68 61.63 67.70 0.000041 1,35 6337.98 3657.96 0.08 52500 North Main below diversion 2885 00 58.00 68.82 62.61 4497.20 11020.49 0.06 North Main below diversion 52500 4893.00 58.00 70.67 64.58 70.67 0.000017 1.06 20375.14 6836.18 0.05 North Main 1085.00 noisravib wok 50599 56.00 65.10 59.11 65.19 0.000171 2.46 458.52 69.92 0.16 North Main below diversion 1812.00 56.00 67.39 60.26 67.54 0.000196 3.13 632.48 124 55 0.17 56.00 below diversion 68.46 61.39 2685.00 68.69 0.000277 3.98 1332.17 1867,39 0.21 North Main 4893.00 56.00 70.56 63.51 70.61 0.000097 2.64 10137,23 7632.90 0.13 North Main 50550 1085.00 56 00 65.10 58.92 65.18 2.26 482.17 71.23 0.15 North Main below diversion 50550 1812.00 56.00 67.41 60.02 67.53 0.000174 743.49 2.82 792.07 0.16 North Main below diversion 50550 2685.00 56.00 68.54 61.14 68.66 0.000174 3.04 3090 82 3501.71 0.16 North Main 50550 below diversion 4893.00 56.00 70.57 63.32 70.59 0.000056 1.93 12161.63 B547.10 0,10 North Main elow diversion 50536 Bridge North Main 1085 00 56.00 65.07 58.92 65.15 50522 0.00016 2.27 480.50 71.14 0.15 North Main below diversion 50522 1812.00 56.00 67.33 60.02 67.45 0.000180 2.86 739.01 615.87 0.16 North Main below diversion 50522 2685.00 56.00 68.43 61.13 68.57 0.000197 3.21 2705.02 3385.64 0.17 North Main low diversion 50522 4893.00 56.00 70.55 63.32 70.57 0.000057 1.95 12037.78 8538 95 0.10 below diversion 50423 1085.00 56.00 65.06 58.93 65.14 0.000165 2.27 479.54 71.09 0.15 North Main 1812.00 56.00 67.31 60.03 67.44 0.000181 2.86 730.13 591.82 0.16 North Main below diversion 50423 2685.00 58.00 68.41 61.13 88 55 0.000201 3364.21 3.24 2635,19 0.18 North Main below diversion 50423 4893.00 56.00 70.54 63.32 70.56 0.000058 11984,26 8535.43 1.96 0.10 North Main below diversion 49400 1085.00 58.95 56.00 64.87 64.95 0.000176 2.29 475.29 73.32 0.15 below diversion 1812.00 56.00 67.12 67.24 60.05 0.000188 2.86 772.06 2009.26 0.17 North Main 56.00 68.33 61.13 68.3 0.000099 2,26 5583.32 4640.61 0.12 North Main below diversion 4893.00 56.00 70.51 49400 63.29 70.52 1.31 17576.28 8229.56 0.07 North Main below diversion 48450 1085.00 56.00 64.67 59.09 64.77 0.000196 2 53 443 87 71 46 0.17 North Main below diversion 48450 1812.00 56,00 87.10 60.23 67.12 0.000053 1.59 6055.86 5068.04 0.09 2685.00 North Main below diversion 48450 56.00 68.32 61.33 68.32 0.000022 1.12 12396,73 5685.80 0.06 North Main oelow diversion 48450 4893.00 56.00 70.50 63.41 70.50 0.000010 0.83 26125.35 9109.14 0.04 North Main reach 1 233324 2722.00 53.37 64.47 57.28 0.000308 3.03 897.50 104,17 64.62 0.18 North Main mach 1 233324 4319.00 53.37 66.84 58.59 67.02 0.000332 3.50 1871.84 1293.07 0.19 reach 1 North Malo 233824 6086 00 53 37 68.14 59.82 68.26 0.000270 3.32 4147.84 2121.65 0.18 North Main reach 1 233824 10949.00 53.37 70.43 62.59 70.48 0.000162 2.48 9481.63 2565.12 0.14 North Main 2722.00 53.37 56.93 2.75 64.22 64.33 0.000251 988.06 114,24 0.17 North Main reach 1 232833 4319.00 53.37 66.60 58.16 66.72 0.000240 2537.31 3.02 1796.85 0.17 North Main 6086.00 53.37 59.30 68.05 2.55 2556.00 0.13 North Mak reach t 232833 10949.00 53.37 70.33 61.86 70.36 0.000087 2.12 12305.85 2992.02 0.10 North Main reach 1 232775 2722.00 53.37 64.20 56.93 64.32 0.000252 2.76 986 33 114 18 0.17 North Main reach 1 232775 4319.00 53.37 66.57 58.16 66.70 0.000244 3.04 2494.75 1770.51 0.17 North Main 53,37 67.97 reach 1 232775 6086.00 59.30 68.03 0.000154 2.56 5739.29 2554.57 0.13 North Main reach 1 232775 10949.00 53.37 70.32 61.86 70.35 0.000087 2.12 12272.85 2988.00 0.10 North Main reach 1 232000 2722.00 53.37 64 00 56.81 64 12 0.000257 2.80 971.13 110.77 0.17 North Main reach 1 232000 4319.00 53.37 66 53 58 01 66 56 0.000095 1 66 8852 18 3472 36 0.10 North Main reach t 232000 6086.00 53,37 67.95 59.13 67.96 0.00004 1.25 12095.75 4049.05 0.07 North Main 10949.00 reach 1 232000. 53,37 70.29 61.69 70.30 0.000027 1.08 21926.29 4336.41 0.06 North Main reach 1 230198 2722.00 52.60 63.60 55.95 63.70 0.000209 2.57 1059.76 118.33 0.15 North Main reach 1 230198 4319.00 52.60 66.28 57.10 66.35 0.000136 2.37 4942.36 4795.66 0.13 North Main reach 1 230198 6086 00 52 60 67 87 58.19 67.88 0.000040 1.38 14353.08 6272.26 0.07 North Main reach 1 230198 10949.00 52.60 70.26 60.69 70.2€ 0.000017 0.93 29371.54 6300.00 0.05 North Main reach 1 230130 2722.00 52.60 63.57 55.95 2.57 1057.17 63.68 0.000211 118.24 0.15 North Main 230130 4319.00 52.60 66.27 57.10 66.34 4864.12 reach 1 0.000138 2.39 4762.03 0.13 North Mair reach 1 230130 6086.00 52.60 58.19 67.86 0.000040 14323.08 6272.21 0.07 North Main reach 1 230130 10949.00 52.60 70.25 70.26 0.000017 0.93 29355.40 6300.00 0.05 60.69 52.60 North Main reach 1 230000 2722.00 63.54 56.04 63.65 0.000229 2.67 1018.37 114.90 0.16 North Main reach 1 230000 4319.00 52.60 66.25 57.22 66.31 0.000171 2.34 4521.21 4275.50 0.14 North Main 6085.00 67.86 0.000046 reach 1 230000 52.60 58.36 67.87 1.32 13695.11 6142.04 0.07 10949.00 52.60 0.000018 28438.00 6184.82 0.05 North Main reach 1 70.25 60.90 70.26 0.93 230000 North Main reach 1 228819 2722.00 52 61 63.30 55.79 63.39 0.000199 2.48 1095 78 124.53 0.15 North Main reach 1 228819 4319 00 52 61 65.95 56.90 66.08 0.000214 2 92 1921.96 1447.77 0.16 North Main reach 1 228619 6086.00 52.61 67.74 57.96 67.79 0.000102 2.16 8098.57 5498.52 0.11 10949.00 21787,70 5625.35 North Main reach 1 228819 52.61 70.21 60.36 70.22 0.000036 1.25 0.07 227602 North Main 2722.00 52.61 62.95 3.02 0.18 reach 1 56.20 63.09 0.000315 227602 0.000355 1207.77 248.50 0.20 North Main reach 1 4319.00 52.61 65.54 57.42 65.74 3.61 227602 6086.00 North Main reach 1 52.61 67.51 58.60 67.59 0.000234 2.75 5958 64 5806.23 0.16 North Mair reach 1 227602 10949.00 52.61 70.16 61.20 70.17 0.000039 1.17 22483.65 6265.34 0.07

62.42

55.91

52.41

0.000335

62.57

North Main

reach 1

226000

2722.00

108,15

0.19

887.36

3.07

HEC DAS (Continued)
River Sta Q Total Pian : P 25% Rive Reach Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area (cfs) Top Width Froude # Chl (R) (ft) (ft) North Main (ft/ft) reach 1 226000 (ft/s) (ft ps) 4319.00 52 41 (ft) 57.12 North Main 65 18 0.000377 reach 1 226000 3.66 1173.08 6088.00 118.01 52.41 66.73 0.21 58.26 North Main each 1 67.03 0.000462 226000 10949.00 4.38 1389 54 124.95 52.41 69.79 0.23 60.66 70.00 0.000457 4.31 5194.27 2103.42 0.23 North Mair reach 1 224978 2722.00 52.41 62.12 55.62 North Main 62.25 reach 1 0.000283 224978 2.80 970.73 4319.00 52.41 120.30 0.17 84.62 58.73 North Main 64.80 reach 1 224978 0.000316 3.36 1284,13 6086.00 52.41 130.77 0.19 66.33 North Main 57.78 66,58 0.000389 reach 1 4 01 1545,01 224978 10949.00 52.41 200,59 0.21 69.08 60.20 69.47 0.000548 5.24 3160.23 1261,34 0.26 North Main each 1 224934 2722.00 52.41 62.11 North Main 55.62 62.23 0.000284 reach 1 2.81 224934 4319.00 969 11 120.24 52.41 64.60 0.17 56.73 North Main 64.78 0.000317 each 1 224934 6086.00 52.41 3.37 1282,11 130.70 0.19 66 31 57.78 66.56 North Main each 1 0.000391 4.02 224934 10949.00 1541,28 199.40 52.41 0.21 69.05 60.19 69.44 0.000555 5.27 3121.54 1258.23 0.26 North Main reach 1 223155 2722.00 52.35 61.48 55.72 61.63 North Mair 0.000399 reach 1 223155 3.18 856.34 4319.00 114.10 52.35 0.20 63.82 56.87 64.03 0.000574 223155 ach 1 3.74 1203.20 8088.00 293.35 52 35 65.50 0.24 57.96 North Main 65.74 0.000542 each: 1 223155 10949.00 4.02 1822.51 433.14 52.35 68.00 60.43 0.24 68.29 0.000695 4.76 3143.72 639,39 0.28 North Main ech 1 222000. 2722.00 52.03 60.97 55 47 61.15 0.000445 North Main reach 1 222000. 3.32 819.95 110.75 4319.00 52.03 0.22 63,17 North Mai 56.62 63.41 0.000502 reach 1 3.99 6086.00 52.03 382.41 0.23 64.87 57.73 65.07 North Mair 0.000597 reach 1 222000 10949.00 3.91 2350.91 937.68 52.03 0.25 60.22 67.67 0.000379 3.47 5480.85 1361.13 0.20 North Main reach 1 220735 2722.00 51.94 60.31 55.35 60.51 North Main 0.000587 reach 1 3.59 220735 4319.00 757.25 109.28 51.94 0.24 62.40 56.53 62.69 North Main each t 0.000645 4.34 220735 995.30 6086.00 51.94 118.71 0.28 63.74 57.64 64.17 North Main 0.000827 reach 1 5.25 220735 1158.93 0.30 10949.00 51,94 124.78 65,96 60.14 66.76 0.001534 7.27 1957.90 1090.77 0.42 North Main reach 1 220433 2722.00 51.94 60.25 55.35 North Main 60.45 0.000582 reach 1 3.63 220833 750.41 109.00 4319.00 51,94 0.24 62 33 56.53 North Main 62.62 0.000661 reach 1 4.38 220633 6086.00 986.73 118.39 51.94 0.27 63.65 57.84 64.08 North Mak each 1 0.000851 5.31 1147.04 220833 10949.00 124.35 51.94 0.31 65.70 60.14 66.59 0.001578 7.63 1692.43 908.24 0.42 North Mair reach 1 220295 2722.00 51 84 60.09 North Main 55.03 60.28 0.000487 reach 1 220205 3.36 810.07 115.28 4319.00 51.84 62.15 0.22 56.13 62 41 North Main 0.000580 reach 1 220295 4.09 1056.07 6086.00 123.65 51.84 63.41 57.16 0.25 0.000735 North Main 63.60 each:1 220295 10949.00 5.00 1240 B1 322.74 51.84 65.57 59.55 0.2966.03 0.001023 5.95 3226.08 1718.41 0.34 North Main reach 1 219330 2722 On 51.58 59.77 54 33 59.88 North Main each 1 0.000295 2.68 219330 1024.74 143.86 4319.00 0.18 51.58 61.60 55,24 61.96 North Main 0.000343 reach 1 219330 3.26 1324.19 152,20 6086.00 51.58 0.19 62.95 58.12 63.20 Vorth Mah 0.000488 reach 1 219380 4.05 1502.28 156.95 10949.00 51.58 0.23 64.59 58.17 65.12 5.95 2468.99 1317.63 0.32 North Main reach t 218000 2722.00 51.24 59 41 53.79 59.51 North Main 0.000284 reach 1 2.55 1087.75 218000 4319.00 148 38 51.24 0.17 61.38 54.69 61.52 North Main each I 0.000319 3.17 218000 1361.19 6086.00 153.87 0,19 51.24 62.38 55.55 62.61 North Main ech 1 0.000422 3.86 2101.36 218000 10949.00 1345.29 0.22 51.24 63.99 57.54 64.22 0.000480 4.45 4953.44 2033.98 0.24 North Main reach 1 210008 2722.00 51.24 58.91 54.22 59 08 0.000502 3.27 each t 216808 4319.00 832.B! 127.94 0.23 51.24 60.78 55.25 North Main reach 1 61.02 0.000562 3.92 1348.13 216808 1087.62 6086.00 51.24 61.90 0.25 56.23 62.07 North Main 0.000467 each 1 3.80 3345.75 215808 10949.00 2173.56 51.24 0.23 63.66 58.45 63.74 0.0003283.34 7881.37 2990.15 0.19 North Main nach t 216752 2722.00 51.24 58.88 54.22 59.05 North Main 0.000510 reach 1 216752 3.28 828.91 127.79 4319.00 51.24 0.23 60.75 55.25 60 99 North Main 0.000572 reach I 210752 3.94 1313.95 1040.07 6086.00 51.24 61 86 56.23 0.25 62,04 0.000484 North Mair 3.86 216752 3261.64 2161.32 10949.00 0.23 51.24 63.64 63.72 0.000335 3.37 7818.12 2982.80 0.19 North Main wach 1 216000 2722.00 51.25 58.36 54.28 58.59 North Main 0.000725 nach t 3 83 710.28 216000 111,74 4319.00 51.25 0.27 60.18 55.34 60.49 0.000774 North Main reach 1 4.52 1265.80 216000 1143.25 6086.00 51.25 0.29 61.53 56.37 61 68 North Main reach 1 218000 3.75 3602.92 1965.45 10949.00 51.25 63.40 0.23 58.70 63,48 0.000352 2.94 7641.85 2427.02 0.19 North Main reach 1 214269 2722.00 51.25 57.38 53.54 57.52 North Main 214269 0.000513 3.02 901.75 159.17 4319.00 0.22 51.25 59.12 54.38 59.33 0.000552 North Main each t 3.65 1184.62 214269 165,77 6086.00 51.25 0.24 60.60 55.15 60.82 North Main ach 1 0.000516 3.91 2272.59 214289 1234.53 10949.00 0.24 51.25 62.64 56.97 62.81 0.000437 4.03 4929.81 1416.59 0.22 North Main reach 1 212822 2722.00 51.25 55.02 54.07 55.75 0.005010 North Main 6.89 reach 1 212822 395.07 111.84 4319.00 0.65 51.25 56 90 55.08 57.67 0.003202 North Mair 7.05 612.64 each t 212822 6086.00 118.98 0.55 51.25 58.40 56.03 59.31 North Main each 1 0.002858 7.66 794.83 212822 10949.00 124.65 0.53 51.25 60.32 58.20 61.51 0.003182 9.28 1710.37 679.75 0.58 North Main ach 1 212818 Inline Weir North Main reach 1. 212789 2722.00 44.29 55.01 47.79 55.12 0.00023 North Main 2.71 each 1 1005.78 212769 115.13 4319.00 0.16 44.29 56.90 57.09 North Main reach 1 0.000336 3.51 1229.56 212769 6086.00 44.29 122.15 0.20 58.39 50.03 58.59 North Main reach:1 0.000350 3.81 2247.80 590.42 212769 10949.00 0.20 44.29 60.32 52.52 60.6 0.000502 4 91 3511.68 729.03 0.25 North Main 211780 reach 1 2722.00 43.38 46.37 54.94 0.000124 North Main 2.04 reach 1 211780 1335.54 144 20 0.12 4319.00 43.36 56.81 47.41 56.86 0.000112 2.11 3782.78 1599.14 0.11

Plan: P 25% 3 (Cantinued)
River Sta | Q Total HEC\_DA River PAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnt Flow Area Top Width Froude # Chi (cfa) (ft/ft) (ft/e) (tt pe) (11) North Main reach 1 211780 1.9 0.11 0.00009 2208.99 11867.2 10949.00 50.64 North Mair 43.36 60.29 60.32 0.000096 1.92 0.11 North Main reach t 210419 2722.00 43.30 54.62 46.84 54.72 0.000204 2.52 1079.09 122.64 0.15 North Main reach 1 210419 4319.00 43.36 56.68 48.04 56.72 0.000115 2.03 5148.87 2658.00 0.11 North Main reach 1 210419 6086.00 43.36 58.24 49.17 58.25 0.000073 1.29 10052.60 3921,55 0.09 10949.00 51.69 North Main reach 1 210419 43.36 60,23 60.24 0.000049 1.16 18578.87 4582.51 0.07 2722.00 43.31 46.86 54.44 2.51 North Main 20904 54.34 0.00020 1083.54 122.08 North Main 4319.00 43.31 58,32 47.81 56.48 0.000278 3.24 1334,39 186.01 0.18 reach 1 209041 North Main each 1 209041 6086 00 43 31 57.90 48 90 58 OB 0.000293 3.54 2824 05 1522 99 0.19 North Main each 1 209041 10949.00 43,31 60.03 51.36 60.13 0.000231 3.36 8222,01 4681.43 0.17 North Main 54.12 46.61 54.22 2.58 reach 1 208000 2722.00 43.31 0.000212 1055.31 118.69 0.15 North Main reach 1 208000 4319,00 43.31 56.00 47.75 56.18 0.000302 3.36 1285.56 129,54 0.19 6088.00 43.31 48.83 57.70 0.000477 : 98 1980.15 North Mair reach 1 57.46 1205.95 0.23 North Mair each 1 208000 10949.00 43.31 59.64 51.32 59.91 0.000293 2.76 9552.77 5699,27 0.18 Nextb Main reach 1 207788 2722.00 43.31 54.09 46.64 54.19 0.000213 2.52 1079.07 126.89 0.15 reach 1 43.31 55.94 47.80 56.11 0.000302 3.26 191.74 0.19 North Main 207786 4319.00 1326.29 57.60 North Main 6086.00 43.31 57.43 48.88 0.000337 3.50 2942.49 1881.89 0.20 207786 North Main each 1 207786 10949.00 43.31 59.82 51.32 59.85 0.000185 2.13 12335.71 5400.60 0.14 North Mair ach t 207730 2722.00 43 31 54.08 46 64 54.17 0.000213 2.53 1077.50 126 82 0.15 North Main reach 1 207730 4319.00 43.31 55.93 47.79 56.09 0.000303 3.27 1323,01 181.93 0.19 6086.00 3.51 1867.52 North Mair reach 1 207730 43.31 57.42 48.88 57.59 0.000339 2921.25 0.20 10949.00 43.31 51.32 59.84 0.000187 2.14 5388.80 0.14 North Main reach t 207730 59,81 12277.28 North Main reach 1 206000 2722.00 43.32 53.72 46.52 53.81 0.000200 2.46 1703.4 1761.64 0.15 North Main reach 1 208000 4319.00 43 32 55.84 47 64 55.86 0.000056 1.42 8555.79 3952 08 0.08 North Mair reach 1 206000 6086.00 43.32 57,43 48.69 57.43 0.000026 0.94 14851.51 3988.45 0.05 51.10 0.000019 0.83 24594.53 0.05 North Main reach 1 206000 10949.00 43.32 59.75 59.75 4372.45 North Main reach 1 204471 2722.0 43,1 53.34 53.46 0.00026 2.79 0.17 0.000341 North Main reach 1 204471 4319.0 43,17 55.48 47.64 55.67 3.50 1233.41 124.93 0.20 North Main menh 1 204471 6088 00 43 17 57 Q3 48 73 57 29 0.00052 4.15 1641.37 485 73 0.24 North Main reach 1 204471 10949.0 43.17 59.36 51.22 59.64 0.000623 4.78 3851.30 1400.42 0.27 2.22 1227.81 147.95 North Main 43.15 0.14 reach 1 203192 2722.00 53,10 45.93 53.18 0.000168 2.77 0.16 North Main 203192 4319.00 43.15 55.18 46.91 55.30 0.000214 1606.64 194.84 reach 1 reach 1 6086.00 43.15 56.62 47.83 56.79 0.000278 3.35 217.94 0.18 North Main 203192 4.90 747.09 North Main reach t 10949.00 43.15 58.59 2810.81 0.25 203192 North Main ach 1 202000 2722 00 42 72 52.87 45 68 52 96 0.000195 2.44 1116 02 128 37 0.15 North Mair reach 1 202000 4319.00 42.72 54.86 46.71 55.01 0.000264 3.13 1378,62 135.85 0.17 0.000368 2076.30 785.33 0.21 North Main reach t 202000 6086.00 42.72 56.20 47.70 56.41 3.72 4029.69 49.96 58.29 0.000526 4.47 1338.02 0.25 10949.00 42.72 58.04 North Main reach 1 202000 North Main reach 1 201961 2722.00 42.72 52,86 45 69 52.95 0.00019 2.38 1142.35 134 61 0.14 4319.00 42.72 54,85 46.72 54 99 0.00025 3.05 1419 44 148.33 0.17 North Mair reach 1 201961 201961 North Mair reach 1 6086 DC 42.72 56.19 47.69 56.38 0.00032 3.62 2152.12 905.78 0.19 North Mair reach 1 201961 10949.00 42.72 58.02 49.93 58.26 0.00045 4.41 4419.95 1626.89 0.23 201917 2.39 1141.19 134.57 42.72 52.94 0.14 North Main 2722.00 52.85 reach 1 North Main 46.72 54.98 0.000256 3.05 1417.72 148.17 0.17 reach 1 201917 4319.00 42.72 54.84 reach 1 6086.00 42.72 56.17 47 70 56 37 0.000323 3 63 2138 74 899 25 0.19 North Main 201917 North Main reach 1 201917 10949.00 42.72 57,99 49.93 58.23 0.000460 4.44 4367.91 1605.19 0.23 2.40 1132.91 128.93 0.14 42,52 45.48 0.000187 North Main 201322 52.83 reach 1 2722.00 52.74 1388,55 42.52 46.49 54.82 0.000257 3.11 815.66 0.1 reach 1 4319.00 54.67 North Main 201322 47.49 0.000362 3.90 1561.64 976.96 0.21 North Mair reach 1 42.52 56.17 201322 10949.00 42.52 49.74 57.85 0.00084 6.27 1747.31 1144.60 0.32 Vorth Main 201322 57.24 2.63 1033,84 0.17 North Main each 1 200876 2722.00 42.52 52.58 45.87 52.69 0.000258 133.02 0.19 54.65 3.17 1802.59 888.20 42.52 46.99 0.000308 North Main reach 1 200676 4319.00 54.50 42.52 48.0 55.93 3.26 3066.26 1072.76 0.19 55.80 0.00032 200676 6086.00 North Mair reach 1 4949.62 0.26 10949.00 42.52 57.17 50.46 57.3 0.00066 3.50 1660.19 North Mair reach 1 200676 reach 1 200030 2722.00 42 52 52.42 45 58 52 53 0.00023 2.63 1035.63 123 17 0.16 North Main North Mair reach 1 200030 4319.00 42.52 54.34 46.67 54.47 0.00026 3.05 2070.51 809.39 0.17 0.00008 1.87 10549.70 6242.65 0.10 North Mair reach 1 200030 6086.00 42.52 55.78 47.69 55.81 1.67 6435.21 0.09 50.03 57.17 0.00006 19308.93 10949.00 42.52 57.16 North Main reach 1 200030 2722.00 42.52 45.58 52.51 0.000238 2 63 1033 61 123 10 0.16 52.41 North Main 199964 4319.00 42.52 54.32 46 67 54.45 0.000263 3.06 2055 28 807.00 0.17 North Main reach 1 reach 1 1999R4 6086.00 42.5 55.77 47.69 55.80 0.00008 1.88 10511.77 6241.81 0.10 North Mair 57.17 1.68 19282.37 6434.71 0.09 North Main reach f 199984 10949.00 42.52 57.16 50.03 0.00006 45.43 52.05 0.000229 2.55 1292.44 601.74 0.16 42.52 51.95 North Main reach 1 198000 2722.00 4319.00 42.52 54.17 46.47 54.19 0.000066 1.55 8094.80 435B.20 0.09 North Main each 1 198000 0.000029 1.10 17051 23 7605 51 0.08 North Main 6086.00 42.52 55.70 47.44 55.70 reach 1 198000 North Main 42.52 57.09 49.68 57.09 0.000026 1.00 27834.86 7797.04 0.05 reach 1 198000 10949.00

HEC DAS Plan: P 25% 3 (Continued)
River Reach River Sta Q Total Min Ch B W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (11) (ft) (ft/ft) (ft/s) (sq:ft) (ft) North Main reach 1 197361 2722.00 42 52 51.79 45.47 51.90 0.000261 1033,60 191.74 0.17 North Main reach 1 197381 4319 00 42.52 54.08 46.50 54.13 0.000137 5108.35 3538,40 0.12 North Main reach 1 197381 6086.00 42.52 55.67 47 49 55 68 0.000053 1.48 11910.40 5410.14 0.08 North Main ach 1 197381 10949.00 42.52 57.07 49.73 57.08 0.000048 1.48 22015.97 8907.88 0.08 North Main reach 1 197333 2722.00 42,52 51.78 45.48 51.69 0.000262 2.65 1031.13 188 88 0.17 North Main reach 1 197333 4319.00 42.52 54.02 46.51 54.11 0.000209 2.68 3553.23 3327.98 0.15 North Main reach 1 197333 6086.00 42.52 55.66 47.49 55.68 0.000073 1,71 10398.16 5407.23 0.09 North Main each 1 197333 10949.00 42.52 57.06 49.73 0.000060 1.63 20512.49 8907.39 80.0 North Main each 1 196000 2722.00 42.53 51.37 45 52 51.50 0.000321 2.87 950.03 126.67 0.18 North Main reach 1 198000. 4319.00 42.53 53.56 46.56 53.74 0.000361 3.44 1369.60 328.10 0.20 North Main reach 1 198000 6086,00 42.53 55.46 47.56 55.53 0.000192 2.55 6217.71 3947.58 0.15 North Main each 1 198000 10949,00 42.53 56.93 49.84 56.96 0.000140 2.06 12951.50 5116.19 0.12 North Main reach t 194500 2722.00 42.53 50.73 45.69 50.91 0.000491 3.37 808.50 115.68 0.22 North Main reach 1 194500 4319.00 42.53 52.81 46,79 53.07 0.000559 4.08 1058.29 124.40 0.25 North Main 194500 reach t 6086.00 42.53 54.72 47.83 55.03 0.000580 4.57 1682.9 1123.64 0.26 North Mair reach 1 194500 10949.00 42.53 56.51 50.22 56.63 0.00036 3.69 8212.23 0.20 North Main each i 194434 2722.00 42.53 50.70 45.69 50.87 0.000498 3.38 804.49 115.54 0.23 North Main each 1 184434 4319.00 42,53 52.77 46,79 53.03 0.000567 4.10 1053.32 124.23 0.25 North Main reach 1 184434 6086.00 42.53 54.67 47.63 0.000594 4.81 1608.90 1075,37 0.26 North Main reach 1 184434 10949 00 42.53 56.48 50.21 56.60 0.000378 8077.5 4441.08 0.21 North Main each 1 194000 2722.00 42.44 50.48 45.57 50.66 0.000496 3.34 814.69 119 04 0.23 North Main each 1 94000 4319.00 42.44 52.53 46,64 0.000562 52.79 4.05 1087.66 127 98 0.25 184000 North Mair marb t 6088.00 42.44 47.67 54.73 0.000493 4.07 2833.00 2847.68 0.24 North Main each 1 194000 10949.00 42.44 56.41 50.00 0.000234 2.52 10660.36 4470.43 0.16 North Main reach 1 192000 2722.00 42.24 49.23 45.25 49.46 0.000740 3.81 714.91 116.06 0.27 North Main reach 1 192000 4319,00 42.24 51.11 48.30 51.44 0.000817 4 59 123.37 940.16 0.29 North Malr reach 1 92000 6088.00 42.24 53.01 47.30 53.39 0.000927 5.03 1454.27 939.05 0.31 North Main each 1 92000 10949.00 42.24 55,87 49.59 55.94 0.000277 2.94 7887.57 2495.12 0.17 47.10 North Malo mach 1 190533 2722 00 42 24 46.27 45.31 0.005222 7.29 373.52 99,45 0.66 North Main reach 1 190533 4319.00 42.24 48.61 48 40 49.38 0.002791 7.01 616,10 107.67 0.52 North Main reach 1 190533 6086 00 42 24 50.42 47.42 51.28 0.002365 7.46 815.91 114.03 0.49 North Mair reach 1 190533 10949.00 42.24 53.62 49.78 54.91 0.002547 9.11 1202.25 5023.94 0.53 North Main reach 1 90528 Inline Weir North Main each 1 190513 2722.00 38.26 46.27 41,44 46.47 0.000563 3.60 758.27 107.36 0.24 North Mair mach 1 190513 4319.00 38 26 48.61 42.58 48.89 0.000587 4.25 1016.96 115.17 0.25 4.95 North Main reach 1 90513 6086.00 38.26 50.41 43.62 50.79 0.000665 1229.43 120,89 0.27 North Mair reach 1 190513 10949.00 38.26 53.61 46.07 54 30 0.001033 6.68 1638.46 5013.77 0.35 North Main reach 1 90000 2722.00 38.26 46.00 41.28 46.18 0.000525 804.04 3.39 120.34 0.23 North Main reach 1 190000 4319.00 38.26 48.35 42.35 48.59 0.000523 3.93 1098.53 130,33 0.24 North Main reach 1 190000 6086 00 38.26 50.13 43.34 50.45 0.000584 4.55 1336.60 3825.55 0.26 North Main reach 1 190000 10949.00 38.26 53.17 45.64 53.76 0.000967 6.15 1779.52 5328.12 0.34 North Main reach 1 189032 2722.00 38.26 45.39 41.32 45,60 0.000699 3.65 745.31 124.57 0.26 North Meir reach 1 189032 4319.00 47.78 38.26 42.37 48.04 0.000629 4.08 1059 42 138.08 0.26 North Main reach:1 89032 6088.00 38.26 49.51 43.37 49.84 0.000683 4.66 1305.83 512.59 0.28 North Main reach t 189032 10949.00 38.26 52,11 45.64 52.74 0.001128 6.36 1721.76 4874.13 0.36 North Mair reach 1 188975 2722.00 38.26 45 35 41 32 45 58 0.000715 3.68 739.74 124.32 0.27 North Main 188975 reach 1 4319.00 38.26 47.74 42.37 48.00 0.000638 4.10 1053.99 137.84 0.26 North Mai 188975 6086.00 reach t 38.26 49,46 43,37 49.80 0.000693 4.68 1299 46 485 86 0.28 North Mak 88975 10949.00 52.04 reach 1 38.26 45.64 52.67 0.001157 6.41 1708.05 4821.02 0.36 North Mair ach 1 188000 2131.00 37.63 44.85 40.94 44.96 0.000458 2.66 800.97 154.89 0.21 0.000296 North Main reach 1 188000 3219.00 37.63 47 42 41.65 47.53 2.63 1223.65 171.57 0.17 North Mair reach 1 188000 4396.00 37.63 49.18 42.28 49.30 0.000275 2.87 1530.51 177.41 0.17 North Mai 88000 9519.00 37.63 51.39 each 1 44.54 51.78 0.000631 4.93 1930.80 5419.03 0.27 37.63 North Mair reach 1 187869 2131.0 44.72 40.61 44.89 658.54 111.50 0.000584 3.24 0.23 Mouth Mair reach 1 187869 3219.00 37.63 47.30 41.43 47.47 0.000419 3.35 959.50 122.37 0.21 North Mair reach 1 187880 4396.00 37.63 49 04 42.21 49.25 3.73 129.69 0.22 North Main reach 1 187869 9519.00 37.63 50,94 44.93 51.62 0.001139 1433.02 6.64 137.71 0.36 187894 34.85 North Main reach 1 2131.00 44.71 38.32 44.81 0.0002352.49 854.45 108.83 0 16 North Main reach \$ 187694 3219.00 34.85 47.28 39.19 47.40 0.000227 2.81 1146.39 118.31 0.16 North Mair reach t 187694 4396.00 34.85 49.02 39.99 49.18 0.000261 3.24 1357.12 124.85 0.17 North Main 187694 reach 1 9519.00 34.85 50.87 42.84 51.42 0.000770 5.97 1595.10 131.78 0.30 North Main reach 1 186000 2131.00 34.04 44 44 36 94 44.50 0.000134 1 99 1073.01 127.40 0.12 North Mair reach 1 188000 3219.00 34.04 47.01 37.76 47.09 0.000148 2.28 1414.45 147.14 0.13 North Main 34.04 196000 48.83 reach 1 4396.00 38.52 48.87 0.000107 1.80 5697.19 4006.12 0.11 North Main reach 1 196000 34.04 9519.00 51.00 51.01 41.21 0.000058 1.45 14895.18 4156.62 0.08 North Main reach 1 184000 2131.00 34.09 44.19 44.25 36.66 0.000128 1.96 1085.10 126.37 0.12

P 25% 3 (Continued) leach River Sta 0 Total HEC-DAS River Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl Reach (cfa) (ft/ft) (11) (ft) (ft/a) (aq ft) (ft) rearts 1 1B4000. 34.09 North Main 37.45 0.000132 0.12 North Mair reach t TRAININ 4396.00 34.09 48 40 38.21 AR AC 0.000167 1683 18 392.79 0.14 2.64 North Mair reach 1 184000 9519.00 34.09 50.79 40.83 50.84 0.000147 2.34 10052.61 4100.62 0.13 2131.00 0.000121 1103.36 North Main 182000. 33.49 43.93 36,10 43.99 1.93 125.62 0.11 North Main 182000. 33.49 46.47 36.90 46,55 3219.00 0.000128 2.24 1434.00 135.12 0.12 4396.00 North Main 182000 33.49 37.68 0.000144 4097.81 48.21 48.27 2.22 3872.93 0.13 each 1 0.000086 North Main 182000 9519.00 33.49 50.62 40.35 50.64 1.59 14106.77 4125.33 0.09 reach 1 North Mair 180000 2131.00 33,44 43 67 36.12 43 74 0.000134 2 01 1060 23 123.01 0.12 reach 1 North Main 180000 3219 00 33 44 46 20 36 93 46 28 0.000141 2 33 1382 39 132.55 0.13 reach 1 North Main 180000 4396.00 33.44 47.84 37.70 47.95 0.000170 2.74 1605.14 138.77 0.14 North Main reach 1 180000. 9519.00 33.44 50.40 40.38 50.44 0.000138 2.29 10372.90 4111.40 0.13 33,43 36.68 0,000245 North Main reach 1 178120 2131.0 43.30 2.50 113.00 0.16 North Main 2.79 mach t 178120 3219.00 33.43 45.82 37.63 45 94 0.000238 1152.69 126.49 0.16 North Main reach t 178120 4396.00 33.43 47.38 38.52 47.54 0.000281 3.24 1357.16 134.88 0.16 North Main reach 1 178120 9519.00 33.43 50.05 41.54 50.14 0.000216 3.12 8373.56 4099.88 0.16 North Main reach 1 178059 2131.00 33.43 43.29 36.66 43.39 0.000240 2,50 850.73 112.95 0.16 North Main reach 1 3219.00 33.43 45.8 37.63 45.93 0.000239 2.80 1151.61 126.44 0.16 North Mair reach 1 178059 4398.00 33.43 47.37 38 52 47.53 0.000282 3.24 1355.78 134.83 0.18 North Main reach 1 178059 9519.00 33.43 50.03 41.54 50,12 0.000219 3,14 8314.43 4099.23 0.16 reach 1 33.28 36.16 0.000167 977.95 118.56 North Main 178000 2131.00 43.30 43.37 2.18 0.13 North Main 178000 3219.00 33.28 45.81 37.00 45.91 0.000171 2.50 1288.58 128.53 0.14 North Mair reach 1 178000. 4396.00 33.28 47.38 37.80 47.51 0,000201 2.94 1494.39 134.73 0.16 178000. 9519.00 33.28 50.06 50.10 0.000148 2.20 10610.93 4162.59 0.13 North Main reach t 178000 2131 00 33 44 42 94 36 22 43 02 0.000189 2 25 948 21 121 34 0.14 North Main reach 1 176000. 3219.00 33.44 45.45 37.05 45.55 0.000186 2.54 1267.53 132.59 0.14 North Main reach 1 176000 4396.00 33.44 46.93 37.86 47.07 0.00023 2.99 1468.32 142.88 0.16 North Mair 9519.00 33.44 49,76 40.61 49.80 0.000148 2.32 5020.29 0.13 reach 1 178000 North Main reach 1 174292 2131.00 32.56 42 68 35 39 42 74 0.000133 1.99 1069 54 125 16 0.12 North Mair reach 1 174282 3219.00 32.56 45,19 36.18 45.28 0.000138 2.31 1393.99 133.11 0.13 North Main reach 1 174282 4396.00 32.56 46.60 36,92 46.71 0.000181 2.78 1583.90 140.60 0.15 6614.79 North Main reach 1 174282 9519.00 32.56 49.30 39.50 49.45 0.000329 3.53 6902.95 0.19 North Main 173031 32.46 42.48 35.27 42.56 0.000164 2.16 984.3 119.64 2131.00 0.13 reach 1 0.000169 1298.01 North Mair reach 1 173031 3219.00 32.46 44.99 36.12 45.08 2.48 131.00 0.14 North Main reach 1 173031 4396.00 32.46 46.33 36.94 46 47 0.000219 2.97 1477.70 137.11 0.16 North Main ach 1 173031 9519.00 32.46 49.02 39.74 49.12 0.000198 3,11 9888.07 7835.90 0.16 2131.00 35.27 42.55 0.000165 2.17 983,26 119.60 0.13 North Main reach t 172979 32.46 42.48 32.46 36.12 1296.83 130.96 0.14 44.98 45,08 0.000170 2.48 North Main reach t 172979 3219.00 32.46 North Mair 46.32 36.94 0.00021 2.98 1476.08 137.06 0.16 4396.00 reach 172979 reach 1 172979 9519.00 32.46 49.00 39.74 49.10 0.000204 3.16 9703.76 7833.75 0.16 North Mair North Main nach 1 172000 2131.00 32.46 42.32 35.18 42.39 0.000158 2.13 1002.07 121.33 0.13 North Main reach 1 172000 3219.00 32.46 44.82 36.00 44.91 0.000161 2.45 1316.36 130.04 0.14 32.46 46.24 1486,92 134.52 36.78 0.000210 2.96 0.16 North Main reach I 172000 4396.00 46.11 32.46 48.50 48.77 0.000552 4.48 4140.48 3487.04 39.52 0.25 North Main reach 1 172000 9519.00 reach 1 170000 2131.00 32.45 42 D1 34 99 42.08 0.000150 2.07 1027 27 123.76 0.13 North Main North Main eaach 1 170000 3219.00 32.45 44.50 35.77 44.59 0.000155 2.39 1346.77 133.47 0.13 North Main reach f 170000 4396.00 32.45 45.66 36.51 45.79 0.000243 2.91 1510.67 156.57 0.17 0.000863 1731.12 0.31 32.45 47.00 39.12 47.47 5.50 179.38 North Main reach 1 170000 9519.00 0.000184 983.37 123.77 0.14 North Main reach 1 68000 2131.00 32.50 35.12 41.75 2.21 32.50 44.16 35.92 44.26 0.000177 2.50 1370.25 628.44 0.14 North Main each 1 168000 3219.00 North Main earh t 16BDDC 4398.00 32 50 45 21 36.67 45.30 0.000239 2.55 3653.53 3992.53 0.16 0.17 North Main reach 1 168000 9519.00 32,50 46.41 39.32 46.47 0.000282 2.84 8487.48 4232.98 32.50 41.61 35.19 41.69 0.000207 2.33 913.27 117.61 0.15 reach 1 187722 North Main 2131.00 0.15 North Main 3219.00 32.50 44.09 36,00 0.000202 2.64 1219.96 reach 1 167722 0.000226 North Main reach 1 167722 32 50 45.11 36.78 45.23 2.93 2962.57 4049.09 0.16 9519.00 32.50 46.33 39.52 46.41 0.000223 3.05 10436.21 7241.52 0.16 North Main each 1 167722 41.59 35.19 117.54 0.15 North Main reach 1 167642 2131.00 32.50 41.68 0.000208 2.34 911.25 32.50 44.08 36.01 0.000203 2.65 1217.77 136.95 44.19 0.15 North Main reach 1 167642 3219.00 3888.28 North Main 187642 32.50 45.09 36.79 45.21 0.00023 2.96 2865,66 0.16 4396.00 reach 1 46.31 39.52 0.00023 10222.63 7226.56 0.16 North Main each 1 167642 9519.00 32.50 46.38 3.11 0.000238 0.16 North Main each 1 166000 2131.00 32.51 41.22 35,23 41.3D 2.39 892.01 124.77 36.05 1226.41 0.17 North Main each 1 168000 3219.00 32.51 43.69 43.80 0.000275 2.62 166.20 36.83 3.14 1640.61 1884.60 0.20 44.56 44.72 32.51 0.000398 North Main reach 1 166000 4396.00 39.53 0.000174 13005.90 0.14 46.01 2.24 North Main reach 1 166000 9519.00 32.51 31.68 40 83 34.23 40.90 0.000171 2.12 1003.28 130.48 0.13 North Main 184000 2131.00 164000. 3219.00 31.68 43 24 35 01 43 32 0.000206 2 28 1665.13 941.61 0.15 North Main reach 1 6695.53 North Main reach 1 164000 4396.00 31.68 44.20 35,75 44.24 0.000140 1,96 6273.46 0.12 18522.39 7844.15 45.82 38.37 0.000066 1.45 0.09 North Main reach 1 164000 9519.00 31.68 45.83

|                          | River Reach  |                    | Q Total                       | Min Ch El  | W.S. Elev  | Crit W.S.      | E.G. Elev  | E.G. Slope                            | Vei Chni     | Flow Area         | Top Width  | Froude # Chi                                       |
|--------------------------|--|--------------------|-------------------------------|--|--|----------------|--|---------------------------------------|--------------|-------------------|--|--|
| 9.440 9.35               | effette :  | River Sta          | (cls)                         | (ft)   | (ft)   | . (ft)         | (ft) ·   | (fVft)                                | (ft/s)       | (sq ft)           | (ft)   |  |
|                          | 97.5   | , s                |                               |  |  |                |  |                                       |              |                   |  |  |
| iorth Main               | reach 1  | 163662             | 2131.00                       | 31.34  | 40.77  | 33.90          | 40.84  | 0.000158                              | 2.09         | 1020.64           | 127.57   | 0.13   |
|                          | reach 1  | 163662             | 3219.00                       | 31.34  | 43.17  | 34.68          | 43.25  | 0.000191                              | 2.36         | 1585.36           | 950.32   | 0.14   |
|                          | reach 1  | 163662             | 4396.00                       | 31.34  | 44.14  | 35.43          | 44.18  | 0.000202                              | 2.07         | 4927.37           | 4677.43  | 0.14   |
|                          | reach i  | 163682             | 9519.00                       | 31.34  | 45.80  | 38.04          | 45.81  | 0.000103                              | 1.68         | 14317.01          | 6000.00  | 0.11   |
| orth Main                | reach 1  | 183805             | 2131.00                       | 31.34  | 40.76  | 33.90          | 40.83  | 0.000159                              | 2.09         | 1019.46           | 127.53   | 0.13   |
|                          | reach 1  | 163605             | 3219.00                       | 31.34  | 43.16  | 34.69          | 43.24  | 0.000190                              | 2.37         | 1574,78           | 927.70   | 0.14   |
|                          | reach 1  | 163605             | 4396.00                       | 31.34  | 44.12  | 35.43          | 44.17  | 0.000205                              | 2.09         | 4868.77           | 4657.32  | 0,14   |
|                          | reach 1  | 163605             | 9519.00                       | 31.34  | 45.79  | 38.04          | 45.81  | 0.000104                              | 1.66         | 14280.64          | 6000.00  | 0.1  |
|                          |  | 1881               |                               |  |  |                |  |                                       |              |                   |  |  |
| orth Main                | reach 1  | 162000.            | 2131.00                       | 31.35  | 40.49  | 33.93          | 40.56  | 0.000180                              | 2.16         | 987.24            | 129,92   | 0.14   |
|                          | reach (  | 162000.            | 3219.00                       | 31.35  | 43.01  | 34.72          | 43.03  | 0.000084                              | 1.45         | 5925.04           | 4970.45  | 0.0  |
|                          | reach 1  | 162000.            | 4398.00                       | 31,35  | 44.02  | 35.48          | 44.03  | 0.000043                              | 1.06         | 11970.29          |  | 0.0  |
|                          | reach 1  | 162000.            | 9519.00                       | 31.35  | 45.71  | 38.10          | 45.71  | 0.000029                              | 0.95         | 24754.86          | 7883,17  | 0.0  |
| 201                      |  |                    | 0404.00                       |  | 40.48  | 00.07          | 40.23  | 0.000154                              | 2.01         | 1058,48           | 137.24   | 0.1  |
| AND THE RESERVE          | reach 1<br>reach 1   | 180000.            | 2131.00<br>3219.00            | 31.35<br>31.35                                   | 40.18<br>42.71                                     | 33.67<br>34.39 | 42.79  | 0.000182                              | 2.28         | 1425.89           |  | 0.1  |
| orth Main                | reach:1  | 160000.            | 4396.00                       | 31.35  |  |                | 43.89  | 0.000128                              | 1.92         | 5785.96           |  | 0.1  |
|                          | reach I  | 160000.            | 9519.00                       | 31.35  |  | 37.51          | 45.62  | 0.000083                              | 1.48         | 18280.64          |  | 0.0  |
|                          |  | sis in the last    |                               |  |  |                |  |                                       |              |                   | <u> </u>   |  |
| orth Main                | reach 1  | 158000.            | 2131.00                       | 31.36  | 39.79  | 33.86          | 39.87  | 0.000212                              | 2.26         | 941.23            | 130.58   | 0.1  |
| orth Main                | reach f  | 158000.            | 3219.00                       | 31,38  | 42.29  | 34.62          | 42.38  | 0.000221                              | 2.50         | 1285.52           | 158.22   | 0.1  |
| orth Main                | reach 1  | 158000             | 4398.00                       | 31, <b>38</b>                                    |  | 35. <b>34</b>  | 43.61  | 0.000164                              | 2.11         | 5041.88           | <del></del>  | 0.1  |
| orth Main                | reach t  | 158000.            | 9519.00                       | 31.36  | 45.48  | 37.88          | 45.49  | 0.000066                              | 1.44         | 18248.26          | 7860.84  | 0.0  |
| <u> </u>                 | Politica de la composition della 100                |                               |  |  |                |  |                                       |              |                   |  |  |
| orth Main                | reach 1  | 157191             | 2131.00                       | 31.36  | 39.58  | 33.94          | 39.67  | 0.000264                              | 2.49<br>2.78 | 854.56<br>1187.68 | 120.27<br>130.14                                   | 0.1  |
| lorth Main<br>Iorth Main | reach 1<br>reach 1   | 157191             | 3219.00<br>4396.00            | 31.36<br>31.36                                   | 42.08<br>43.27                                     | 34.73<br>35.49 | 42.20<br>43.42                                     | 0.000238                              | 3.20         | 1999.55           | <del></del>  | 0.1  |
|                          | reach t  | 157191             | 9519.00                       | 31.36  |  |                | 45.42  | 0.000285                              | 2.06         | 15361.61          | <del></del>  | <del></del>  |
|                          | (100 Section 1   |                    | 30,0.00                       | 07.00  |  | 55.10          |  |                                       |              |                   | † <del></del>                                      | <u> </u>   |
| lorth Main               | reach 1  | 157140             | 2131.00                       | 31.36  | 39,56  | 33.94          | 39.66  | 0.000265                              | 2.50         | 852.87            | 120.21   | 0,1  |
| orth Main                | reach 1  | 157140             | 3219.00                       | 31.38  | 42.07  | 34.73          | 42.18  | 0.000239                              | 2.76         | 1168.04           | 130.09   | 0.1  |
| orth Main                | reach 1  | 157140             | 4396.00                       | 31.36  | 43.26  | 35.48          | 43.41  | 0.000288                              | 3.21         | 1962.40           |  | <del></del>  |
| orth Main                | reach 1  | 157140             | 9519.00                       | 31.38  | 45.39  | 38.13          | 45.42  | 0.000104                              | 2.07         | 15316.75          | 8000.00  | 0,1  |
|                          |  | 321-321-31         |                               |  | ļ  |                |  |                                       |              |                   |  | ļ  |
| orth Main                | reach 1  | 158000.            | 2131.00                       | 31.38  | -  | 33.87          | 39.35  | 0.000286                              | 2.58         | 833.42            | <del>•                                      </del> | <del></del>  |
| orth Main                | reach 1  | 158000.            | 3219.00                       | 31.38  |  |                | 41.90  | 0.000254                              | 2.80         | 1148.36           | <del></del>  | <del>,                                      </del> |
| orth Main                | reach 1  | 158000.            | 4396.00                       | 31,38  | +  |                | 43.03  | 0.000392                              | 3.19<br>1.57 | 1808.10           |  | •  |
| lorth Main               | reach 1  | 156000.            | 9519.00                       | 31.36  | 45.30  | 38.00          | 45.32  | 0.000074                              | 1.5/         | 17676.38          | 7827.58  | 0.0  |
| iorth Mairr              | reach 1  | 154644             | 2131.00                       | 31.37  | 38.85  | 33.74          | 38.95  | 0.000292                              | 2.54         | 837.74            | 123.09   | 0.1  |
| lorth Main               | reach 1  | 154644             | 3219.00                       | 31.37  | +  |                | 41,57  | 0.000242                              | 2.76         | 1166.95           | 1  |  |
| lorth Main               | reach 1  | 154644             | 4396.00                       | 31.37  | <del>                                       </del> | +              |  |                                       | 3.42         | 1286.80           | •  | 0.   |
| lorth Main               | reach 1  | 154844             | 9519.00                       | 31.37  | 4  | <del></del>    | 45.14  | 1                                     | 3.07         | 9394.75           | 7770.71  | 0.   |
| grada sûs sûperûnek      | Gradforate it.   | 12862-5            |                               |  |  |                |  |                                       |              |                   |  |  |
| lorth Main               | reach 1  | 153231             | 2131.00                       | 31.03  | 38.35  | 33.72          | 38.47  | 0.000398                              | 2.81         | 759.36            | +  |  |
| lonth Main               | reach 1  | 153231             | 3219.00                       | 31.03  | +  | <del></del>    |  |                                       | 2.91         | 1106.93           |  |  |
| lorth Main               | reach 1  | 153231             | 4396.00                       | 31,03  |  |                |  |                                       |              | 1207.68           |  |  |
| korth Main               | reach 1  | 153231             | 9519.00                       | 31.03  | 44.17  | 37.81          | 44.50  | 0.000965                              | 5.09         | 4160.42           | 5574.67  | 0.   |
| forth Main               | reach 1  | 152581             | 2131.00                       | 31.03  | 38.04  | 33.67          | 38.16  | 0.000476                              | 3.00         | 710,17            | 119.10   | 0.:  |
| orth Main                | reach 1  | 152581             | 3219.00                       | 31.05  |  |                |  |                                       | 3.03         | 1062.77           | +  | <del></del>  |
| iorth Main               | reach 1  | 152561             | 4398.00                       | 31.00  | +  |                |  | · · · · · · · · · · · · · · · · · · · | 3.83         |                   |  | <del></del>  |
| lorth Main               | reach 1  | 152561             | 9519.00                       | 31.00  | ·+ ·   | <del></del>    |  |                                       | 4.35         | 5171.28           |  |  |
| na sin a an e            | Stanki kii i   | Tital da na        |                               |  |  | 1              |  |                                       |              |                   |  |  |
| lorth Main               | reach 1  | 152553             | Inline Weir                   |  |  | <u> </u>       |  |                                       |              |                   |  |  |
| dia nari                 |  |                    |                               |  |  |                |  |                                       |              |                   |  |  |
| lorth Main               | reach 1  | 152515             | 2131.00                       |  |  | <del></del>    |  |                                       | 2.08         | 1026.5            |  |  |
| iorth Main               | reach 1  | 152515             | 3219.00                       | 28.25  |  | <del></del>    |  |                                       |              | 1390.90           |  | <del>,</del>                                       |
| ionth Main               | reach 1  | 152515             | 4396.00                       |  |  |                |  |                                       |              |                   |  |  |
| lorth Main               | reach 1  | 152515             | 9519.00                       | 28.29  | 5 43.6   | 1 35.13        | 43.77  | 0.000537                              | 3.74         | 5809.3            | 3362.0   | 2 0.   |
| lorth Main               | reach 1  | 152000.            | 2131.00                       | 28.25  | 5 37.9   | 6 30.90        | 38.00  | 0.000162                              | 2.12         | 1002.9            | 4 124.45   | 5 0.   |
| ioren Main<br>Ioren Main | reach 1  | 152000.            | 3219.00                       |  |  |                |  |                                       | <del></del>  | <del>,</del>      | <del></del>  |  |
| lorth Main               | reach f  | 152000.            | 4396.00                       | 28.2   |  |                |  | <del></del>                           | -            |                   | +  |  |
| lorth Main               | reach 1  | 152000.            | 9519.00                       |  |  | <del></del>    | <del>†                                      </del> | <del></del>                           | +            |                   |  |  |
|                          | 1. Z. (2. 1 a. 1   |                    |                               |  |  |                |  |                                       |              |                   |  |  |
| lorth Main               | reach 1  | 151600             | 2131.00                       | 28.2   | 5 37.9   | 30.7           |  |                                       |              |                   |  |  |
| forth Main               | reach 1  | 151800             | 3219.00                       |  |  |                | <del></del>  |                                       | 4            |                   |  |  |
| iorth Main               | reach 1  | 151600             | 4396.00                       |  |  |                | <del></del>  | +                                     |              |                   |  |  |
| lorth Main               | reach.1  | 151600             | 9519.00                       | 28.2   | 5 43,4   | 5 34.9         | 43.5   | 0.000140                              | 2.50         | 12456.9           | 6 7996.8   | 2 0  |
|                          | 19.50  | F                  | <b> </b>                      | <del>                                     </del> |  |                | <del> </del>                                       |                                       |              |                   | 2  |  |
| North Main               | reach t  | 151516             | 2131.00                       |  |  | ~              |  | <del></del>                           | <del>•</del> |                   |  |  |
| North Main               | reach 1  | 151516             | 3219.00                       | +  |  |                | +  |                                       | +            | <del></del>       |  | +  |
| Vorth Main               | reach 1  | 151516             | 4396.00                       | +  |  |                |  |                                       |              |                   |  | +  |
| <del></del>              | reach 1  | 151516             | 9519.00                       | 28.2   | 5 42.9   | 34.9           | 43.4   | 3 0.000706                            | 5.62         | 1094.8            | 4092.0   | 1 0  |
| North Main               |  |                    | 1                             | 1  | 1  | 1              | 1  | 1                                     | 1            | 1                 |  | <del></del>  |
| North Main               | randa 1  | 150000             | 2121 0                        | 270  | 27.0   | 50.5           | 37 7   | 2 0 000 tes                           | 2 11         | 9940              | 124 7  | ვ  ი   |
| North Main<br>North Main | reach 1  | 150000             | 2121.00                       |  |  |                |  |                                       |              |                   |  | <del></del>  |
| <del></del>              | reach 1<br>reach 1<br>reach 1  | 150000.<br>150000. | 2121.00<br>3193.00<br>4299.00 | 27.9   | 2 40.4   | 8 31.4         | 7 40.5   | 4 0.000162                            | 2 2.34       | 1381.5            | 9 330.9  | 7 0  |

Plan: P 25% 3 (Continued) Reach River Sta 0 Total HEC 2AG W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chri Flow Area Top Width Froude # Chi Min Ch El River (ft/a) (sq ft) (ft/ft) (cla) (ft) (ft) (ft) (ft) (fi) 37.35 29.94 37.4 0.000142 2.02 1047 77 126 33 North Mair each 1 48000 2121.00 27.1 0.12 3193.00 27.14 40.14 30,74 40 21 0.000166 2.18 1695 75 1190 53 0.13 North Mair North Mair 148000 4299 00 27.14 40.57 31 4B 40.60 0.000101 1.74 6671.67 5748.94 0.11 each 1 North Mair each 1 148000. 9227.00 27.14 41.54 34.13 41.57 0.000125 2.03 13844.97 7839.07 0.12 29.81 37.30 1.95 1068.6 129.66 2121.00 27,14 37.24 0.12 North Main reach t 147159 0.000129 147159 39.99 30.59 40.04 0.000243 1.91 2702.34 3993.30 0.15 North Main reach 1 3193.00 27.14 9847.18 40.52 0,000090 7985.39 North Main 4299.00 27.14 40.51 31.30 1.14 0.09 reach 1 147159 41.47 41.48 0.000085 1.22 17370.06 8000.00 North Main reach 1 147159 27.14 33.84 0.09 37 29 1.95 1087 83 North Main 147111 2121 00 27 14 37 23 29 St 0.000130 129 64 0.12 North Main reach 1 147111 3193.00 27.14 39.97 30.59 40.03 0.000247 1.92 2650.17 3885.17 0.15 9611.12 40.51 1.14 7985.00 North Main reach t 147111 4299.00 27,14 40.50 31.30 0.000091 0.09 41.47 33.84 41.46 1.22 8000.00 9227.00 27.14 0.00008 0.09 North Main reach 1 147111 North Mali 146000 2121.00 27.13 37.07 29 86 37 13 0.000148 2.06 1030 92 125 27 0 13 North Main each 1 146000 3193.00 27.13 39.74 30.65 39.80 0.000162 2.13 2261.73 2427.94 0.13 North Mair each 1 148000 4299 00 27 13 40.42 31.39 40.44 0.000053 1.25 10766.31 7813.36 0.08 41.39 1.45 18261.81 7829.19 North Main reach 1 146000. 9227.00 27.13 41.38 33.97 0.000085 0.09 36.74 29.88 36.82 0.000171 2.17 975.79 121.31 0.14 North Main 144000 2121.00 27.12 reach 1 North Main reach 1 144000 3193.00 27.12 39.33 30.69 39.42 0.000227 2.43 1314 20 171.46 0.15 North Main 144000 4299.00 27.12 40.27 31.42 40.29 0.000099 1.69 7414.50 7768.88 0.10 North Main 144000 9227 OC 27.12 41.20 34 04 41.22 0.000112 1.88 14727.72 7B15.32 0.11 each 1 2121.00 27.12 36.61 29,88 36.68 0.000177 2.18 972.47 123.60 0.14 North Main neach 1 143293 1309.27 161.06 143293 3193.00 27.12 39.16 30.68 39.25 0.000211 2.44 0.15 reach 1 North Main 40.22 North Main reach 1 4299.QC 27.12 40.21 31.41 0.000072 1.13 9857.59 7742 43 0.08 143233 North Main each t 43233 9227.00 27.12 41.14 34.03 41.14 80000.0 1.18 17174.79 8000.00 0.09 36.67 27.12 0.000177 2.18 971.20 123.76 North Main neach 1 143179 2121.00 36.60 29.88 0.14 39.15 39.24 2.44 1307.36 160.22 0.15 North Main reach 1 143179 3193.00 27.12 30.68 0.00021 1,13 7741.12 4299.00 27.12 40.21 31.42 0.000072 98268 0.08 North Main 143179 reach ' 0.00008 9227.00 27.12 41.13 34.03 41.14 1,22 17132.55 8000.00 0.09 reach 1 143179 North Mair each t 142000 2121.00 27.13 36.35 30.02 36,44 0.000221 2.36 899.80 120.75 0.15 North Main 2.61 1221.69 155.69 North Mair reach 1 142000 3193.00 27.13 38.86 30.86 38.97 0.000253 0.16 2.34 4305.02 3914.41 0.15 39.97 31.63 40.03 0.000195 North Mair mach 1 142000 4299.00 27.13 34.33 41.06 1.22 20172.93 7843.19 0.07 41.06 0.000050 North Main march t 142000 9227.00 27.13 29.55 36.27 0.000202 2.32 914.91 117.24 0.15 141221 2121.00 26.68 36.19 North Main North Main 3193.00 26.68 38.62 30.40 38.71 0.000431 2.35 1357 69 2172.61 0.20 reach 1 141221 4200 00 26 68 39.89 31 17 39.91 0.000113 1.36 6723 09 3992 87 0.10 North Main reach 1 141221 North Main reach 1 9227.00 26.68 41.04 33.89 41.04 0.000027 0.74 25386.10 8000.00 0.05 141221 26.68 36.18 29.55 2.32 913.28 0.15 2121.00 0.000203 141154 North Main reach 1 38.59 3193.00 26,68 30.39 38.68 2.36 1351.29 310.99 0.20 141154 North Main reach 1 1.35 141154 4299.00 26.68 39.88 31.17 39.90 0.000114 6711.24 3992.36 0.10 North Main reach 1 0.000027 28.68 41 04 33.89 41 04 0.73 25371.79 8000.00 0.08 North Main 141154 9227.00 North Main each i 140000 2121,00 26.64 35.94 29.39 36.02 0.000206 2.35 903.83 115.34 0.15 26.64 38.19 38.30 2.62 1587.63 1315.70 0.16 0.000242 3193.00 30.22 North Mais mach 1 140000 3613.29 26.64 39.7 30.99 0.00014 1.93 5337.27 0.12 4299.00 North Main reach 1 140000 22714.07 41.00 41.00 1.03 7882.90 0.06 140000 26.64 33.68 0.000038 reach 1 North Main 1002.24 122.24 138000 2121.00 25.62 35.59 28.39 35.66 0.000158 2.12 0.13 North Main ach 1 142.72 37.76 37.86 1280.13 North Main reach 1 138000 3193.00 25.62 29.22 0.000195 2.49 0.15 39.24 2086.29 2076.45 0.17 39.36 2.72 25.62 29.97 0.000260 North Main reach 1 138000 4299.00 7842.95 25.62 40.90 40.91 0.00006 1.45 17983.23 0.08 32.63 9227.00 North Main reach 1 138000 2160.00 25.62 35.28 28.22 35.35 0.000154 2.10 1028.09 123.81 0.13 North Main 136000 reach 1 3229.00 25 62 37.40 28 99 37.49 0.000173 2.49 1299.06 131.80 0.14 North Main reach 1 138000 North Main reach 1 136000 4321.00 25.62 38.75 29.68 38.89 0.000211 2.92 1481.12 136.91 0.16 7763.30 0.12 25.62 40.71 40.73 0.000123 1.95 12661.75 North Main reach 1 136000 9267.00 32.23 2.10 25.63 35.27 35.34 0.000156 1027.31 125.09 0.13 2160.00 28.27 North Main reach 1 135932 reach 1 135932 3229.00 25.63 37.39 29 04 37.49 0.000173 2.48 1300.68 132.86 0.14 North Main North Mair 4321.00 25 63 38 74 29.75 38 88 0.000211 2.91 1483 88 137.81 0.16 reach 1 ach 1 135932 9267.00 25.63 40.70 32.30 40.73 0.000105 2.08 12845,52 6611.10 0.11 North Main 125.07 0.13 25.63 35.26 28,27 35.33 2160.00 0.00015 135888 North Main reach 1 1299.62 132.84 0.14 3229.00 25.63 37.38 29.04 37.48 0.00017 2.48 135888 North Main reach 1 135886 25.63 38 74 29.75 38 87 0.000211 2.91 1482 60 137.78 0.16 4321.00 North Main reach f 9267.00 25.63 40.69 32.30 40.72 0.000106 2.09 12804 86 6596.99 0.11 reach 1 35888 North Main 0.14 34.92 0.000196 2.27 950.46 123.02 North Main reach 1 134000 2160.00 25.63 28.62 35.00 37.01 37.12 0.000209 2.65 1280.81 0.15 reach 1 25.63 North Mair 134000 3229.00 29.41 1595.77 0.17 25.63 0.000258 2.69 2559.32 30.09 North Main reach 1 134000 4321.00 40.43 8319.82 6021.02 0.16 40.3€ 32.61 0.000237 2.81 North Main reach 1 134000 9267.00 0.15 128.46 132000 2160.00 25 57 34.53 28 21 34.61 0.000200 2.25 959.22 North Main reach 1 138.30 0.15 North Main each 1 132000 3225.00 25.57 36.59 28.98 36.70 0.000213 2.61 1234.37 37.90 0.000261 562.85 0.17 25.57 37,76 3,05 1399.29 North Main ach 1 132000 4273 00 29.67

| River                    | Reach                 | Filver Sta                               | Q Total            | Min Ch El      | W.S. Elev | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl | Flow Area          | Top Width          | Froude # Chl |
|--------------------------|-----------------------|--|--------------------|----------------|-----------|----------------|----------------|------------|----------|--------------------|--------------------|--------------|
| North State              |                       | 1400000                                  | (cfs)              | (ft)           | (ft)      | (ft)           | (ft)           | (ft/ft)    | (N/s)    | (sq ft)            | (ft)               | , králi i    |
| North Main               | reach 1               | 132000.                                  | 9224.00            | 25.57          | 39.18     | 32.22          | 39.63          | 0.000882   | 5.47     | 2054.01            | 2065.01            | 0.32         |
| North Main               | reach 1               | 130750                                   | 2160.00            | 25.57          | 34.24     | 20.22          | 24.00          |            |          |                    |                    |              |
| North Main               | reach 1               | 130750                                   | 3225.00            | 25.57          | 36.29     | 28.23          | 34.33<br>36.41 | 0.000234   | 2.41     | 895.39             |                    | 0.16         |
| North Main               | reach 1               | 130750                                   | 4273.00            | 25.57          | 37.41     | 29.70          | 37.55          | 0.000249   | 2.80     | 1151.40            | 129.56             | 0.17         |
| North Main               | reach 1               | 130750                                   | 9224.00            | 25.57          | 38.03     | 32.31          | 38.48          | 0.001026   | 5.76     | 1878.57<br>2489.87 | 1075.62<br>1708.19 | 0.16         |
|                          |                       |  |                    |                |           |                |                | 0.001020   | 3.70     | 2409.07            | 1700.19            | 0.34         |
| North Main               | reach 1               | 130696                                   | 2160.00            | 25.57          | 34.23     | 28.23          | 34.32          | 0.000236   | 2.42     | 893.80             | 121.21             | 0.16         |
| North Main               | reach 1               | 130696                                   | 3225.00            | 25.57          | 36.27     | 29.02          | 38.39          | 0.000250   | 2.81     | 1149.59            | 129.50             | 0.17         |
| North Main               | reach 1               | 130696                                   | 4273.00            | 25.57          | 37.39     | 29.70          | 37.53          | 0.000320   | 3.07     | 1861.47            | 1058.28            | 0.19         |
| North Main               | reach 1               | 130696                                   | 9224.00            | 25.57          | 37.96     | 32.31          | 38.43          | 0.001073   | 5.86     | 2409.34            | 1641.93            |              |
| 11000                    | 2.4                   | A CONTRACTOR                             |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 129441                                   | 2160.00            | 24.38          | 33,98     | 27.26          | 34.06          | 0.000185   | 2.26     | 956.74             | 118,77             | 0.14         |
| North Main               | reach 1               | 129441                                   | 3225.00            | 24.36          | 36.00     | 28.06          | 36.11          | 0.000209   | 2.68     | 1204.53            | 125.92             | 0.15         |
| North Main               | reach 1               | 129441                                   | 4273.00            | 24.38          | 37.00     | 28.76          | 37.16          | 0.000273   | 3.21     | 1331.79            | 129.45             | 0.18         |
| North Main               | reach 1               | 129441                                   | 9224.00            | 24.38          | 38.05     | 31.39          | 38.06          | 0.000064   | 1.51     | 16364.07           | 5634.29            | 0.09         |
| North Main               | reach 1               | 128185                                   | 2400.00            |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 128185                                   | 2180.00<br>3225.00 | 24.36          | 33.78     | 26.95          | 33.84          | 0.000168   | 2.16     | 1001.86            | 122.65             | 0.13         |
| North Main               | reach 1               | 128185                                   | 4273.00            | 24.36<br>24.36 | 35.76     | 27.71          | 35.86          | 0.000189   | 2.57     | 1253.37            | 129.31             | 0.15         |
| North Main               | reach 1               | 128185                                   | 9224.00            | 24.36          | 38.66     | 28.37          | 36.81          | 0.000335   | 3.11     | 1379.89            |                    | 0.18         |
|                          |                       | 7-0,00                                   | 3424.00            | 24.30          | 37.87     | 30.92          | 37.90          | 0.000184   | 2.22     | 8434.29            | 3959.25            | 0.14         |
| North Make               | reach 1               | 128137                                   | 2160.00            | 24.36          | 33.75     | 26.95          | 33.82          | 0.000167   | 244      | 1000 15            | 400.00             |              |
| North Main               | reach 1               | 128137                                   | 3225.00            | 24.36          | 35.74     | 27.71          | 35.85          | 0.000190   | 2.18     | 1000.15<br>1251.30 | 122.60             | 0.13         |
| North Main               | reach 1               | 128137                                   | 4273.00            | 24.36          | 36.64     | 28.37          | 38.79          | 0.000190   | 3.12     | 1251.30            | 129.26<br>179.63   | 0.15         |
| North Main               | reach 1               | 128137                                   | 9224.00            | 24.36          | 37.85     | 30.92          | 37.89          | 0.000186   | 2.23     | 8395.95            | 3957.47            | 0.19         |
| AN COMP                  | er grant de la        | Ger Ger , et                             |                    |                |           |                | 37.00          | 5.550166   | 4.23     | 0.80.85            | 3937.47            | 0.14         |
| North Main               | reach 1               | 128000.                                  | 2160.00            | 24.36          | 33.72     | 27.04          | 33.80          | 0.000179   | 2.20     | 982.55             | 124.51             | 0.14         |
| North Main               | reach 1               | 128000.                                  | 3225.00            | 24.36          | 35.71     | 27.82          | 35.82          | 0.000232   | 2.60     | 1241.73            | 148.78             | 0.16         |
| North Main               | reach:1               | 128000                                   | 4273.00            | 24.36          | 36.59     | 28.51          | 36.74          | 0.000344   | 3.09     | 1394.58            | 312.48             | 0.19         |
| North Main               | reach 1               | 128000.                                  | 9224.00            | 24.38          | 37.82     | 31.13          | 37.86          | 0.000168   | 2.27     | 8557.73            | 3922.62            | 0.14         |
| 40,893.60                | halifer (films order) |  |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 128275                                   | 2160.00            | 24.02          | 33.43     | 26.85          | 33.50          | 0.000167   | 2.11     | 1024.23            | 132.07             | 0.13         |
| North Main               | rsach 1               | 126275                                   | 3225.00            | 24.02          | 35.37     | 27.63          | 35.46          | 0.000178   | 2.48     | 1590.91            | 1019.10            | 0.14         |
| North Main               | reach 1               | 120275                                   | 4273.00            | 24.02          | 36.17     | 28.30          | 36.26          | 0.000213   | 2.69     | 2887.17            | 2783.58            | 0.15         |
| North Main               | reach 1               | 126275                                   | 9224.00            | 24.02          | 37.35     | 30.79          | 37.46          | 0.000325   | 3.49     | 7347.44            | 4801.57            | 0.19         |
| March Marin              | 1222                  | 400000                                   |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 126253                                   | 2180.00            | 24.02          | 33.42     | 26.84          | 33.49          | 0.000168   | 2.11     | 1022.80            | 132.04             | 0.13         |
| North Main               | reach 1               | 126253                                   | 3225.00<br>4273.00 | 24.02          | 35.37     | 27.63          | 35.46          | 0.000178   | 2.48     | 1589.95            | 1017.99            | 0.14         |
| North Main               | reach 1               | 126253                                   | 9224.00            | 24.02          | 36.16     | 28,30          | 36.26          | 0.000214   | 2.70     | 2873.33            | 2765.19            | 0.16         |
| TWA UT MAIN              | No.                   | 120233                                   | 9224.00            | 24.02          | 37.34     | 30.79          | 37.46          | 0.000328   | 3.51     | 7310.09            | 4591.08            | 0.16         |
| North Main               | reach 1               | 126194                                   | 2180.00            | 24.02          | 33.39     | 27.00          | 33.48          | 0.000214   | 7.00     | 040.04             |                    |              |
| North Main               | reach 1               | 126194                                   | 3225.00            | 24.02          | 35.38     | 27.81          | 35,44          | 0.000214   | 2.36     | 916.91<br>3019.64  | 120.26             | 0.15         |
| North Main               | reach 1               | 126194                                   | 4273.00            | 24.02          | 36.20     | 28.52          | 36.23          | 0.000124   | 1.83     | 6479.58            | 2355.46<br>4664.65 | 0.13         |
| North Main               | reach 1               | 126194                                   | 9224.00            | 24.02          | 37.39     | 31.20          | 37.42          | 0.000135   | 2.07     | 12779.40           | 5885.94            | 0.12         |
|                          |                       | 99 8 - 48 C                              |                    |                |           |                |                |            |          | 12/15.40           | 3000.04            | 0.12         |
| North Main               | reach 1               | 126142                                   | 2160.00            | 24.02          | 33.37     | 27.00          | 33.46          | 0.000215   | 2.36     | 914.69             | 120.18             | 0.15         |
| North Main               | reach 1               | 126142                                   | 3225.00            | 24.02          | 35.37     | 27.81          | 35.44          | 0.000162   | 2.24     | 3007.54            | 2350.07            | 0.13         |
| North Main               | reach 1               | 126142                                   | 4273.00            | 24.02          | 36.20     | 26.52          | 36.23          | 0.000124   | 1.83     | 6474.45            | 4663.17            | 0.12         |
| North Main               | reach 1               | 126142                                   | 9224.00            | 24.02          | 37.38     | 31.20          | 37.41          | 0.000136   | 2.08     | 12726.59           | 5878.94            | 0.12         |
| 1. 47.34                 |                       | 7.18 (2.1.1.2.1                          |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 128000                                   | 2160.00            | 24.02          | 33.36     | 26.73          | 33.43          | 0.000176   | 2.17     | 993.24             | 126.44             | 0.14         |
| North Main               | reach 1               | 128000                                   | 3225.00            | 24.02          | 35.37     | 27.49          | 35.41          | 0.000136   | 1,88     | 3504.57            | 2117.90            | 0.12         |
| North Main               | reach 1               | 128000                                   | 4273.00            | 24.02          | 36.20     | 28.17          | 36,21          | 0.000060   | 1.30     | 8796.50            |                    | 0.08         |
| North Main               | reach 1               | 128000                                   | 9224.00            | 24.02          | 37.37     | 30.72          | 37.39          | 0.000088   | 1.67     | 15211.23           | 6906.66            | 0.10         |
| North Main               | reach 1               | 124278                                   | 2160.00            | 23.63          | 32.99     |                | 00.00          | 0.00000    |          |                    |                    |              |
| North Main               | reach 1               | 124276                                   | 3225.00            | 23.63          | 34.95     | 26.63<br>27.45 | 33,08<br>35.08 | 0.000230   | 2.46     | 878.30<br>1107.45  |                    | 0.16         |
| North Main               | reach 1               | 124276                                   | 4273.00            | 23.63          | 35.83     | 28.17          | 35.99          | 0.000260   | 3.35     | 1697.05            |                    |              |
| North Main               | reach 1               | 124276                                   | 9224.00            | 23.63          | 36.39     | 30.90          | 36.97          | 0.000316   | 6.44     | 2288.74            |                    |              |
| 3.72.739                 | 3 6 200 2 2 2         | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 |                    |                |           |                | 30.41          | 2.031107   | 0.44     | 2200.74            | 34, 9.79           | 0.35         |
| North Main               | reach 1               | 124185                                   | 2160.00            | 23.63          | 32.97     | 26.58          | 33.06          | 0.000225   | 2.44     | 884.61             | 112.62             | 0.15         |
| North Main               | reach 1               | 124185                                   | 3225.00            | 23.63          | 34.92     | 27.40          | 35.05          |            | 2.90     | 1110.76            |                    | 0.17         |
| North Main               | reach 1               | 124185                                   | 4273.00            | 23.63          | 35.86     | 28.11          | 35.95          | 0.000203   | 2.64     | 4051.20            |                    | 0.15         |
| North Main               | reach 1               | 124185                                   | 9224.00            | 23.63          | 38.68     | 30.85          | 36.78          | 0.000380   | 3.41     | 7867.72            |                    |              |
| F 4535                   | 2 Professor 2 Pr      | 45 41 160 41                             |                    |                |           |                |                |            |          |                    |                    |              |
| North Main               | reach 1               | 124085                                   | 2160.00            | 23.63          | 32.95     | 26.61          | 33.05          | 0.000230   | 2.47     | 874.52             | 111.40             | 0.16         |
| North Main               | reach 1               | 124085                                   | 3225.00            | 23.63          | 34.89     | 27.43          | 35.02          | 0.000263   | 2.94     | 1096.59            |                    |              |
| North Main               | reach 1               | 124085                                   | 4273.00            | 23.63          | 35.86     | 28.15          | 35.93          |            | 2.52     | 4370.43            |                    |              |
| North Main               | reach 1               | 124065                                   | 9224.00            | 23.63          | 36.65     | 30.86          | 36.75          | 0.000353   | 3.42     | 8146.59            | 6179.51            | 0.20         |
| Marth Marin              |                       | 104000                                   |                    |                |           |                |                | <u> </u>   |          |                    |                    |              |
| North Main<br>North Main | reach 1               | 124000.<br>124000.                       | 2160.00            | 23.63          | 32.94     | 26,61          | 33.03          | 0.000227   | 2.42     | 890.81             | 116.47             | 0.15         |
| North Main               |                       | 124000.                                  | 3225.00            | 23.63          | 34.90     | 27.43          | 34.99          |            | 2.59     | 2107.24            |                    |              |
| North Main               | reach 1               | 124000.                                  | 4273.00<br>9224.00 | 23.63<br>23.63 | 35.86     | 28.16          | 35.91          | 0.000186   | 2.20     | 4694.59            |                    |              |
| . 1010) (MAII)           | ,000A) I              | 12700.                                   | 9224.00            | 23.63          | 36.63     | 30.87          | 36.71          | 0.000388   | 3.14     | 7950.00            | 6086.50            | 0.20         |
| North Main               | reach 1               | 122908                                   | 2160.00            | 23.63          | 32.69     | 26.51          | 32.78          | 0.000223   | 2.36     | 914.22             | 100 10             |              |
| North Main               | reach 1               | 122908                                   | 3225.00            | 23.63          | 34.61     | 27.31          | 34.73          |            | 2.78     | 1158.53            |                    |              |
| North Main               | reacty 1              | 122908                                   | 4273.00            | 23.63          | 35.45     | 28.00          | 35.63          |            | 3.36     | 1270.44            |                    |              |
| North Main               | reach 1               | 122908                                   | 9224.00            | 23.63          | 36.44     | 30.61          | 36.47          |            | 2.25     | 13336.49           |                    |              |
| CACH CLI MADELL          |                       |  |                    |                |           |                |                |            |          |                    | 3000.44            | V.10         |
| (World) Wildel           |                       |  | 1                  | 1              | ]         | 1              |                |            |          |                    |                    | l            |

Plan: P. 25% (Continued)
River Sta Q Total HEC-DAS Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl River Sta (cfa) (11) (ft) (ft) (fl) (fVft) (ft/s) (sq ft) (ft) North Main each 1 122857 3225.00 23 63 34 60 27.31 34.72 0.000249 2 79 1156.80 1885 42 0.17 Morth Mair anni 1 122857 4273.00 23 63 35 43 28.00 35.6 0.000335 3 37 1268 03 2782 16 0.19 North Main reach 1 122857 9224.00 23.63 36.42 30.61 36.45 0.000138 2.27 13262.13 6892.38 0.13 122.03 0.15 2160.00 23.45 32.50 26.32 32.56 0.000213 2.33 925.58 North Main wach t 122000 North Main 3225.00 23.45 34.39 27.10 34.51 0.000238 2.76 1244.51 584.92 0.16 reach t 122000 35.37 27.77 0.000114 6073.21 4800.98 0.11 North Main 122000 4273.00 23.45 35.4 2.01 9224.00 23.45 36.27 10937.85 6398.09 0.15 North Main reach 1 122000 30.34 36.3 0.000198 2.48 North Main reach 1. 120000. 2160.00 23,41 32.05 26.02 32.14 0.000229 2.38 908.55 122.83 0.15 1139.15 3225.00 33.89 26.80 0.000261 130.71 0.17 North Main neach 1 120000 23.41 34.01 2.83 34.85 35.03 4273.00 23.41 27.47 3.37 1267.33 137.94 0.20 120000 0.000345 North Main reach 1 35.92 2.17 10700.21 5479.48 0.13 North Mair reach 1 120000 23.41 30.05 0.000168 9224.00 35.98 North Main reach 1 118000. 2160.00 23.26 31.58 25.8 31.66 0.000257 2 48 872 31 121 53 0.16 North Mair reach 1 118000 3225.00 23.26 33.32 26.64 33.46 0.000293 2.95 1092.71 128.39 0.18 North Main reach 1 118000. 4273.00 23.26 34.08 27,32 34.28 0.000411 3.59 1190.63 134.52 0.21 35,29 0.000485 4125.37 North Main reach 1 118000. 9224.00 23.26 29.87 35.41 3.66 6286.86 0.23 2.54 25.79 856.81 126.06 0.17 North Main 116000 2180.00 23.27 31.01 31.11 0.000290 each 1 116000 3241.00 23.27 32.70 26,51 32.84 0.000323 3.01 1075.78 132.34 0.19 North Main each: North Main each 1 116000 4459.00 23.27 33.42 27 25 33 51 0.000334 2.87 3773.65 4127.66 0.19 North Main ach 1 116000 9225.00 23.27 34.67 29.58 34.71 0.000243 2.55 9933.90 5800.43 0.16 North Main 956.29 127.40 0.15 114000 2180.00 21.89 30.54 24,55 0.000206 2.28 3989.06 3196.98 0.15 North Main reach t 114000 3241.00 21.89 32.25 25.20 32.32 0.000204 2.26 each 114000 4459 00 21.89 33.10 25.99 33,13 0.000117 1.82 7330.25 5638.25 0.11 North Main ach 1 114000 9225.00 21 89 34 41 28 3 34.43 0.000089 1.72 15279.67 6455.02 0.10 North Mair 128.95 0.16 North Main 113338 21.88 30.39 24.6 30.47 0.000232 2.36 924.72 reach 1 2180.00 1933.92 0.17 North Main 113338 3241.00 21.88 32.02 25.34 32.15 0.000272 2.84 1141.41 reach 1 North Main 21.88 32.78 26.08 32.98 0.000398 3.58 1244.57 5080.87 0.21 reach 1 4459.00 9225.00 21.88 34.37 28.45 34.36 0.000060 1.31 18011.08 7121.93 0.08 North Main each 1 113338 24.55 0.000219 947.76 131.28 30.38 2.30 0.15 North Main reach 1 113284 2180.00 21.88 30.46 2.77 1168.09 1910.25 0.17 32.13 0.000259 North Main reach 1 113284 3241.00 21.88 32.01 25.27 North Main 11328 4459.00 32.7€ 0.000379 3.50 1272.50 5258.20 0.21 reach 1 21.88 26.01 32.95 North Mair 113284 9225.00 21.8 33.62 28.33 34.30 0.00124 6.62 1393.97 6471.77 0.36 reach North Main reach 1 112824 2180.00 22 02 30 17 24.84 30.28 0.000317 2.65 821.13 121.54 0.18 North Main reach 1 112624 3241.00 22.02 31.77 25.63 31.93 0.000368 3.17 1030.88 260.47 0.20 4577.75 North Main reach t 112824 4459 00 22.02 32.57 26.42 32.68 0.000377 3.03 3700.79 0.20 10381.81 0.17 33.72 28.91 33.76 0.000292 2.50 6504.D0 North Main each 1 112624 9225.00 22.02 North Main ach i 112820 Inline Wei North Mair each 1 112804 2180 00 20.05 30.16 22.82 30.23 0.000155 2.12 1029,71 123.64 0.13 349.59 0.15 North Main reach 1 112804 3241.00 20.05 31.76 23 62 31.87 0.000203 2.63 1246,68 24.44 4556.64 0.16 32.56 0.000247 2.69 3929.24 North Main each 1 112604 4459.00 20.05 32.65 33.71 27.00 33.75 0.000243 2.49 10574,19 6476.19 0.16 112604 20.05 North Main each 1 9225.00 North Main each 112000 2180.00 20.06 30.07 22.79 30.1 0.000156 2.12 1026 26 123 76 0.13 North Main reach 1 112000 3241.00 20.06 31,64 23 60 31.74 0.000223 2.62 1378.73 960.36 0.16 North Mair mach 1 112000 4459.00 20.06 32.45 24.40 32.50 0.000198 2.26 5140.93 4730.20 0.14 0.14 0.000183 11683.8 6337.92 North Main reach 1 112000 9225.00 20.06 33,59 26.96 33.62 2.23 North Main 110000. 2536.00 19.82 29.66 22.8 29.7€ 0.00022 2.53 1001.33 121.37 0.16 reach 1 North Main reach 1 110000 3783.00 19.82 31.15 23.73 31.24 0.000262 2.66 2321.17 1108.53 0.17 North Mali reach 1 110000 5288 00 19.82 31 89 24 67 31.99 0.000304 2.95 3215.34 1252.87 0.18 reach 1 7653.07 0.13 North Mair 110000 9904.00 19.82 33.27 27,03 33.29 0.000149 2.08 14170.52 122.87 0.15 2536.00 19.53 29.21 22.46 29.31 2.52 1007.74 North Main reach 1 108000 North Main 3783.00 19.53 30.83 23,35 30.88 0.000138 2.16 5067.97 4879.18 0.12 108000 reach 1 19.53 31.70 24.27 31.72 0.000083 1,71 9417.54 5147.36 0.10 North Mair 5288.00 North Main reach 1 108000 9904.00 19.53 33,12 26.60 33.13 0.000067 1.44 17522.64 6238.21 0.09 0.16 19.53 29.24 2.54 999.32 126.88 107667 29.14 0.000239 North Main reach 1 2536.00 19.53 30.65 30.81 0.000318 3.16 1198.46 137.56 0.19 107667 3783.00 North Mair raach 1 reach t 107667 52B8.00 19.53 31.39 31.64 0.000495 4.07 1309 85 171.46 0.24 North Main 32.33 26.60 33.00 0.001384 6.67 2201.47 4316.84 0.39 107687 19.5 North Main reach 1 each 1 0.000240 2.54 997.20 126.78 0.16 North Main 107600 2536 OC 19.53 29.12 29.22 3.16 1195.33 136.86 0.19 North Main reach 1 107600 3783.00 19.53 30.63 30.78 0.000321 4.08 1303.78 169.15 0.24 31.35 0.000500 North Main reach 1 107600 5288.00 19.53 31.61 32.16 26,60 0.001489 1634.99 2203.75 0.41 19.50 32.90 North Main reach 1 107600 9904.00 0.17 108000 2536,00 19.52 28 71 22 42 28 82 0.000259 2.64 962.14 122.25 North Main reach reach 1 106000 3783.00 19.52 30.01 23.28 30.18 0.000445 3.34 1132.02 151.62 0.22 North Mair 4262.40 5248.28 0.21 0.000452 2.95 North Main reach t 106000 5288 00 19.52 30.70 24.20 30.80 10871.54 8949.86 0.19 0.000357 26.50 31.66 2.82 North Mair reach 1 106000 9904.00 19.52 31.61 18.67 28.19 21.96 28.30 0.000261 2.64 960.26 122.50 0.17 North Main 104000 2536.00 22.83

18.67

3783.00

29.72

29.75

0.000109

1.67

5423 92

2728.63

0.11

North Main

reach 1

HEC\_DAS Plan: P.25% 3 (Continued)
River: Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.O. Slope Vel Chnl Flow Area. Top Width Froude # Chi (cls) (11) (ft) (ft) (ft/ft) (ft/a) (8g ft) (ft) North Main act 1 104000 18.67 30.37 23.74 30.39 0.000109 1.55 7853.96 3671.04 0.11 9904.00 North Main reach 1 104000 18.67 31.16 26.00 31.19 0.000164 2.02 10948 55 4164.67 0.13 North Main 102396 reach 1 2536.00 18.36 27.76 21.42 27.87 0.000272 940.54 2.70 120.12 0.17 North Main 102398 reach 1 3783.00 18.36 29.27 22.32 29.45 0.000356 3.36 1127.11 1663.33 0.20 North Main réach 1 102396 5288.00 18.36 30.06 23.28 30 14 0.000227 2.76 6722.52 10540.27 0.18 North Main each 1 9904.00 18.36 30.90 25.65 30.92 0.000167 2.30 16122.87 11400.00 0.14 North Main reach t 102314 2538 00 18.36 27.74 21.42 27.85 0.000274 2.70 937 76 120.02 0.17 North Main reach 1 102314 3783 00 18.36 29.24 22.32 29.42 0.000360 3.37 1123,24 1648,89 0.20 North Main reach 1 102314 5288.00 18.36 30.04 23.26 30.12 0.000237 2.82 8498.04 10189 24 0.16 North Mair ach 1 102314 9904.00 18.38 30.87 25.65 30,90 0.000174 2.34 15884.65 11400.00 0.14 North Main each t 102000 2536.00 18.36 27.67 21.21 27.77 0.000219 2.47 1025.90 126.77 0.15 North Main each 1 102000 3783.00 18.36 29.25 22.04 29.31 0.000171 2.19 4293.65 3858.49 0.14 5288.00 North Main mach 1 102000 18.36 30.02 22.91 30.05 0.000139 1.90 10003.10 10768.13 0.12 North Main each 1 102000 9904.00 16.36 25.10 30.86 0.000103 1.72 18837.14 10776.20 0.11 North Mai reach 1 100000 2536.00 18,35 27.14 21.29 27.25 0.000304 2.76 917.37 123,02 0.18 North Mair reach t 100000. 3783.00 18.35 28.62 22.15 28.60 0.000390 3.43 1104.45 129,16 0.21 North Main reach 1 100000 5288.00 18.35 29.18 23.06 29.48 0.000753 4.47 1253.28 726.38 0.28 North Main ach 1 100000 9904.00 18.35 30.33 25.35 30,45 0.000528 3.73 8992.16 10724.58 0.24 North Main reach:1 98000 2536.00 17.13 26.64 20.19 26.73 0.000219 2.45 1114.88 692.02 0.15 North Main reach 1 98000 3783.00 17.13 28.14 21.02 28 20 0.000214 2.22 3336.73 1949.67 0.15 North Main each 1 98000 5288.00 17.13 28.64 21.89 28.69 0.000208 2.2B 5308.85 3193.00 0.15 North Main each 1 98000 9904.00 17.13 29.72 24.09 29.76 0.000228 2.53 10240,74 5182.89 0.16 North Mair 97100 reach t 2538 00 16 79 28.44 20.08 26.53 0.000230 2.43 1043.98 161.90 0.16 North Main reach ( 97100 3783.00 16.79 27.88 20.93 27.98 0.000261 2.73 2411.51 2274.99 0.17 North Main reach 1 97100 5288.00 16.79 28.41 21.81 28.48 0.000259 2.61 5080.37 4262.63 0.17 North Main ach 1 97100 9904.00 16.79 29,50 24.02 29.54 0.000252 2.46 11300.51 7074.04 0.18 North Mais reach 1 97053 2538.00 16.79 26.43 20.08 26.52 0.000231 2.43 1042.39 161 68 0.16 North Main reach 1 97052 3783.00 16.79 27.86 20.93 27.97 0.000282 2,74 2377.67 2250.42 0.17 North Mair reach 1 97052 5288.00 18.79 28 40 21.81 28.47 0.000267 2.61 5024.26 4228.98 0.17 North Main reach t 97052 9904.00 16.79 29.49 24.02 29.53 0.000259 2.42 11221.31 7045.55 0.16 North Mair reach 1 98000. 2536.00 16.79 19.81 26.17 26.27 0.000239 2.54 998.13 126,63 0.16 North Main reach 1 90000 3783.00 16.79 27.59 20.65 27,67 0.000296 2.52 3111.77 3102,32 0.17 North Main ach 1 98000 5288.00 16.79 28.32 21.54 28,33 0.000084 1.21 12115.32 7351 11 n ne North Main reach 1 96000 9904.00 16.79 29.41 29.40 23.79 0.000059 1.24 21273.71 9576.00 0.08 North Main reach t P4000. 2536.00 16.80 25.85 19.73 25.89 0 000134 1.88 1767.66 313,73 0.12 North Main reach 1 B4000. 3783.00 18.60 27.17 20.57 27.23 0.000159 2.22 2695.56 1778,22 0.13 North Main reach 1 94000 5288.00 16.80 28.08 3800.98 21.46 28.12 0.000171 2.26 5228.49 0.14 North Main reach 1 94000 9904.00 29,23 23.71 29.25 0.000113 1.74 16392.99 9122.12 0.11 North Main reach 1 92434 2538.00 16.79 25.50 19.51 25.61 0.000260 2.60 976.45 127.54 0.17 North Main 92434 reach 1 3783.00 16.79 26.68 20.32 26.85 0.000373 3.35 1132.90 191.91 0.20 North Main reach 1 92434 5288.00 18.79 27.45 21.18 27.70 0.000504 4.06 2011,54 2081.73 0.24 each 1 92434 9904.00 18.79 28.70 23.37 28.90 0.000548 4.51 6439.68 5027.74 0.25 North Main reach t 92378 2536.00 16.79 25.48 19.51 25.59 0.000262 2.60 974.46 127.48 0 17 North Mair reach 1 92376 3783.00 16 79 26.66 20.33 26.B3 0.000376 3.36 1128.67 181.39 0.20 North Ma reach 1 92376 5288,00 16.79 27.42 21.19 27.67 0.000516 4.10 1937.63 1996.18 0.24 North Mair reach 1 92376 9904.00 16.79 28.64 23.37 28.86 0.000587 6137.17 4.66 4883.15 0.26 North Mair anch 1 92000 2536.00 18.79 25.37 19.53 25.49 0.000284 2.70 939.75 123.39 0.17 North Main reach 1 92000 3783.00 16,79 26.49 20.35 26.68 0.000415 3.50 1088.48 230.60 0.21 North Main reach 1 92000 5288 00 16 79 27.17 21.24 27.45 0.000595 4.36 1721.87 1670.99 0.26 North Mai reach 1 9200G 9904.00 16,79 28.26 23.45 28.57 0.000920 5.31 4760.04 3922.24 0.32 North Main reach 1 91033 2536,00 16.48 25.08 19.61 25.19 0.000339 2.83 895 65 126 17 0.19 North Mai each 1 91033 3783.00 16.48 26.04 20.45 26.24 0.000498 3.66 1255.88 1536.32 0.23 North Main reach 1 91033 5288.00 18.48 26.63 21.34 26.86 0.000596 4.15 2582.24 2791.58 0.25 North Main reach t 91033 9904.00 16.48 27.47 23,57 27.72 0.000807 5.06 5555.45 4293.82 0.30 North Mair reach 1 91030 Inline Weir North Main reach 1 91000 2536.00 14.79 25.06 17.88 25.15 0.000198 1051.48 2.41 125.51 0.15 North Man 91000 3783.00 14.79 mach t 26.03 18.76 26.18 0.000306 1602.02 3.15 2143.70 0.18 North Main reach 1 91000 5288.00 14.79 26,63 19.70 26.79 3512.81 0.000363 3.53 4217.55 0.20 North Mair reach t 91000 9904.00 14.79 27.46 22.09 27.61 0.000451 4.08 B222.37 7000.24 0.23 North Main reach t

90000

90000

90000.

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North Mair

North Mair

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North Main

reach 1

reach 1

reach 1

reach 1

reach 1

2536.00

3783.00

5288.00

9904.00

2536.00

3783.00

5288.00

14.79

14.79

14.79

14.79

14.78

14.78

14.78

24.90

25.89

26.48

27.20

24.58

25.68

26.28

17.62

18.46

19.35

21.62

17 67

18.53

19.43

24.97

25.95

26.53

27.25

24 65

25.71

26.30

0.000147

0.000151

0.000150

0.000281

0.000169

0.000089

0.000086

2.13

2.27

2.33

2.69

2.22

1.69

1.59

1763.43

4337.26

6929.65

11017.16

1881.28

6898.60

10420.65

922.88

3760,10

4954.12

6436.96

1502.81

5169.42

6552.87

0.13

0.13

0.13

0.17

0.14

0.10

HEC DAS Plan D 25% 3 (Continued)
Reach Reach River Sta | Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width | Frouds # Chi Flow Area (cfa) (ft) (ft) (fl/s) (ft) (ft) (ft/ft) (sq ft) (ft) North Main 88000 each t 0.000169 2.04 14125.6 0.13 7760.69 North Main 87169 2536.00 14.78 24.38 17.76 24.48 0.000232 2.54 998.26 1571.32 0.16 North Main mach i 87169 3783.00 14.78 25,38 18 64 25.58 0.000384 3.36 1124.35 5594 28 0.20 North Main reach 1 87169 5288.00 14.78 25.81 19.56 26.12 0.000617 4.49 1178.69 6357.74 0.26 9904.00 North Main reach 1 87169 14.78 26.66 21.88 28.69 0.000151 2.34 14300.64 7873.65 0.13 North Main 87084 2536.00 14.78 24.36 17.77 24.46 0.000234 2.55 995.72 1562.17 0.16 North Main reach 1 87084 3783.00 14.78 25.35 18.64 25.53 0.000368 3.38 5535,67 1120.18 0.20 North Main B7084 19.56 each 1 5288.00 14.78 25.75 26.07 4.51 0.26 North Main each 1 87084 9904.00 14.78 26,64 21.87 0.000155 26.67 2.37 14125.34 7833.97 0.13 North Main reach 1 88000 2536.00 14.31 24.18 17.28 24.24 0.000166 2.18 2027.68 2006.07 0.13 North Main 3783.00 14.31 18.14 reach 1 86000. 25.23 25.27 0.000129 1.86 5326.19 3859.34 0.12 5288.00 14.31 25.66 North Main 86000. 19.06 2.03 4818.58 reach 1 25.69 0.000146 7153.62 0.13 North Main reach 1 86000 9904.00 14.31 26,44 21.33 26.48 0.00019 2.41 11716.62 6811.58 0.15 North Main reach 1 84000 2578 00 13.56 23 82 16 44 23.91 0.000171 2.30 1119.50 127.10 0.14 North Main reach 1 84000. 3822.00 13,56 25.00 17.28 25.03 0.000102 1.90 5056.26 3050.88 0.11 North Main reach 1 84000. 5333.00 13,56 25.40 18.17 25.43 0.000115 1.96 8762.25 9323.48 0.11 13.56 2.06 North Main reach 1 84000. 10123.00 26.11 20.51 26.13 0.000144 15478.55 9605.45 0.12 2576.00 23.47 North Main reach 1 B2000 12.94 15.96 23,56 0.000177 2.36 1093.35 123.29 0.14 North Main 24.75 reach 1 82000 3822.00 12.94 16.84 24.80 0.000135 2.07 5016.31 4317.16 0.12 North Main teach 1 82000 5333.00 12.94 25.05 17.78 25.11 0.000226 2.51 8899.33 10717.01 0.16 North Main reach 1 82000. 10123.00 12.94 25.75 20.19 25.78 0.000226 2.28 14178.09 10798.23 0.15 North Main 81854 23.54 2576.00 12.94 23.47 15.85 0.13 0.00015 2.18 1182.81 136.67 North Main reach t 81854 3822.00 12.94 24.64 16.70 24.76 0.000234 2.84 1346.70 5203.00 0.16 North Main 12.94 17.58 81854 5333.00 25.01 25.08 0.000188 2.59 6976.0 11286.9 0.15 North Main reach 1 81854 10123.00 12.94 25.71 19.89 25.76 0.000179 2.60 14918.39 11348.36 0.14 81817 2576.00 North Main reach 1 12.94 23.46 15.85 23.53 0.000155 2.18 1182.00 136.84 0.13 North Main 3822.00 24.63 16.70 24.76 1345.40 reach 1 81817 12.94 0.0002342.84 5048.37 0.16 North Main 6885.66 11286.60 5333.00 12.94 17.60 25.08 0.000191 2.61 0.15 reach 1 81817 25.00 reach 1 81817 10123.00 12.94 25.70 19.89 25.74 0.000183 2.63 14747.4 11345.57 0.15 North Main North Main each 1 80000 2576.00 12.93 23.12 15.92 23.21 0.000198 2.44 1055.15 122.67 0,15 North Main reach 1 80000 3822 DO 12.93 24 19 16 80 24.31 0.000255 2 87 2874 02 4786.28 0.17 North Main reach 1 80000 5333.00 12.93 24.42 17.72 24.57 0.000420 3.47 4175.32 6493.56 0.21 North Main reach 1 80000. 10123.00 12.93 25.16 20.13 25.26 0.000409 3.55 10868.85 10718.85 0.21 reach 1 78000 2576.00 12.95 16.00 2.60 1074.36 586.67 North Main 22.66 22.76 0.000260 0,17 North Main reach 1 78000. 3822.00 12.95 23,59 16.89 23.70 0.000381 2.86 2753.20 3331.09 0.20 7440.94 12.95 17.84 0.000223 7121.55 0.15 North Main reach 1 78000 5333.00 23.90 23.94 2.19 2.50 North Main 20.29 24.59 10123.00 12.95 24.56 0.000260 12853.10 9307.81 0.16 reach 1 78000 2576.00 12,94 15.84 135.38 North Main reach 1 78000. 22.14 22.25 0.000255 2.63 979.33 0.16 0.000245 5866.77 2.49 4409.54 North Main reach 1 76000 3822.00 12.94 23.01 16.69 23.08 0.16 North Main 78000. 5333.00 12.94 23.27 17.60 23.34 0.000310 2.78 5993.63 6512.10 0.18 reach 1 North Main reach 1 76000. 10123.00 12.94 23.90 19.96 0.00038 10602.97 0.20 North Maio mach 1 74000 2578.00 11.86 21.65 15.00 21.75 0.000245 2 60 994 14 128.50 0.16 North Main reach 1 74000. 3822.00 11.86 22.53 15.90 22.60 0.000238 2.44 4744.61 6866.55 0.16 74000 5333.00 16.85 0.000184 8994.39 9596.74 North Main reach 1 11.86 22.83 22.86 2.20 0.14 North Main 13446.80 19.27 23.33 0.000254 2.65 9607.12 0.17 reach 1 74000. 10123.00 11.86 23.29 North Main reach 1 72000 2576.00 10.58 21.23 13.76 21.31 0.00019 2 29 1127 22 146 38 0.15 North Main reach 1 72000 3822 00 10.58 22.03 14.65 22.11 0.000239 2.46 4295.28 8009 64 0.16 North Main reach 1 72000. 5333.00 10.58 22.41 15.58 22.46 0.000217 2.38 7315.85 B014.13 0.15 10762.50 North Main reach t 72000. 10123.00 10.58 23.05 17.94 23.06 0.00008 1.51 20406.07 0.09 394.04 70000 2576.00 10.48 20.83 13.51 20.92 0.000192 1081.67 0.14 North Main reach t 21.47 21.58 0.000288 2.81 3201.54 4939.75 0.18 North Main reach 1 70000 3822.00 10.48 14.40 21.79 North Main 5333.00 10,48 15.34 21.90 0.000389 3.08 4973 53 6109.18 0.20 reach 1 70000. North Main each 1 70000. 10123.00 10.48 22.74 17.78 22.79 0.000264 2.71 11430.07 6862.81 0.17 3278.80 North Main reach 1 69780 2576.00 10.48 20.80 13.41 20.88 0.000166 2.21 1166.60 0,13 21.35 21.50 0.000303 3.07 1244.22 7103.64 0.18 North Main reach 1 69760 3822.00 10.48 14.25 North Main 5333.00 10.48 21.80 0.000093 8415.91 reach 1 89780 North Main 0.000083 1.72 0.10 reach 1 69760 10123.00 10.48 22.74 22.75 19107.21 8941.59 North Mair reach I 69693 2578 00 10.48 20.79 13.41 20.87 0.000166 2.21 1165.01 3257.49 0.13 North Main reach 1 69693 3822.00 10.48 21.34 14.25 21,49 0.000304 3.08 1242,60 7069.03 0.18 1.75 8402.97 North Mair reach 1 69693 5333.00 10.48 21.79 15.13 21.82 0.000094 10771.21 0.10 1.72 19056.54 8940.28 0.10 69693 10123.00 10.48 22.73 17.46 22.75 0.000083 North Main reach 1 North Main 68373 20.73 20.74 0.000043 1.00 8956.29 7245.63 0.07 reach 1 2850.00 10.48 13.65 North Mair 88373 4215.00 10.48 21.35 14.52 21.36 0.000028 0.85 16010 77 10764 10 0.05 North Mair reach 1 68373 5778.00 10.48 21.73 15.38 21.74 0.000029 0.88 20106.46 10779.93 0.06 North Mair reach 1 68373 11383.00 1D.48 22.66 17.85 22.67 0.000034 1.02 30156,39 10815.47 0.06 North Main 67000 2850.00 10.28 20.61 13.52 20.64 0.000101 1.75 5334.78 6337.62 0.10 reach 1

HEC DAS Plan D 25% 3 (Continued)
River Reach River Q Total Min Ch Fl Crit W.S. E.G. Elev W.S. Elev E.G. Slope Vel Chnf Flow Area Top Width Froude # Chf (ft) (ff) (ft) (fl/ft) North Main each 1 (ff) 67000 4215.00 (fVa) (fi pe) (ft) 10.28 21.27 14.45 North Mair 21.28 reach 1 0.000047 67000 5778 00 10812.77 9384 35 10.28 0.08 21 68 15 30 North Mair reach 1 21.67 0.000066 67000 1.26 14434.16 11383 00 9431.55 10.28 0.08 22.59 18.12 22.60 0.000087 1.31 23260.28 9458.70 North Main 0.08 each 1 66000 2850.00 10.28 20,43 13.68 North Main 20.50 reach 1 0.000185 68000 2.29 3250 77 4215.00 5129.26 10.28 21.19 0 14 14.64 North Ma 21.21 0.000099 reach 1 1.55 66000 5778.00 9117 84 8048.68 10.28 21.58 15.60 0.10 North Main 21.59 0.000095 1.42 66000 8087.50 11383.00 12261.79 10.28 22.52 D.10 18.39 22.53 0.000093 1.45 19855.80 8109.24 0.10 North Main reach t 65430 2850 00 10.28 20 23 13.64 North Mair 20.36 reach 1 65430 0.000299 2 89 986.55 4215.00 4701.56 0.18 10.28 21.13 14.60 North Mair reach t 65490 0.000094 1.69 9587.19 5778.00 10.28 9380.59 0.10 North Main 21.53 15.56 21.54 0.000096 88430 1.51 13511.23 11383.00 10488.61 10.28 22.47 0.10 18.36 22.48 0.000074 1.48 24351 04 11800.00 0.09 reach 1 North Main 65374 2850.00 10.28 20.21 13 64 North Mair 20.34 reach 1 85374 0.000301 2.90 984.38 4215.00 4676 64 10.28 0.1B 21.13 14.60 21.15 North Main reach 1 0.000095 1.71 86374 9531.93 5778.00 10.28 9343.42 0.10 21.52 15.56 North Main 21.54 0.000090 reach 1 65374 1.55 13448.61 11383.00 10469.87 10.28 0.10 22.47 18.38 22.48 0.000074 1 49 24297,30 11800.00 0.09 Month Mair reach 1 64000 2850.00 10.18 19.79 13.29 North Mair reach 64000. 19.91 0.000310 2.73 4215.00 1044.97 148.42 10.18 0.18 20 98 14.18 North Main mach 1 64000 20.99 0.000144 1.85 6391.61 5778 OC 4997.31 10.18 0.12 21.43 15.08 21.44 North Mair mach 1 0.000052 1.15 64000. 16511.52 11383.00 10,18 10391.82 0.07 22.39 17.67 22.39 0.000063 1.23 27215.07 11838.8 0.08 North Mair reach t 62000 2850.00 10.03 19.02 13.20 North Mair 19.15 0.000451 reach 1 2.99 62000 951.67 4215.00 153.11 10.03 20.72 0.21 14.12 0.000106 North Mair reach t 20.74 1.59 62000 5778.00 6920.97 4918.05 10.03 0.10 21 28 15.03 North Main each t 21.30 0.000098 1.59 10147.36 62000. 11383.00 6539.75 10.03 0.10 22.22 17.65 22.23 0.000128 1.93 16966.25 7678.75 0.12 North Main reach 1 60000 2850.00 9.59 18.13 12.76 18.29 North Main 0.000414 reach 1 80000 3.20 889 53 4215.00 119.96 9.59 0.21 20.24 13.65 North Mair 20.37 reach 1 0.000402 80000 3.08 2883.60 5778.00 4504.72 9.59 20.94 0.20 North Mai each 1 21 00 0.000253 2.49 60000 11383.00 7537.57 8621.92 0.16 9.59 21.90 17.17 21.93 0.000187 2.26 16551.31 10162,23 0.14 North Mair reach 1 58000 2850 00 9.33 17.00 North Main 12.78 17.22 58000 0.000700 746.18 reach 1 3 82 115.66 4215.00 9.33 19.07 0.26 13.69 19.35 North Mair 0.000848 reach 1 58000 5778.00 4.24 993,40 123.38 9.33 0.28 20.66 14.58 North Mair 20 68 0.000108 ach 1 58000 1.79 12478 28 10820.70 11383.00 9.33 0.11 21.69 17.26 0.000076 21.69 1.43 23866.50 11221.57 0.09 North Main reach 1 57448 2850.00 9.38 16.58 12.75 North Main reach 1 18.81 0.000826 57448 3.96 719.14 4215.00 9.38 120 17 0.29 18.69 13.65 18.97 North Main reach t 0.000707 4.28 57448 985.49 5778.00 9.38 130,08 0.27 20,41 14.54 20.56 North Main 0.000399 reach 1 57448 3.55 4285.61 11383.00 9.38 5116.78 0.21 21.55 17.14 21.62 0.000286 3.18 12316.79 9004.55 0.18 North Main reach 1 57404 2850.00 9.38 16.52 12.74 North Main 16.77 0.000844 reach 1 3.99 57404 4215,00 9.38 714.18 119.98 0.29 18 66 13.65 North Mai reach 1 18.94 0.000717 4.30 57404 5778.00 9.38 981.01 129.92 0.28 20.39 14.54 20.54 North Mair ach 1 0.000414 3.61 57404 4153.63 11383.00 5015.88 9.38 0.21 21.53 17.14 21.60 0.000294 3.22 12151.08 8941.29 0.18 North Main reach 1 58867 2850,00 9 80 16.13 12.52 North Main 16 33 0.000744 reach 1 56867 3.63 785 B4 4215.00 139.19 9.80 18.36 13.30 0.27 North Mair 18.58 0.000574 reach 1 149.59 56887 3.81 5778.00 1107.44 9.80 19 98 14.08 0.25 North Main 20.26 0.000598 reach 1 4.26 58887 11383.00 9.80 1356.97 158.80 0.26 21.20 16.40 21.38 0.000567 4.26 6119.38 2968.23 0.25 North Main reach 1 Inline Wei North Mair each 1 56857 2850.00 7.31 16,12 10.12 North Main 18 23 0.000266 reach 1 2.64 56857 4215.00 7.31 1080.77 141 52 0.17 18 35 10.94 18.49 North Mair 0.000265 2.99 56857 1407.54 5778.00 7.31 151.42 0.17 19.97 11.75 20.16 North Main 56857 0.000307 3.48 reach \$ 1659.43 11383.00 158.65 0.19 7.31 21.19 14.15 21.36 0.000377 4.06 6395.32 2937.28 0.21 North Main reach 1 56000 2850.00 6.74 15.92 9.56 16.01 0.000222 North Main 2.49 reach 1 58000 1143 18 141.65 4215.00 0.15 6.74 18.15 10.34 North Mair 18.27 0.000228 2.87 reach 1 56000 5778.00 1485.83 231.26 8.74 19.75 0,18 11.16 19.91 North Main 0.000254 each 1 3.27 58000 11383.00 6.74 2038.02 394.65 0.17 21.01 13.51 21.09 0.000227 3.05 8290.17 2773.46 0.16 North Main reach 1 54000 2850.00 6.00 15.53 North Main 8.77 15.61 0.000182 reach 1 54000 2.31 1232.74 4215.00 147.02 6.00 0.14 17.71 9.54 17.83 North Mair 0.000216 reach 1 54000 2.69 1565.86 5778.00 167.92 6.00 19.23 0.16 10.31 19,38 0.00028 North Main 3.15 reach 1 54000 11383.00 1834.16 190.71 6.00 0.18 20.69 12.63 20.73 0.000137 2.36 12389.47 4557.34 0.13 North Main reach 1 52276 2856.00 5.83 15.21 8.51 15.29 0.000188 North Main reach 1 2.31 52276 1235,29 151.41 4210.00 5.83 0.14 17.34 9.28 17.45 0.000220 North Main reach 1 52275 2.67 1577.64 175.42 5767.00 5.83 0.16 18.71 10.07 18.86 0.000315 North Main reach 1 52275 10840.00 3.14 1837 81 210.07 5.83 0.19 20.41 12.19 20.46 0.000185 2.53 13839 80 10331.81 0.15 North Mair reach: 1 51585 2856.00 5.69 15.03 8.64 15.14 North Mair 0.000257 reach 1 1074.91 51585 4210.00 134,91 0.17 17.13 9.48 17.28 North Main reach 1 0.000273 3.08 51585 1368.10 143.42 5767 00 5.69 0.18 18.40 10.35 18.62 0.000393 1561.59 North Main reach 1 3 69 51585 162.67 10840.00 5.69 0.21 20.28 12.67 20.35 0.000202 2.96 12785.31 9108.39 0.15 North Main reach 1 51510 2856.00 5.69 15.01 8.64 15.12 North Mair 0.000256 2.66 51519 1072.53 134 83 4210.00 0.17 5.69 17.11 9.48 17.26 0.000274 3.08 1365,43 143.37

Plan: P 25% 3.(Cantinued) Réach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chini Flow Area Top Width Froude # Chi (ft ps) (cls) **(ft) (ft)** (ft) (R) (ft/ft) (fVs) (ft) North Main reach 1 51519 5767.00 5.69 18.38 10.35 18.59 0.000397 North Main 51519 10840.00 20,26 12.67 0.000206 12647.11 each 5.69 20.34 2.98 9052.08 0.16 North Main reach 1 50000. 2856.00 5.58 14.65 8.38 14.74 0.000232 2.49 1147.87 148.56 0.16 16,68 9.17 16.81 North Main reach 1 50000. 4210.00 5.58 0.000313 2.84 1484.62 197.83 0.16 North Ma 5.58 18.15 9,97 50000 5767.00 18.20 0.000152 2.18 4678.79 1427.95 0.13 50000 10840.00 5.58 20,16 12.16 20.18 0.000056 18759.63 5872.55 0.08 1.48 North Main 4800C 2856.00 4 89 14.22 7.67 14.30 0.000209 2.32 182.74 1229.68 D. 15 North Main reach 1 48000. 4210.00 4.89 16,12 8.43 16.23 0.000264 2.67 1579.35 202.53 0.17 North Main reach 1 48000 5767 00 4 89 17 84 9.21 17.90 0.000145 2 19 4013 72 921 21 0.13 11.30 North Main reach 1 48000. 10840.00 4.89 20.02 20.05 0.000077 1.80 18749.13 8867.87 0.10 2856.00 4.94 13.99 7.9 14.1 0.000290 139.14 North Mair reach 1 47232 2.73 1046.93 0.18 15,84 8.83 16.00 North Mair reach 47232 4210.00 0.000327 3.21 1313.13 149,78 0.19 North Main 47232 5767.00 4.94 17.49 9 67 17 70 0.000402 3.66 1574 81 171.27 0.21 reach North Main reach 1 47232 10840.00 4.94 19.93 11.98 19.97 0.000141 2.27 13461.90 6173.60 0.13 7.76 13.66 13.77 175.62 North Main each i 46000 2856.00 4.90 0.000261 2.58 1182.24 0.17 North Main 46000. 15.49 8.56 reach 1 4210.00 4.90 15.62 0.000273 2.94 1754.78 601.93 0.17 5767.00 17.19 9.39 17.30 0.000226 B11,70 North Mair 4800G 4.90 2.91 3010.68 0.16 4600G. 10840.00 4.90 19.83 11.64 19.85 0.000066 18693.98 7787,86 0.09 1.66 13.14 0.000260 147.26 North Main reach 1 44000 2856.00 4.68 7.3 13.24 2.58 1107.34 0.17 15.05 154.07 North Main reach 1 44000 4210.00 4.68 14.90 8.08 0.000295 3.07 1372.30 0.18 North Main 4.68 16.52 8.85 16.71 180.39 0.21 reach 1 44000 5767.00 0.000381 3.53 1635.65 North Main 44000. reach 1 10840.00 19.46 10.97 19.59 5551.00 2003.75 0.18 North Main ach t 43141 2856 00 4.65 12.92 7.27 13 02 0.000267 2 57 1110 48 151 77 0 17 North Main reach 1 43141 4210.00 4.68 14.64 8.01 14.79 0.000301 3.05 1379.05 158.81 0.18 16.21 8.77 0.000340 325,71 North Main reach 1 43141 5767.00 4.68 16.40 3.53 1663.06 0.20 North Main 4.68 10.83 6259.89 43141 10840.00 19.40 19.44 0.000140 2.26 12661.30 0.13 North Main reach t 42941 2856.00 4.24 12.88 7.07 12.97 0.00023E 2 40 1190 73 166 05 0.16 North Mair 42041 4210 00 4 24 14 60 7.80 14 72 0.000265 2 84 1483 38 174 31 0 17 North Main reach 1 42941 5767.00 4.24 15,16 8.54 16.33 0.000295 3.27 1785.67 319.84 0.18 North Main reach 1 42941 10840.00 4.24 19.35 10.57 19.41 0,000261 2.47 9813.11 6199.40 0.17 North Main Inline Weir 42938 reach 1 North Main reach 1 42932 2856.00 3 60 12 88 6.09 12.94 0.000146 2.04 1397.61 172.39 0.13 North Mair reach 1 42932 4210 00 3 60 14 59 8.79 14.69 0.000175 2.48 1699.24 179.03 0.14 North Main reach 1 42932 5767.00 3.60 16.15 7.51 16,28 0.000206 2.91 2008.33 308.83 0.16 0.000228 6147.82 North Main reach 1 42932 10840.00 3.60 19.34 9.48 19.40 2.51 9726,34 0.16 2856.00 3.60 12.84 5.57 12.88 0.000081 1.58 1833.45 217.52 0.09 North Mair 42366 reach 1 4210.00 3.60 14.55 6.14 14.60 0.000098 1.91 2209.10 223.52 0.11 North Main reach 1 North Main 42366 5767.00 3.60 16.10 6.73 16 18 0.000116 2 25 2560 23 227.36 0.12 reach 1 North Main each 1 42366 10840,00 3.60 19.27 8.36 19.34 0.000109 2.47 10068.80 5540.16 0.12 42313 2856.00 5.57 12.87 0.000081 1.56 1831.34 217.48 0.09 North Main 3.60 12.83 reach 1 4210,00 3.60 14.54 6.14 14,59 0.000098 1.91 2206.46 223.47 0.11 North Main reach 1 42313 16.09 6.73 16.17 0.000116 2.26 2557.07 227.33 0.12 North Main 42313 5767.00 3.60 North Main reach 1 42313 10840.00 3,60 19.26 8.35 19.34 0.000109 2.48 10035.17 5522.97 0.12 2856.00 1.49 1910.48 223.31 0.09 North Main reach 1 42000. 3.60 12.81 5.49 12.85 0.000073 6.04 14.56 0.000090 1.83 2294.32 229.28 0.10 14.51 North Main reach 1 42000. 4210.00 3.60 North Main 42000 5767.00 3.60 16.0€ 0.000107 2654.13 234.75 0.11 reach 1 North Main 10840.00 B. 15 19.30 0.000125 2.66 8687.14 6421.69 0.13 42000. 3.60 19.20 reach 1 0.000070 1.47 1943.61 225.86 0.09 North Main reach 1 40000 2856.00 3,15 12.67 5.14 12.70 1.81 2323.21 231.32 0.10 4210.00 14.38 0.000086 North Main reach 1 40000. 3.15 14.32 5.70 2.15 2678.72 235.94 0.11 15.85 15.92 0.000104 5767.00 6.28 North Main reach t 40000 3.15 2692.45 0.15 10840.00 3.15 18.85 7.86 18.99 0.000170 3.13 4391.19 North Main 40000 ech 1 38000 2856.00 3.14 12.52 5.06 12.55 0.000071 1.48 1934.94 225.46 0.09 North Mair reach 1 reach 1 North Main 38000 4210.00 3.14 14.14 5.61 14,19 0.000089 1.83 2306.06 232.02 0.10 2656.48 237.23 0.11 0.000108 2.17 North Main reach 1 38000 5767.00 3.14 15.63 6.19 15.71 246.27 0.16 7.76 18.64 0.000188 3.24 3343.06 North Main reach 1 38000. 10840.00 3.14 18.47 36000 3.15 12.35 5.10 12.39 0.000080 1.55 1837.77 217 08 0.09 North Main reach 1 North Main 4210.00 3.15 13.94 5.67 14.00 0.000101 1 93 2185.84 222.65 0.11 36000 North Main reach 1 36000 5767.00 3,15 15.39 6.25 15.47 0.000124 2.30 2511.85 227.82 0.12 North Main reach 1 36000 10840.00 3,15 18.04 7.85 18.23 0.000223 3.46 3129.20 237.31 0.17 220.20 0.10 12.23 0.00009 1.61 1771.1 3.16 12.19 5.20 North Main 34000. 2856.00 reach 1 0.000115 13.78 1.99 2112.58 227.11 0.12 34000 4210.00 3.16 13.72 5.78 North Main reach 1 34000 5767.00 3.16 15.12 6.38 15.20 0.000139 2.37 2433.88 231.83 0.13 North Mair reach 1 North Mair 34000 10840.00 3.16 17,54 8.01 17.75 0.000256 3.61 3006.62 240.13 0.18 1726.14 218.58 0.10 0.000097 1.65 North Main reach 1 32548 2856.00 3.16 12.05 5.27 12.09 221.48 0.000123 2.05 0.12 3.16 32548 4210.D0 13.54 5,87 North Main reach 1 0.000150 2.45 2356.64 225.98 0.13 6,46 14.99 North Mair 32548 5767.00 14.90 reach 1

| HEC_DAS<br>Fliver        | Plan: D 25%<br>Reach                       | 3 (Contin     | Q Total            | Min Ch El    | W.S. Elev  | Crit W.S.    | E.G. Elev      | E.G. Slope                            | Vel Chnl    | Flow Area          | Top Width        | Froude # Chl   |
|--------------------------|--|---------------|--------------------|--------------|--|--------------|----------------|---------------------------------------|-------------|--------------------|------------------|----------------|
|                          | 11.15 12.40                                |               | (cfs)              | (ft)         | (ft)   | (ft)         | (ft)           | (ft/ft)                               | (ft/s)      | (eq ft)            | (ft)             | 2 5680 30 LV 3 |
| North Main               | reach 1                                    | 32548         | 10840.00           | 3.16         | 17.13  | 8.09         | 17.35          | 0.000289                              | 3.78        | 2888.09            | 233.36           | 0,19           |
| Marth Abele              |  |               |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main<br>North Main | reach 1                                    | 32504         | 2858.00            | 3.16         | 12.05  | 5.27         | 12.09          | 0.000097                              | 1.66        | 1725.20            | 216.55           |                |
| North Main               | reach 1                                    |               | 4210.00            | 3.16         | 13.54  | 5.87         | 13.60          | 0.000123                              | 2.05        | 2051.07            | 221.46           |                |
| North Main               | reach 1                                    | 32504         | 5767.00            | 3.16         | 14.89  | 6.46         | 14.99          | 0.000150                              | 2.45        | 2355.12            | 225.96           |                |
| NOTUS MILITI             | reach/1                                    | 32504         | 10840.00           | 3.16         | 17.11  | 8.09         | 17.34          | 0.000290                              | 3.78        | 2864.99            | 233.32           | 0.19           |
| North Main               | reach 1                                    | 32000.        | 2856.00            | 3.16         | 12.00  | 5.16         | 12.04          | 0.000089                              | 1.59        | 1792,44            | 221.24           | 0.10           |
| North Main               | reach 1                                    | 32000.        | 4210.00            | 3.16         | 13.48  | 5.72         | 13,54          | 0.000113                              | 1.98        | 2122.93            | 228.56           | 0.11           |
| North Main               | reach 1                                    | 32000.        | 5767.00            | 3.16         | 14.83  | 6.29         | 14.91          | 0.000140                              | 2.37        | 2431.27            | 231.41           | 0.13           |
| North Main               | reach 1                                    | 32000.        | 10840.00           | 3.16         | 16.97  | 7.85         | 17.18          | 0.000304                              | 3.67        | 2953.08            | 260.94           | 0.19           |
| in the South Process     | e si dan bibli basiya g                    | 8 2 2 2 2 2 2 |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 30000.        | 2856.00            | 2.92         | 11.83  | 4.85         | 11.87          | 0.000081                              | 1.55        | 1845.03            | 222.78           | 0.09           |
| North Main               | reach t                                    | 30000.        | 4210.00            | 2.92         | 13.26  | 5.41         | 13.32          | 0.000107                              | 1.94        | 2165.81            | 227.21           | 0.11           |
| North Main               | reach 1                                    | 30000.        | 5767.00            | 2.92         | 14.55  | 5.97         | 14.64          | 0.000134                              | 2.34        | 2482.07            | 231.23           | 0.13           |
| North Main               | reach to                                   | 30000         | 10840.00           | 2.92         | 16.43  | 7.53         | 16.61          | 0.000259                              | 3.56        | 4400.49            | 2825.21          | 0.18           |
| . Personal               | Brusse Williams                            |               |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 29585         | 3102.00            | 2.90         | 11.78  | 5.02         | 11.83          | 0.000108                              | 1.76        | 1759.30            | 216.39           | 0.11           |
| North Main               | reach 1                                    | 29585         | 4262.00            | 2.90         | 13.20  | 5.5 <b>1</b> | 13.27          | 0.000123                              | 2.08        | 2070.65            | 221.65           | 0.12           |
| North Main               | reach t                                    | 29585         | 5805.00            | 2.90         | 14.48  | 6.09         | 14.58          | 0.000153                              | 2.48        | 2357.05            | 226.38           | 0.13           |
| North Main               | reach 1                                    | 29585         | 10731.00           | 2.90         | 18.28  | 7.53         | 16,49          | 0.000320                              | 3.88        | 2764.14            | 4872.47          | 0.20           |
| North Main               | reach 1                                    | 29523         | 3102.00            | 2.90         | 11.78  | 5.02         | 11.82          | 0.000108                              | 1.76        | 1757.82            | 046.07           |                |
| North Main               | reach 1                                    | 29523         | 4262.00            | 2.90         | 13.20  | 5.02         | 13.28          |                                       | 2,08        | 2068.93            | 216.37           |                |
| North Main               | reach 1                                    | 29523         | 5805.00            | 2.90         | 14.47  | 6.09         | 14,57          | 0.000123                              | 2.47        | 2068.93            | 221.62<br>226.35 |                |
| North Main               | reach 1                                    | 29523         | 10731.00           | 2.90         | 16.24  | 7.64         | 18.47          | 0.000133                              | 3.89        | 2759.28            | 4667.86          |                |
|                          |  |               | 3.2                |              |  | ,,,,,,,      | 10.47          | 5.000321                              | 3.09        | 2133.20            | 4001.00          | 0.20           |
| North Main               | reach 1                                    | 28000.        | 3102.00            | 2.90         | 11.61  | 5.03         | 11.66          | 0.000109                              | 1.75        | 1773.74            | 223.04           | 0.11           |
| North Main               | reach 1                                    | 28000.        | 4262.00            | 2.90         | 13.01  | 5.52         | 13.08          |                                       | 2.04        | 2088.87            | 227.50           |                |
| North Main               | reach 1                                    | 28000.        | 5805.00            | 2.90         | 14.24  | 6.09         | 14.33          |                                       | 2.45        | 2371.23            | 231.42           |                |
| North Main               | reach 1                                    | 28000.        | 10731.00           | 2.90         | 15.98  | 7.52         | 16.07          |                                       | 2.88        | 8056.15            | 3646.90          |                |
| 1.5                      | and the second                             | . y (5 ) (4   |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 26000         | 3102.00            | 2.90         | 11.37  | 5.04         | 11.42          |                                       | 1,83        | 1691.15            | 219.82           | 0.12           |
| North Main               | reach 1                                    | 26000.        | 4262.00            | 2.90         | 12.74  | 5.53         | 12.81          | 0.000141                              | 2.14        | 1995.44            | 225.09           | 0.13           |
| North Main               | reach 1                                    | 26000.        | 5805.00            | 2.90         | 13.93  | 6.11         | 14.02          |                                       | 2.47        | 2756.88            | 685.89           |                |
| North Main               | reach 1                                    | 28000.        | 10731.00           | 2.90         | 15,48  | 7.67         | 15.61          | 0.000309                              | 3.34        | 6031,40            | 4592.12          | 0.19           |
| North Main               | reach 1                                    | 24000         | 3102.00            | 2.90         | 11.11  | 4.93         | 11.16          | 0.000126                              | 1 92        | 1608.00            | 700 05           |                |
| North Main               | reach 1                                    | 24000.        | 4262.00            | 2.90         | 12.45  | 5.40         | 12.51          | 0.000128                              | 1.83        | 1698.92            | 222.65           |                |
| North Main               | reach 1                                    | 24000.        | 5805.00            | 2.90         | 13.63  | 5.95         | 13.70          |                                       | 2.18        | 2432.95<br>4242.62 | 1099.24          |                |
| North Main               | reach 1                                    | 24000         | 10731.00           | 2.90         | 15.40  | 7.45         | 15.41          | 0.000034                              | 1.12        | 23300.99           |                  |                |
| min Same in              | 10 0 may 42 m                              |               |                    |              |  |              | -              |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 22000.        | 3102.00            | 2.90         | 10,84  | 4.92         | 10.89          | 0.000137                              | 1.87        | 1858.08            | 222.69           | 0.12           |
| North Main               | reach 1                                    | 22000.        | 4262.00            | 2.90         | 12,14  | 5.38         | 12.21          | 0.000154                              | 2.19        | 1956.72            | 238.65           | 0.13           |
| North Main               | reach 1                                    | 22000         | 5805.00            | 2.90         | 13.25  | 5.92         | 13.35          | 0.000194                              | 2.63        | 2237.11            | 316.52           | 0.15           |
| North Main               | reach 1                                    | 22000.        | 10731.00           | 2,90         | 15.02  | 7.41         | 15.23          | 0.000345                              | 3.86        | 3674.17            | 1384.99          | 0.20           |
|                          | 7 7 10 10 10 10 10 10 10 10 10 10 10 10 10 |               |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 20000.        | 3102.00<br>4262.00 | 2.23         | 10.56  | 4.53         | 10.61          | 0.000144                              | 1.93        | 1609.98            | 215,15           |                |
| North Main               | reach 1                                    | 20000.        | 5805.00            | 2.23         | 11.81  | 5.01<br>5.58 | 11.89          |                                       | 2.26        | 1883.24            | 219.94           |                |
| North Main               | reach 1                                    | 20000.        | 10731.00           | 2.23         | 12.82  | 7.12         | 12.94<br>14.40 |                                       |             | 2107.98            | 223.81           |                |
| 14Orth Minnt             | TORAL I                                    | 2000          | 10/31.00           | 2.23         | 14.09  | 7.12         | 14.40          | 0.000302                              | 4.48        | 2393.31            | 228.62           | 0.24           |
| North Main               | reach 1                                    | 19889         | 3102.00            | 2.23         | 10.54  | 4.62         | 10.60          | 0.000157                              | 1,99        | 1561.04            | 212.53           | 0.13           |
| North Main               | reach 1                                    | 19889         | 4262.00            | 2.23         | 11.79  | 5.13         | 11.88          |                                       | 2.33        | 1830.67            | 217.78           |                |
| North Main               | reach 1                                    | 19889         | 5805.00            | 2.23         | 12.80  | 5.71         | 12.92          |                                       | 2.83        | 2051.80            | <u> </u>         | <del>,</del>   |
| North Main               | reach 1                                    | 19889         | 10731.00           | 2.23         | 14.01  | 7.29         | 14.34          | 0.000545                              | 4.62        |                    | 425.41           |                |
| 10,111                   | and the complete to be                     |               |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 19835         | 3102.00            |              | 10.53  |              |                |                                       | 1.99        | 1559.19            | 212.49           | 0.13           |
| North Main               | reach 1                                    | 19835         | 4262.00            |              | -  |              |                |                                       | 2.33        | 1828.47            | 217.74           | 0.14           |
| North Main               | reach 1                                    | 19835         | 5805.00            |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 19835         | 10731.00           | 2.23         | 13.98  | 7.29         | 14.31          | 0.000550                              | 4.63        | 2338.14            | 413.50           | 0.25           |
| March Marin              |  | 48000         | 3102.00            | 2.22         | 10.23  | 4.50         | 40.00          |                                       |             | 1507.40            |                  |                |
| North Main               | reach 1                                    | 18000.        | 4262.00            |              |  |              |                |                                       |             | 1527.43            |                  | <del></del>    |
| North Main               | reach 1                                    | 18000.        | 5805.00            |              |  |              |                |                                       |             | 1785.44            |                  |                |
| North Main               | reach 1                                    | 18000.        | 10731.00           |              |  |              | 13.24          |                                       |             | 2250.35<br>4409.70 |                  |                |
| 1,                       | 131 Nov. 4                                 |               |                    |              |  |              |                | -                                     |             | 1                  | -                |                |
| North Main               | reach 1                                    | 18000.        | 3102.00            | 2.22         | 9.87   | 4.30         | 9.93           | 0.000182                              | 2.09        | 1482.66            | 208.46           | B 0.14         |
| North Main               | reach 1                                    | 18000.        | 4262.00            |              |  | 4.79         |                | · · · · · · · · · · · · · · · · · · · |             | 1724.28            |                  |                |
| North Main               | reach 1                                    | 16000.        | 5805.00            | 2.22         | 12.18  | 5.37         | 12.20          | 0.000063                              |             |                    |                  |                |
| North Main               | reach 1                                    | 10000         | 10731.00           | 2.22         | 12.70  | 6.93         | 12.72          | 0.000115                              |             |                    |                  |                |
|                          | 1. 2. 2. 2. 2. 2.                          | 1             |                    |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 3102.00            |              |  |              |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 4262.00            |              | <u> </u>   |              |                | <del></del>                           |             |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 5805.00            | <del></del>  | +  | <del></del>  | <del></del>    |                                       | +           |                    |                  |                |
| North Main               | reach 1                                    | 14000.        | 10731.00           | 2.03         | 12.46  | 6.63         | 12.48          | 0.000125                              | 1.99        | 14819,79           | 6924.5           | 2 0.12         |
|                          | 1.0.1                                      |               |                    |              |  | -            | ļ              | <del></del>                           | -           |                    |                  |                |
| North Main               | reach 1                                    | 12000         | 3102.00            |              |  | +            |                |                                       |             |                    |                  |                |
| North Main               | reach 1                                    | 12000.        | 4262.00            |              |  | <del></del>  |                |                                       | <del></del> |                    |                  | +              |
| North Main               | reach 1                                    | 12000.        | 5805.00            |              |  |              |                |                                       |             |                    |                  | _              |
| North Main               | reach 1                                    | 12000.        | 10731.00           | 1.79         | 12.37  | 6.57         | 12.3           | 0.000028                              | 0.90        | 33767.20           | 13721.0          | 3 0.06         |
| Marth 41                 | paget 4                                    | *****         | 0011.00            | <del> </del> | <del>                                     </del> | <del> </del> | ļ              |                                       |             | 10:0               | ,                |                |
| North Main               | reach 1                                    | 10000.        | 3241.00            | 1.80         | 8.58   | 3.99         | 8.6            | 0.000295                              | 2.46        | 1316.90            | 209.9            | 2 0.17         |

| River      | Reach   | Fliver Sta | Q Total  | Min Oh El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area | Top Width | Froude # Chi  |
|------------|---------|------------|----------|-----------|-----------|-----------|-----------|------------|----------|-----------|-----------|---------------|
|            |         |            | (cfs)    | (E)       | (ft)      | (ft)      | (ft)      | (R/ft)     | (ft/s)   | (sq ft)   | (ft)      | \$15 kg 2 400 |
| North Main | reach f | 10000.     | 4357.00  | 1.80      | 9.46      | 4.45      | 9.59      | 0.000352   | 2.90     | 1503.88   | 213.74    | 0.19          |
| North Main | reach 1 | 10000.     | 5816.00  | 1.80      | 10.45     | 4.99      | 10.63     | 0.000467   | 3.37     | 1724.56   | 240.80    | 0.22          |
| North Main | reach 1 | 10000.     | 10743.00 | 1.80      | 11.75     | 6.53      | 12.17     | 0.000995   | 5.23     | 2055.32   | 262.01    | 0.33          |
| North Main | reach 1 | 8000.      | 3291.00  | 1.73      | 7.80      | 3.99      | 7.93      | 0.000470   | 2.89     | 1138.93   | 202.36    | 0.21          |
| North Main | reach 1 | # B000     | 4457.00  | 1.73      | 8.50      | 4.48      | 8.69      | 0.000593   | 3.48     | 1281.11   | 204.75    | 0.25          |
| North Main | reach 1 | 8000.      | 5868.00  | 1.73      | 9.20      | 5.01      | 9.48      | 0.000734   | 4.12     | 1425.21   | 207.20    | 0.28          |
| North Main | reach 1 | 8000       | 10712.00 | 1.73      | 11.00     | 11.00     | 11.07     | 0.000296   | 2.99     | 10500.96  | 6877.30   | 0.18          |
| North Main | reach 1 | 8000.      | 3291.00  | 1.77      | 6.86      | 3.68      | 6.97      | 0.000486   | 2.66     | 1307.17   | 296.77    | 0.21          |
| North Main | reach 1 | 6000.      | 4457.00  | 1.77      | 7.23      | 4.11      | 7.40      | 0.000699   | 3.34     | 1416.89   | 301.04    | 0.26          |
| North Main | reach 1 | 6000.      | 5888.00  | 1.77      | 7.43      | 4.58      | 7.69      | 0.001072   | 4.23     | 1475.75   | 303.30    | 0.32          |
| North Main | reach 1 | 8000.      | 10712.00 | 1.77      | 7.66      | 5.88      | 8.47      | 0.003095   | 7.37     | 1547.89   | 306,07    | 0.55          |
| North Main | reach 1 | 4066       | 3291.00  | 1.84      | 5.80      | 3.41      | 5.90      | 0.000621   | 2.52     | 1303.51   | 352.71    | 0.23          |
| North Main | reach 1 | 4058       | 4457.00  | 1.84      | 6.15      | 3.74      | 6.22      | 0.000511   | 2.42     | 4852.86   | 16473.96  | 0.21          |
| North Main | reach 1 | 4058       | 5868.00  | 1.84      | 6.37      | 4.10      | 6.41      | 0.000408   | 2.24     | 8558.91   | 16860,40  | 0.19          |
| North Main | reach 1 | 4056       | 10712.00 | 1.84      | 8.85      | 5.15      | 6.87      | 0.000301   | 2.08     | 16955.58  | 17800.96  | 0.17          |
| North Main | reach 1 | 4024       | 3291.00  | 1.84      | 5.79      | 3,41      | 5.89      | 0.000629   | 2.53     | 1298.54   | 352.64    | 0.23          |
| North Main | reach 1 | 4024       | 4457.00  | 1.84      | 6.13      | 3.74      | 6.21      | 0.000531   | 2.47     | 4656.88   | 16453.51  | 0.22          |
| North Main | reach 1 | 4024       | 5868.00  | 1.84      | 6.36      | 4.10      | 6.41      | 0.000421   | 2.27     | 8399.91   | 16844.12  | 0.19          |
| North Main | reach 1 | 4024       | 10712.00 | 1.84      | 6.85      | 5.14      | 6.87      | 0.000301   | 2.06     | 16955.58  | 17800.96  | 0.17          |
| North Main | reach:1 | 2000.      | 3575.00  | 1,72      | 4.16      | 2.81      | 4.25      | 0.001056   | 2.41     | 1484.15   | 642.56    | 0.28          |
| North Main | reach 1 | 2000.      | 4920.00  | 1,72      | 4.43      | 3.05      | 4.56      | 0.001398   | 2.97     | 1654.04   | 644.18    | 0.33          |
| North Main | reach t | 2000.      | 6522.00  | 1,72      | 4.68      | 3.32      | 4,88      | 0.001803   | 3.59     | 1816.57   | 645.72    | 0.38          |
| North Main | reach 1 | 2000.      | 10850.00 | 1.72      | 5.13      | 3.91      | 5.54      | 0.003049   | 5.14     | 2109.80   | 648.49    | 0.50          |
| - <b>1</b> |         |            |          |           |           |           |           |            |          |           |           |               |
| North Main | reach 1 | 0.         | 3575.00  | 1.41      | 3.59      | 1.98      | 3,60      | 0.000155   | 0.77     | 6745.72   | 7371.77   | 0.10          |
| North Main | reach 1 | 0.         | 4920.00  | 1.41      | 3.85      | 2.12      | 3,85      | 0.000155   | 0.84     | 8654.40   | 7646.04   | 0.10          |
| North Main | reach 1 | 0.         | 6522.00  | 1,41      | 4.10      | 2.26      | 4.11      | 0.000155   | 0.90     | 10901.75  | 10307.77  | 0.11          |
| North Main | reach 1 | 0.         | 10850.00 | 1.41      | 4.62      | 2.63      | 4.63      | 0.000155   | 1.03     | 16375.00  | 10712.36  | 0.11          |

## **HEC-RAS MODEL**

PROPOSED CONDITIONS 50% DIVERSION

HEC-RAS Plan: P 50% D

| HEC-RAS Plan:  |                                 | T  | T                  |                |                |                |                |            |              |                   |                |              |
|--|---------------------------------|--|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-------------------|----------------|--------------|
| River  | Reach                           | River Sta  | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chni     | Flow Area         | Top Width      | Froude # Chi |
| 14 14 15 11  |                                 |  | (cfs)              | (ft)           | (ft)           | (ft)           | (n):           | (nvn)      | (ft/s)       | (sq ft)           | (ft)           | Magna and A  |
| La Sal Vioja<br>La Sal Vioja   | Reach 1                         | 15060  | 923.00<br>1531.00  | 24.30          | 31.85<br>34.44 | 26.73          | 31.92          | 0.000356   | 2.22         | 415.85            | 70,19          | 0.16         |
|  | Reach 1                         |  | -                  | 24.30          |                | 27.65          | 34.54          | 0.000329   | 2.50         | 611.54            | 80.57          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15060  | 2121.00            | 24.30          | 36.53          | 28.41          | 36.64          | 0.000311   | 2.69         | 788.49            | 88.93          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15060  | 1107.00            | 24,30          | 39.26          | 27.03          | 39.28          | 0.000039   | 1.06         | 1046.47           | 99.86          | 0.00         |
| 11.7,110.1,111.1   | 01110                           |  | 000 00             | 24.20          |                |                | 24.00          | 0.000057   |              | 445.40            | 70.47          |              |
| La Sal Vieja   | Reach 1                         | 15050  | 923.00             | 24.30          | 31.84          | 26.73          | 31.92          | 0.000357   | 2.22         | 415.48            | 70.17          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15050<br>15050   | 1531.00            | 24.30          | 34.44          | 27.65          | 34.54          | 0.000329   | 2.51         | 611.18            | 80.58          | 0.16         |
| La Sal Vieja   | Reach 1                         | the state of the s | 2121.00            | 24.30          | 36.53          | 28,41          | 36.64          | 0.000311   | 2.69         | 788.14            | 88.91          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15050  | 1107.00            | 24.30          | 39.26          | 27.03          | 39.28          | 0.000039   | 1.06         | 1048.43           | 99.86          | 0.00         |
|  |                                 | 2-2-2  |                    |                |                |                |                | 0.00000    |              |                   |                |              |
| La Sal Vieja   | Reach 1                         | 15010  | 923.00             | 24.30<br>24.30 | 31.84          | 29.73          | 31.91          | 0.000358   | 2.22         | 415.11            | 70.15          | 0.16         |
| La Sal Vieja   | Reach 1                         | 15010  | 1531.00            |                | 34.43          | 27.65          | 34.53          | 0.000330   | 2.51         | 610.82            | 80.54          | 0.16         |
| La Sal Vieja<br>La Sal Vieja   | Reach 1                         | 15010  | 2121.00            | 24.30          | 36.52          | 28.41          | 36.64          | 0.000311   | 2.69         | 787.78            | 88.89          | 0.16         |
| La Sai Vieja   | Reach 1                         | 15010  | 1107.00            | 24,30          | 39.26          | 27.03          | 39.28          | 0.000039   | 1.06         | 1046.39           | 99.86          | 0.00         |
| La Sal Vieja   | Reach 1                         | 15000  | 923.00             | 24 20          | 31.83          |                | 31.91          | 0.000358   | 2.23         | 414.75            | 70.47          |              |
|  |                                 | 15000  | 1531.00            | 24.30<br>24.30 | 34.43          |                | 34.53          | 0.000331   | 2.23         | 610.46            | 70.13<br>80.52 | 0.16         |
| La Sal Vieja   | Reach 1                         | 15000  | 2121.00            | 24.30          | 36.52          |                | 36.63          | 0.000331   | 2.51         | 787.42            | 88.88          | 0.16         |
| La Sal Vieja   | Reach 1                         |  |                    |                |                |                |                |            |              |                   |                | 0.16         |
| La Sal Vieja   | Reach 1                         | 15000  | 1107.00            | 24.30          | 39.26          |                | 39.28          | 0.000039   | 1.06         | 1046.35           | 99.85          | D.06         |
|  |                                 | E LIVER DE LA COMP   |                    |                |                |                |                | 0.00000    |              | 100 57            | 7000           |              |
| La Sal Vieja   | Reach 1                         | 12500  | 923.00             | 23.30          | 30.96          |                | 31.03          | 0.000338   | 2.18         | 423.57            | 70.63          | 0.16         |
| La Sal Vieja   | Reach f                         | 12500  | 1531.00            | 23.30          | 33.63          |                | 33.72          | 0.000307   | 2.44         | 626.72            | 81.32          | 0.16         |
| La Sal Vieja   | Reech 1                         | 12500  | 2121.00<br>1107.00 | 23.30          | 35,77          |                | 35.87          | 0.000289   | 2.62<br>0.97 | 809.56<br>1140.05 | 89.87          | 0.15         |
| Le Sal Vieja   | Reach 1                         | 12500  | 1107.00            | 23.30          | 39.18          |                | 39.20          | 0,000031   | 0.97         | 1140.05           | 103.54         | 0.05         |
| I o Cal \mathred   | Don't d                         | OGEA .   | 003.00             | 22.16          | 20.00          |                | 20.40          | 0.000302   | 245          | 440.04            | 74.54          |              |
| La Sal Vieja   | Reach 1                         | 9850   | 923.00<br>1531.00  | 22.16          | 30.05<br>32.81 |                | 30.12<br>32.90 | 0.000302   | 2.10         | 440.24<br>652.95  | 71.57          | 0.15         |
| La Sal Vieja   | Reach 1                         | 9650   | 2121.00            | 22.16          |                |                |                |            |              |                   | 82.61          | 0.15         |
| La Sal Vieja   | Reach 1                         | 9650<br>9650   | 1107.00            | 22.16          | 35.00<br>39.12 |                | 35.09<br>39.13 | 0.000258   | 2.52<br>0.88 | 842.97<br>1253.60 | 91.35          | 0.15         |
| La Sal Vieja   | Reach 1                         | <b>3000</b>  | 1107.00            | 22.16          | 39.12          |                | 39.13          | 0.000024   | 0.68         | 1253.60           | 107.84         | 0.08         |
| La Sal Vieja   | Reach 1                         | 7500   | 923.00             | 21.30          | 29.44          |                | 29.50          | 0.000270   | 2.01         | 458.24            | 72.57          | 0.14         |
| La Sal Vieja   | Reach 1                         | 7500   | 1531.00            | 21.30          | 32.26          |                | 32.34          | 0.000270   | 2.01         | 458.24<br>678.46  | 83.83          | 0.14         |
| The second secon | Reach                           | 7500   | 2121.00            | 21.30          | 34.47          |                | 34.56          | 0.000246   | 2.43         | 873.94            | 92.69          | 0.14         |
| La Sal Vieja<br>La Sal Vieja   | Reach 1                         | 7500   | 1107.00            | 21.30          | 39.07          |                | 39.08          | 0.000020   | 0.82         | 1342.54           | 111.09         | 0.04         |
| ra sa vieta  | r(bach 1                        | 7500   | 1707.00            | 21.30          | 39.07          |                | 39.00          | 0.000020   | 0.02         | 1342.34           | 171.09         | 0.04         |
| La Sal Vieja   | Reach 1                         | 4100   | 923.00             | 19,94          | 28.64          |                | 28.69          | 0.000212   | 1.85         | 499.35            | 74.80          | 0.13         |
|  | Reach 1                         | 4100   | 1531.00            | 19,94          | 31.51          |                | 31.58          | 0.000212   | 2.09         | 730.84            | 86.29          |              |
| La Sal Vieja   | Reach 1                         | 4100   | 2121.00            | 19.94          | 33.76          |                | 33.84          | 0.000200   | 2.09         | 934.61            | 95.27          | 0.13         |
| La Sal Vieja   | the second second second second | 4100   | 1107.00            | 19.94          | 39.03          |                | 39.03          | 0.000194   | 0.74         | 1491.88           | 116.34         | 0.13         |
| La Sal Vieja   | Reach 1                         | ¥100   | 1107.00            | 19.94          | 39.03          |                | 39.03          | 0.000015   | 0.74         | 1491.00           | 110.34         | 0.04         |
| La Sal Vieja   | Reach 1                         | 1000   | 923.00             | 18.70          | 28.08          | 21.13          | 28.12          | 0.000160   | 1.67         | 551.10            | 77.52          | 0.11         |
| La Sal Vieja   | Reach 1                         | 1000   | 1531.00            | 18.70          | 30.97          | 22.05          | 31.03          | 0.000160   | 1.93         | 791.73            | 89.07          | 0.11         |
| La Sal Vieja   | Reach 1                         | 1000   | 2121.00            | 18.70          | 33.22          | 22.81          | 33.29          | 0.000160   | 2.12         | 1002.52           | 98.08          | 0.12         |
| La Sal Vieja   | Reach 1                         | 1000   | 1107.00            | 18.70          | 39.00          | 21.43          | 39.00          | 0.000006   | 0.55         | 4567.38           | 1082.00        | 0.02         |
| La Gai Vioja   | ALTO LA TALL                    | 1000   | 1101.00            | 10.70          | 03.00          | 21.40          | 00.00          | 0.00000    | - 0.50       | 4557.50           | 1002.00        | 5.02         |
| raymondville   | Reach 8                         | 296300   | 629.00             | 70.00          | 77.60          |                | 77.67          | 0.000461   | 2.19         | 287.09            | 60.58          | 0.18         |
| raymondville   | Reach 8                         | 296300   | 1287.00            | 70.00          | 80.30          |                | 80.35          | 0.000278   | 2.03         | 1625.49           | 3000.00        | 0.16         |
| raymondville   | Reach 8                         | 296300   | 2370.00            | 70.00          | 82.66          |                | 82.66          | 0.000017   | 0,61         | 8705.56           | 3000.00        | 0.04         |
| raymondville   | Reach 8                         | 296300   | 6583.00            | 70.00          | 86.09          |                | 86.09          | 0.000011   | 0.60         | 19003.37          | 3000.00        | 0.03         |
| ,  | 2724,97139713782                | A AGE S  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 295300   | 629.00             | 69.54          | 77.14          |                | 77.21          | 0.000461   | 2.19         | 287.05            | 60.58          | 0.18         |
| raymondville   | Reach 8                         | 295300   | 1287.00            | 69.54          | 79.96          |                | 80.04          | 0.000351   | 2.30         | 1051.72           | 1878.68        | 0.18         |
| raymondville   | Reach 8                         | 295300   | 2370.00            | 69.54          | 82.64          |                | 82.65          | 0.000015   | 0.58         | 9055.57           | 3000.00        | 0.04         |
| raymondville   | Reach 8                         | 295300   | 6583.00            | 69.54          | 86.08          |                | 86.08          |            |              |                   | 3000.00        | 0.03         |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1   | Cuttawes Cv. 19                 |  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 293500   | 629.00             | 68.71          | 76.32          | 71.77          | 76.39          | 0.000458   | 2.19         | 287.73            | 60.65          | 0.18         |
| raymondville   | Reach 8                         | 293500   | 1287.00            | 68.71          | 79.20          | 73.22          | 79.31          | 0.000464   | 2.64         | 487.54            | 77.95          | 0.19         |
| raymondville   | Reach 8                         | 293500   | 2370.00            | 68.71          | 82.41          | 74.90          | 82.56          | 0.000465   | 3.08         | 768.35            | 97.19          | 0.19         |
| raymondville   | Reach 8                         | 293500   | 6583.00            | 68.71          | 86.03          | 78.94          | 86.04          | 0.000088   | 1.61         | 9256.79           | 3000.00        | 0.09         |
|  |                                 | This will be   |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 291800   | 629.00             | 87.93          | 75.54          | 70.99          | 75.61          | 0.000458   | 2.19         | 287.73            | 60.64          | 0.18         |
| raymondviše  | Reach 8                         | 291800   | 1287.00            |                | 78.41          | 72.44          | 78.52          | 0.000465   | 2.64         | 486.93            | 77.90          | 0.19         |
| raymondville   | Reach 8                         | 291800   | 2370.00            | 67.93          | 81.62          | 74.12          | 81.77          | 0.000466   | 3.09         | 767.52            | 97.14          | 0.19         |
| raymondville   | Resch 8                         | 291800   | 6583.00            | 67.93          | 85.89          | 78.16          | 85.91          | 0.000067   | 1.41         | 9200.27           | 3000.00        | 0.08         |
|  |                                 | 44,0000  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 289400   | 629.00             | 66.82          | 74.44          | 69.88          | 74.51          | 0.000455   | 2.18         | 288.53            | 60.72          | 0.18         |
| raymondville   | Reach 8                         | 289400   | 1287.00            | 66.82          | 77,30          | 71.33          | 77.41          | 0.000465   | 2.64         | 486.93            |                | 0.19         |
| raymondville   | Reach 8                         | 289400   | 2370.00            | 66.82          | 80.51          | 73.01          | 80.66          |            |              | 767.52            |                | 0.19         |
| raymondville   | Reach 8                         | 289400   | 6583.00            | 66,82          | 85.75          | 77.05          | 85.76          | 0.000054   | 1.32         | 9693.57           | 3000.00        | 0.0          |
|  |                                 |  |                    |                |                |                |                |            |              |                   |                |              |
| raymondville   | Reach 8                         | 287000   | 629.00             | 65.72          | 73.35          |                | 73.43          | 0.000451   | 2.17         | 289.34            | 60.80          | 0.1          |
| raymondville   | Reach 8                         | 287000   | 1287.00            | 65.72          | 76.18          |                | 76.29          | 0.000470   | 2.65         | 485.14            | 77.76          | 0.1          |
| raymondville   | Reach 8                         | 287000   | 2370.00            |                | 79.39          |                | 79.53          | 0.000470   |              |                   | 96.99          | 0.19         |
| raymondville   | Reach 8                         | 287000   | 6583.00            | 65.72          | 85.08          |                | 85.41          | 0.000701   | 4.65         | 1415.00           | 140.57         | 0.2          |
|  | 1                               | 230 17 300 100   |                    |                |                |                |                |            |              |                   |                |              |
|  | Reach 8                         | 285100   | 629.00             | 64.84          | 72.50          | 67.90          | 72.58          | 0.000444   | 2.16         | 291.21            | 60.99          | 0.1          |
| raymondville   |                                 |  |                    |                |                |                |                | 0.000470   |              | 1                 |                | 0.4          |
| raymondville<br>raymondville   | Reach 8                         | 285100   | 1287.00            | 64.84          | 75.28          | 69.35          | 75.39          | 0.000473   | 2.66         | 483.84            | 77.66          | 0.1          |
|  |                                 | 285100<br>285100   | 1287.00<br>2370.00 |                |                | 69.35<br>71.03 |                |            |              |                   |                |              |

HEC-PAS Plan- P 50% D (Continued)
River Reach RiverSta ( Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Vel Chni Flow Area E.G. Slope Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (fl/ff) (ft/s) (sq ff) (ft) raymondville Reach 8 283500 629.00 64.11 71.79 67.17 71.86 0.000439 2.15 292.33 61.10 0.17 raymondville Reach B 283500 1287.00 64.11 74.52 68.62 74.63 0.000481 2.67 481.17 77.45 0.19 rzymondville Reach 8 283500 2370.00 64.11 77.73 70.30 77.88 0.000477 3.12 760.81 95.72 0.20 raymondville Reach 8 283500 6583.00 64.11 B2.21 74.35 82.61 0.000910 5.10 1514.02 1562.61 0.29 raymondville Reach 8 281800 629.00 63,33 71.06 71.13 0.000428 2.13 295.07 61.37 0.17 raymondville 281800 1287.00 63.33 73,69 73.80 0.000490 2.70 477.52 77.17 0.19 raymondville Reach 8 281800 2370.00 63.33 76.91 77.06 0.000483 3.13 757,16 96.49 0.20 raymondville Reach 8 281800 6583.00 63.33 81.99 82.02 0.000133 2.06 7761.97 3000.00 0.12 raymondville Reach 8 279700 656.00 62.36 70.12 70.19 0.000458 2.21 296.80 61.54 0.18 raymondville Reach & 279700 1240.00 62.36 72.70 72.81 0.000459 2.60 476.21 77.07 0.18 raymondville 279700 2315.00 62.36 75.93 76 07 0.000484 3.06 755.69 96.40 0.19 raymondville 279700 6197.00 62.36 81.67 81.72 0.000164 2.31 5405.04 1733.32 0.13 Reach 8 275500 656.00 60.43 68,18 68.26 0.000460 2.21 296.42 61.50 0.18 raymondville Reach 8 275500 1240.00 60.43 70.78 70.88 0.000458 2.60 476.38 77.08 0.18 Reach 8 275500 2315.00 73.97 60.43 74.12 0.000467 3.07 753.39 96.26 0.19 raymondville Reach 8 275500 6197.00 60.43 80.27 80.55 0.000551 4.19 1481.88 155.90 0.22 raymondville Reach 8 273500 656.00 59.51 67.26 67.34 0.000460 2.21 296.49 61.51 0.18 raymondville Reach 8 273500 1240.00 59.51 69.86 89.97 0.000457 2.60 476.76 77.11 0.18 raymondville Reach 8 273500 2315.00 59.51 73.04 73.18 0.000470 3.08 751 89 96.15 0.19 raymondville Reach 8 273500 6197.00 59.51 79.13 79.41 0.000583 4.28 1448 89 132.71 0.23 raymondville Reach 8 272300 656.00 58.96 66.71 66.79 0.000460 2.21 298.40 61.50 0.18 raymondville Reach 8 272300 1240.00 58.96 69.31 69.42 0.000457 2.60 476 89 77.12 0.18 raymondville Reach A 272300 2315.00 58.96 72.47 72.62 0.000473 3.09 750.12 96.05 0.19 raymondville Reach 8 272300 6197.00 58.96 78.40 78.70 0.000608 4.35 1425.84 131.66 0.23 raymondville Reach & 270300 656.00 58.04 65.79 61.17 65.87 0.000460 2.21 296.40 61.50 0.16 raymondville Reach 8 270300 1240.00 58.04 68.39 62.46 68.50 0.000457 2.60 476.B9 77.12 0.18 raymondville Reach 8 270300 2315.00 58.04 71.53 64.17 71.67 0.000477 3.10 747.89 95.91 0.20 raymondville Reach 8 270300 6197.00 58.04 77.57 67.98 77.73 0.000365 3.48 2781.61 2078.27 0.19 raymondville Reach 8 268100 57.02 656.00 64.78 50.15 64.86 0.000457 2.21 297 14 61 57 0.18 raymondville Reach 8 268100 57.02 1240.00 67.39 61.44 67.50 0.000453 2.59 478.40 77.24 0.18 raymondville Reach 8 266100 2315.00 57.02 70.47 63.15 70.62 0.000482 3.11 744.46 95.70 0.20 raymondville Reach 8 268100 6197.00 57.02 76.39 66.96 76.69 0.000820 4.38 1415.92 131,21 0.23 raymondville Reach 8 266400 656.00 56.24 64.00 59.37 64.08 0.000457 2.21 297.14 61 57 0.18 56.24 raymondville Reach 8 266400 1240.00 66.62 60.66 66.73 0.000451 2.59 479.10 77.29 D.18 raymondville Reach 8 286400 2315.00 56.24 69.64 62.37 69.79 0.000491 3.13 739.75 95 40 0.20 raymondville Reach 8 266400 6197.00 56.24 75.90 66.18 76.00 0.000246 2.90 3718.53 2869.75 0.16 raymondville Reach 8 264100 656.00 55.18 62.96 58.31 63.03 0.000453 2.20 298.D1 61.65 0.18 raymondville Reach 6 264100 1240.00 55.18 65.59 59.60 65.69 0.000446 2.58 481.39 77.47 0.18 raymondville Reach 8 264100 2315.00 55.18 68,49 61.31 68.65 0.000506 3.17 731.26 94 87 0.20 raymondville Reach 8 264100 6197.00 55.18 75.04 65.12 75.24 0.000431 3.77 2591.51 3000.00 0.21 raymondville Reach 8 262450 656.00 54.42 62.21 57.55 62.29 0.000449 2.19 299.00 61.75 0.18 raymondville Reach & 282450 1240 00 54.42 64.86 58.84 64.96 0.000440 2.56 483.78 77.66 0.15 raymondville Reach 8 262450 2315.00 54.42 67.64 60.55 67.80 0.000523 722.48 3.20 94.31 0.20 raymondvilla Reach 6 262450 6197.00 54.42 74.14 64.36 74.42 0.000568 4.24 1462.67 133.33 0.23 Reach 8 260550 raymondville 770 00 53.56 61 34 61.43 0.000456 2.28 337.48 66.71 0.18 260550 raymondville Reach 8 1434.00 53.56 64.00 64.12 0.000452 2.67 538.18 82.67 0.19 raymondville Reach 8 260550 2395 00 53.56 66.72 66 87 0.000455 3.06 783.21 98.99 0.19 raymondville 260550 Reach B 6408.00 53.56 73.10 73.37 0.000535 4.17 1538.44 137.25 0.22 raymondville 259250 Reach 8 770.00 52.96 60.76 60 R4 0.000453 2.27 338.49 66.80 0.18 raymondville Reach 8 259250 1434.00 52.96 63.43 63,54 0.000448 2.67 537.99 82.80 0.18 raymondville Reach 8 259250 2395 00 52.96 58.14 66.29 0.000452 3.05 784.93 99.09 0.19 raymondville Reach 8 259250 6408.00 52.96 72.40 72.67 0.000548 4.21 1522.23 135.62 0.22 258000 raymondville Reach 8 770.00 52.39 60.20 60.28 0.000451 2.27 338.87 66.83 0.18 Reach 8 raymondville 258000 1434.00 52.39 62.87 62.98 0.000446 2.66 539.00 82.87 0.18 Reach 8 258000 raymondville 2395.00 52.39 65.58 65 72 0.000451 3.05 785.53 99.13 0.19 raymondville Reach 8 258000 6408.00 52.39 71.69 71.98 0.000566 4.26 1504.10 135.83 0.23 raymondville Reach 8 255800 51.37 59.21 770.00 59.28 0.000444 2.26 340.88 67.01 0.18 raymondville Reach 6 255800 1434.00 2.64 51.37 61.90 62 01 0.000437 543.21 83.18 0.18 raymondville Reach 8 255800 2395.00 51.37 64.58 64.73 0.000447 3.04 788.03 99.28 0.19 255800 raymondville Reach 8 6408.00 51.37 70.39 70.69 0.000607 4.37 1465.64 134.12 0.23 raymondville Reach 8 252200 57.65 49.72 770.00 57.73 0.000421 2.22 347.52 67.60 0.17

raymondville

raymondville

Reach 8

Reach 8

252200

252200

49.72

49.72

60.37

52.99

60.48

63.13

0.000415

0.000439

2.59

3.02

553.36

793 83

83.91

99.63

0.18

1434.00

HEC-RAS Plan. P 50% D (Continued) Q Total Reach River Sta Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chl (cfs) (sq ft) (fi) (ft) (ft) raymondville Reach 8 252200 6408 00 49 72 67.93 68 27 0.000743 472 1358 53 129 24 0.26 raymondville Reach 8 250350 770 00 48 87 56 89 56 97 0.000402 2.18 353 68 68 15 0.17 raymondville Reach 8 250350 1434.00 48.87 59.62 59.72 0.000399 2.55 561.74 84.50 0.17 raymondville Reach 8 250350 2395.00 48 87 62.19 62.33 0.000432 3.00 798.44 99.91 0.19 250350 6408.00 48.87 66.37 0.000893 5.05 1268.30 124.98 0.28 raymondville Reach 8 66.76 Reach 8 248900 770.00 48.20 56.33 56.40 0.000380 2.13 360.92 68.79 0.16 raymondville Reach 8 248900 1434.00 48.20 59.06 59.16 0.000382 2.51 570.83 85.15 0.17 raymondville Reach 8 248900 2395.00 48.20 61 57 61.71 0.000424 2.98 803.58 100.22 0.19 6408.00 48.20 64.83 1162.86 119.82 0.31 raymondville Reach 8 248900 65.31 0.001127 5.51 raymondville Reach B 245400 770.00 46 59 55.15 49.63 55.21 0.000307 1.97 390 69 71 33 0.15 raymondville 245400 1434,00 46.59 57.83 50,93 57.91 0.000329 2.38 603.47 87.41 0.16 Reach B Reach 8 245400 raymondville 2395.00 46.59 60,14 52.32 60.27 0.000395 2.90 911.63 758.35 0.18 raymondville Reach 8 245400 6408.00 46.59 64.17 56.09 0.000123 1.93 6405.04 1616.34 0.11 64.19 Reach 8 242800 770 QO 45.39 54.45 48 43 54.50 0.000241 1 80 427 34 74 35 0.13 raymondville Reach 8 242800 1434.00 45 39 57.05 49.73 57.12 0.000280 2.24 640 70 89,93 0.15 Reach B 242800 2395.00 45.39 59.15 51.12 59.27 0.000373 2.84 842.91 102.54 0.17 raymondville raymondville Reach 8 242800 6408.00 45.39 63.82 54.90 63.85 0.000138 2.06 6027.32 1567.96 0.11 raymondville Reach R 240200 831.00 44 20 53.86 53 91 0.000212 1 75 473 53 77 99 0.13 Reach B 240200 1497.00 44.20 56.36 56.43 0.000253 2.18 686.66 92.95 0.14 raymondyille raymondville Beach R 240200 2298 00 44 20 58 2R 58 38 0.000310 2.62 875 98 104.46 0.16 Reach 6 240200 5757.00 44.20 62.98 63.23 0.000519 4.02 1433,72 132.68 0.22 raymondville raymondville 42.22 53.20 1.43 Reach 8 235900 831.00 53.23 0.000122 581.01 85.86 0.10 raymondville Reach 8 235900 1497.00 42.22 55.48 55.54 0.000172 1.89 793.13 99.59 0.12 raymondville Reach 8 235900 2298 00 42 22 57 13 57.21 0.000239 2 38 964.63 109.43 0.14 raymondville Reach 8 235900 5757.00 42.22 60.88 61.09 0.000475 3.83 2032.83 933.67 0.21 233900 831.00 0.000027 1918.23 673.88 raymondville Reach 8 41.30 53.12 53.12 0.77 0.05 raymondville Reach 8 233900 1497,00 41.30 55,43 55.44 0.000019 0.76 3817.40 1021,34 0.04 raymondville 5897.06 1485.85 Reach 8 233900 2298.00 41.30 57.09 57.10 0.000019 0.83 0.04 raymondville Reach 8 233900 5757.00 41.30 60.93 60.93 0.000017 0.96 13632.63 2516.23 0.04 raymondville Reach 8 231612 B31.00 40.87 52.92 52.98 0.000248 2.02 410.78 58.20 0.13 raymondvilla 658 87 Reach B 231612 1497 00 40.87 55 31 55 34 0.000140 181 1532.76 0.11 231612 2298 00 40.87 56 99 57.01 0.000092 1.64 2776.09 816.19 0.09 raymondville Reach B 231612 5757.00 40.87 60.84 60.88 0.000065 1.69 7624.78 2095,21 0.08 raymondvilla Reach 8 2276B4 831.00 40.09 51.92 51.99 0.000258 2.05 405.05 57.90 0.14 raymondville Reach 8 227684 1497 00 40.09 54 41 54 52 0.000341 2 64 624.80 260.35 0.16 raymondville Reach 8 227684 2298.00 40.09 56.35 56.43 0.000268 2.61 1376.72 499.89 0.15 2057.54 raymondville Reach 8 227684 5757.00 40.09 60.39 60.45 0.000184 2.72 4560.16 0.13 raymondville 387.01 56.53 Reach 8 225004 831.00 39.55 51,18 51.26 0.000291 2.15 0.14 raymondville Reach 8 225004 1497.00 39.55 53.37 53.49 0.000429 2.88 519.93 65.26 0.18 raymondville 0.000561 3.55 648.00 72.69 Reach 8 225004 2298.00 39.55 55.22 55.42 0.21 raymondville 0.000330 3578,83 1339,66 0.17 Reach 8 225004 5757.00 39.55 59.68 59.80 3.47 222418 831.00 39.03 51.03 51.03 0.000034 0.65 2176.38 925.74 0.05 raymondville Reach 6 4572.37 1152,72 0.04 39.03 53.34 0.000016 0.69 raymondville Reach 8 222418 1497.00 53.34 6999.62 raymondville 1615.09 0.04 Reach 8 222418 2298.00 39,03 55.25 55.25 0.000015 0.73 0.000011 16649.82 0.03 0.76 2625.92 raymondville Reach 8 222418 5757.00 39.03 59.68 59.69 58.55 0.13 831.00 38.71 50.91 0.000240 416.06 raymondville Reach 8 220780 50.85 2.00 67.74 0.16 220780 38,71 53.15 53.26 0.000350 2.67 561.20 raymondville Reach 8 1497.00 75.11 2298.00 38.71 54.99 55.16 0.000469 3,32 692.90 0.19 raymondville Reach 8 220780 raymondville 59.58 5.48 1195.68 583.57 0.29 0.000978 Reach 8 220780 5757.00 38.71 59.12 50.09 408.60 58.05 0.14 50.15 0.000252 2.03 217688 831.00 38.09 raymondville Reach 8 2.86 523.40 65.49 0.18 52.07 0.000421 217688 1497.00 38.09 51.95 raymondville Reach B 0.000656 3.76 611.29 70.65 0.23 53.46 217688 2298.00 38.09 53.24 raymondville Reach 6 1076,17 0.21 0.000491 4.03 2833.51 raymondville Reach 8 217688 5757.00 38.09 57.24 57.41 400.23 57.47 0.14 49.58 0.000266 2.08 215481 831,00 37.65 49.51 raymondville Reach 8 215481 1497.00 37.65 51.20 51.28 0.000299 2.48 1013.24 604.76 0.15 raymondville Reach 8 765.85 215481 2298.00 52.65 0.000212 2.31 1967.73 0.13 37.65 52.60 raymondville Reach 8 57.01 0.000077 1.79 7436.04 2229.71 0.08 5757.00 215481 37.65 56.99 raymondville Reach 8 49.06 0.000263 2.07 401.87 57.72 0.14 213503 48.99 831.00 37.25 raymondville Reach 8 0.14 50.69 50.74 0.000242 2.17 1209.65 578.46 213503 1497.00 37.25 raymondville Reach 8 755.59 0.11 52.29 0.000152 1.94 2252.21 52.26 raymondville Reach 8 213503 2298.00 37.25 0.000063 1.62 8906.80 2739.35 0.08 raymondville Reach 8 213503 5757.00 37.25 56.86 56.87 656.03 643.65 0.13 raymondville 211886 B31.00 36.93 48.59 0.000232 Reach 8 211886 50.54 0.000068 2929.33 1552.12 0.07 raymondville 1497.00 36.93 50.53 Reach 8

HEC-RAS Plans P 50% D (Continued)

| HFC-RAS                      | Plant P 50% I      | Continue         |                    | Ma Ot Et       | 1410 El-       | 031110       |                   | F 0 01                |                    | <del></del>           |                  |              |
|------------------------------|--------------------|------------------|--------------------|----------------|----------------|--------------|-------------------|-----------------------|--------------------|-----------------------|------------------|--------------|
| T(IVOI                       | Reach              | RIVER SUE        | Q Total<br>(cfs)   | Min Ch El      | W.S. Elev      | Crit W.S.    | E.G. Elev<br>(ft) | E.G. Slope<br>(ft/ft) | Vel Chni<br>(ft/s) | Flow Area<br>(sq ft): | Top Width        | Froude # Ch! |
| raymondville                 | Reach 8            | 211888           | 2298.00            | 36.93          | 52.18          | (1)          | 52.19             | 0.000031              | 0.90               | 5951.17               | 2058.93          | 0.05         |
| raymondville                 | Reach 8            | 211886           | 5757.00            | 36.93          | 56.83          | ~            | 56.83             | 0.000011              | 0.68               | 20601.59              | 4951.01          | 0.03         |
| 14:                          |                    |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |
| røymondville                 | Reach 8            | 210380           | 831.00             | 36.63          | 48.18          |              | 48.25             | 0.000296              | 2.18               | 384.34                | 56.38            | 0.15         |
| raymondville                 | Reach 8            | 210380           | 1497.00            | 36.63          | 50.18          |              | 50.32             | 0.000463              | 2.96               | 505.35                | 64.39            | 0.19         |
| rsymondville                 | Reach B            | 210380           | 2298.00            | 36.63          | 51.82          |              | 52.04             | 0.000641              | 3.73               | 616.64                | 70.97            | 0.22         |
| reymondville                 | Reach B            | 210380           | 5757.00            | 36.63          | 56.37          |              | 56.74             | 0.000916              | 5.20               | 2066.04               | 2204.40          | 0.28         |
|                              | 934 (3)            | 2                |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 210328           | 831.00             | 36.62          | 48.16          |              | 48.23             | 0.000297              | 2.16               | 384.03                | 56.38            | 0.15         |
| raymondville                 | Reach 8            | 210326           | 1497.00            | 36.62          | 50.16          |              | 50.30             | 0.000464              | 2.97               | 504.76                | 64.36            | 0.19         |
| raymondville                 | Reach 8            | 210328           | 2298.00            | 36.62          | 51.80          |              | 52.02             | 0.000644              | 3.73               | 615.54                | 70.91            | 0.22         |
| raymondville                 | Reacilo            | 210328           | 5757.00            | 36.62          | 56.29          | -            | 56.69             | 0.000969              | 5.34               | 1901.08               | 2083.91          | 0.28         |
| raymondville                 | Reach 8            | 208056           | 831.00             | 36.16          | 47.48          |              | 47.53             | 0.000320              | 2.23               | 373.45                | 55,68            | 0.15         |
| rsymondville                 | Reach 8            | 206056           | 1497.00            | 36.16          | 48.94          |              | 49,11             | 0.000592              | 3.25               | 460.78                | 61.61            | 0.15         |
| raymondville                 | Reach 8            | 208058           | 2298.00            | 36.16          | 49.91          |              | 50.21             | 0.000999              | 4.40               | 522.16                | 65.48            | 0.27         |
| raymondville                 | Reach 8            | 208058           | 5757.00            | 36.16          | 51.26          |              | 52.62             | 0.004072              | 9.38               | 613.79                | 70.85            | 0.56         |
| Jana San                     | add Stayle in      | 1. 数4点0.44       |                    |                |                | İ            |                   |                       |                    |                       | , ,,,,,,         | 5.55         |
| raymondville                 | Reach 8            | 205823           | 631.00             | 35.72          | 46.80          |              | 46.86             | 0.000280              | 2.06               | 598,00                | 406.02           | 0.14         |
| rzymondville                 | Reach 8            | 205823           | 1497.00            | 35.72          | 48.39          |              | 48.42             | 0.000172              | 1.85               | 1930.33               | 1518.01          | 0.11         |
| raymondville                 | Reach 8            | 205823           | 2298.00            | 35.72          | 49.63          |              | 49.65             | 0.000091              | 1.48               | 4214.62               | 2509.09          | 0.09         |
| raymondville                 | Reach 8            | 205823           | 5757.00            | 35.72          | 51.83          |              | 51.84             | 0.000051              | 1.27               | 11847.62              | 3801.30          | 0.07         |
|                              | +4.7% 55.7         | 1000             |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville ::              | Reach 8            | 203593           | 831.00             | 35.27          | 46.00          |              | 46.10             | 0.000419              | 2.46               | 337.71                | 52.93            | 0,17         |
| raymondville                 | Reach 8            | 203593           | 1497.00            | 35.27          | 47.51          |              | 47.70             | 0.000750              | 3.55               | 421.84                | 58.95            | 0.23         |
| raymondville                 | Reach 8            | 203593           | 2298.00            | 35.27          | 48.80          |              | 49.12             | 0.001114              | 4.58               | 501.21                | 64.11            | 0.29         |
| raymondville                 | Keach 8            | 203593           | 5757.00            | 35.27          | 51.61          |              | 51.64             | 0.000192              | 2.32               | 7524.88               | 4090.83          | 0.13         |
| raymondville                 | Reach 8            | 202962           | 831.00             | 35.14          | 45.73          | <del></del>  | 45.82             | 0.000446              | 2.52               | 329.94                | 52.34            | 0.18         |
| raymondville -               | Reach 8            | 202962           | 1497.00            | 35.14          | 46.97          |              | 47.19             | 0.000875              | 3.76               | 329.94                | 57.32            | 0.18         |
| raymondville                 | Reach 8            | 202962           | 2298.00            | 35.14          | 47.92          |              | 48.32             | 0.001447              | 5.06               | 454.50                | 61.12            | 0.33         |
| raymondville                 | Reach 8            | 202962           | 5757.00            | 35.14          | 51.47          |              | 51.51             | 0.000228              | 2.52               | 6969.73               | 3978.62          | 0.14         |
| 14                           |                    |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 200800           | 831.00             | 34.67          | 44.95          |              | 45.00             | 0.000273              | 2.04               | 763.32                | 609.63           | 0.14         |
| raymondville                 | Reach 8            | 200600           | 1497.00            | 34.67          | 48.61          |              | 46.62             | 0.000095              | 1.40               | 2582.39               | 1292.30          | 0.09         |
| raymondville                 | Reach 8            | 200600           | 2298.00            | 34.67          | 47.76          |              | 47.77             | 0.000067              | 1,28               | 4184.00               | 1491.97          | 0.07         |
| raymondvilis                 | Reach 8            | 200600           | 5757.00            | 34.67          | 51.25          |              | 51.26             | 0.000057              | 1.45               | 13583.64              | 6000.00          | 0.07         |
| *****                        | 355 No. 1 To 1 1 1 | . 1297 6 17      | ļ                  |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 200550           | 831.00             | 34.66          | 44.94          |              | 44.99             | 0.000276              | 2.04               | 757.71                | 607.80           | 0.14         |
| raymondville                 | Reach 8            | 200550           | 1497.00            | 34.66          | 46.80          |              | 46.61             | 0.000096              | 1.40               | 2575.98               | 1291.60          | 0.09         |
| raymondville                 | Reach 8            | 200550           | 2298.00            | 34.66          | 47.76          |              | 47.77             | 0.000067              | 1.28               | 4179.35               | 1491.26          | 0.07         |
| raymondville                 | Reach 8            | 200550           | 5757.00            | 34.66          | 51.25          |              | 51.26             | 0.000057              | 1.45               | 13566.72              | 6000.00          | 0.07         |
| raymondville                 | Reach 8            | 198245           | 831.00             | 34.20          | 43.91          |              | 44.04             | 0.000655              | 2.91               | 285.77                | 48.84            | 0.21         |
| raymondville                 | Reach 8            | 198245           | 1497.00            | 34.20          | 46.23          |              | 46.28             | 0.000242              | 2.19               | 1615.65               | 1104.68          | 0.14         |
| raymondville                 | Reach 8            | 198245           | 2298.00            | 34.20          | 47.55          |              | 47.57             | 0.000123              | 1.72               | 3340.08               | 1518.92          | 0.10         |
| raymondville                 | Reach 8            | 198245           | 5757.00            | 34.20          | 51.15          | ,            | 51.15             | 0.000033              | 1,11               | 14497.42              | 4867.34          | 0.05         |
| 375 windi 18                 |                    | 5.000            |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 198303           | 831.00             | 31.67          | 43.10          |              | 43.17             | 0.000315              | 2.21               | 375.47                | 55.71            | 0.15         |
| raymondville                 | Reach 8            | 198303           | 1497.00            | 31.67          | 45.57          |              | 45.68             | 0.000395              | 2.77               | 663.13                | 455.79           | 0.17         |
| raymondville                 | Reach 8            | 198303           | 2298.00            | 31.67          | 47.12          |              | 47.20             | 0.000324              | 2.67               | 1589.43               | 810.89           | 0.16         |
| raymondville                 | Reach 8            | 198303           | 5757.00            | 31.67          | 51.04          |              | 51.05             | 0.000101              | 1.80               | 7571.85               | 3343,04          | 0.09         |
|                              |                    | 1757             | <b> </b>           |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 194838           | 831.00             | 31.17          | 42.57          | <u> </u>     | 42.65             |                       | 2.22               | 373.83                | 55.59            | 0.15         |
| raymondville<br>raymondville | Reach 8            | 194638<br>194638 | 1497.00<br>2298.00 | 31.17<br>31.17 | 44.95<br>46.72 |              | 45.05<br>46.77    |                       | 2.65<br>2.13       | 817.16<br>2147.96     | 547.40<br>920.16 |              |
| raymonoville<br>raymondville | Reach 8            | 194636           | 5757.00            | 31.17          | 50.94          |              | 50.95             |                       | 1.23               |                       | 4365.30          |              |
| - Price or the               | - Industria        | 18-43-0          | 3737.00            | 31.11          | 34.04          |              |                   |                       | 1.23               | 12707,00              | 7505.30          | 0.56         |
| raymondville                 | Reach 8            | 193324           | 831.00             | 30.77          | 42.15          | 35.21        | 42.22             | 0.000322              | 2.23               | 372.69                | 55.51            | 0.15         |
| raymondville                 | Reach 8            | 193324           | 1497.00            | 30.77          | 44.37          | 36.81        | 44.50             | <del></del>           | 2.96               |                       | 64.39            |              |
| raymondville                 | Reach 8            | 193324           | 2298.00            | 30.77          | 46.11          | 38.25        | 46.32             | 0.000621              | 3.68               |                       | 71.35            |              |
| raymondville                 | Reach 8            | 193324           | 5757.00            | 30.77          | 50.79          |              |                   | +                     | 2,50               |                       | 2922.12          |              |
|                              | - Francisco        |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 192642           | 831.00             | 30.57          | 41.93          | 35.01        | 42.00             |                       | 2.24               |                       | 55.43            |              |
| raymondville                 | Reach 6            | 192642           | 1497.00            | 30.57          | 44.04          | 36.61        | 44.18             | <del></del>           | 3.01               |                       | 63.88            |              |
| rsymondville                 | Reach B            | 192642           | 2298.00            | 30.57          | 45.65          | -            | 45.88             |                       | 3,79               | ·                     | 70.33            | <del></del>  |
| rsymondville ·               | Reach 8            | 192642           | 5757.00            | 30.57          | 49.92          | 42.20        | 50.50             | 0.001295              | 6,11               | 942.63                | 87.41            | 0.33         |
|                              | Davit 6            | 404427           | 80.00              |                | 44 64          | -            | 41.51             | 0.000000              |                    | 369.11                |                  |              |
| raymondville                 | Reach 8            | 191137           | 831.00             | 30.12<br>30.12 | 41.43<br>43.26 |              | 41.51             | · <del> </del>        | 2,25               |                       | 55.25<br>62.56   |              |
| rsymondville                 | Reach 8            | 191137           | 1497.00<br>2298.00 | 30.12          |                | <del></del>  | 43.41             |                       | <del></del>        |                       | 62.56<br>67.44   | <del></del>  |
| rsymondville                 | Reach 8            | 191137           | 5757.00            | 30.12          |                | +            | 47.76             |                       | <del></del>        |                       |                  | <del></del>  |
| · eyencercrising             | nowal o            | 101101           | 3,37.00            | 30.12          | 70.//          | <del> </del> | 4,,,0             | 0.002040              | 1,30               | 721.00                | 70.01            | 0.40         |
| rsymondville                 | Reach 8            | 188680           | 831.00             | 29.38          | 40.78          |              | 40.83             | 0.000233              | 1.90               | 685.59                | 447.56           | 0.13         |
| raymondville                 | Reach 8            | 188680           | 1497.00            | 29.38          |                | <del></del>  | 42.82             | +                     |                    |                       | 843.88           |              |
| raymondville                 | Reach 8            | 188680           | 2298.00            | 29.38          |                |              | 44.19             |                       | <del></del>        | <del></del>           |                  |              |
| raymondville                 | Reach 8            | 188680           | 5757.00            | 29.38          |                |              | 46.84             |                       |                    |                       |                  |              |
|                              |                    | 1 1 1 1          |                    |                |                |              |                   |                       |                    |                       |                  |              |
| raymondville                 | Reach 8            | 187150           | 831.00             | 28.92          | 40.33          |              | 40.41             | 0.000317              | 2.22               | 374.76                | 55.67            | 0.15         |
|                              |                    |                  |                    |                |                |              |                   |                       |                    |                       |                  |              |

| 77 T T T T   | Reach   | River Sta                                      | Q Total   | Min Ch El                                 | W.S. Elev                                 | Crit W.S. | E.G. Elev                                 | E.G. Slope   | Vel Chnl                             | Flow Area                                       | Top Width                                   | Froude # Chi             |
|--|---|--|---|---|---|-----------|---|--|--------------------------------------|---|---|--------------------------|
| raymondville   | Reach 8   | 187150   | (cfs)   | (ft)                                      | (ft)                                      | (ft)      | (ft)                                      | (ft/ft)  | (fl/s)                               | (3q ft)   | (FI)  | F-8-4/6,1767             |
| aymondville  | Reach 8   | 187150   | 1497.00<br>2298.00                                  | 28.92                                     | 42.33                                     |           | 42.47                                     | 0.000492   | 3.03                                 | 493.91  | 63.66                                       | 0.1                      |
| aymondville  | Reach 8   | 187150   | 5757.00   | 28.92                                     | 43.64                                     |           | 43.88                                     | 0.000753   | 3.96                                 | 580.41  | 68.88                                       | 0.2                      |
| Talkia ya Malaka   |   |  | 3737.00   | 20.92                                     | 40.09                                     |           | 46.47                                     | 0.001144   | 5.63                                 | 1804.72   | 742.81                                      | 0.3                      |
| aymondville  | Reach 8   | 187100   | 831.00  | 28.91                                     | 40.32                                     |           | 40,39                                     | 0.000318   | 2.20                                 | 271.00  |   |                          |
| aymondville  | Reach 8   | 187100   | 1497.00   | 28.91                                     | 42.31                                     |           | 42.45                                     | 0.000318   | 2.22<br>3.04                         | 374,38  | 55.64                                       | 0.1                      |
| aymondville  | Reach 8   | 187100   | 2298.00   | 28.91                                     | 43.60                                     |           | 43.85                                     | 0.000758   | 3.97                                 | 492.93<br>578,97                                | 63.60                                       | 0.1                      |
| aymondville  | Reach 8   | 187100   | 5757.00   | 28.91                                     | 46.02                                     |           | 46.41                                     | 0.001207   | 5.76                                 | 1747.47   | 68,80                                       | 0,2                      |
| The Carr   |   | SE MANAGEMENT                                  |   |   | 10.00                                     |           | 40.41                                     | 0.001207   | 3.76                                 | 1747.47   | 729.26                                      | 0.3                      |
| aymondville  | Reach 8   | 184550   | 831.00  | 28.14                                     | 39,51                                     |           | 39.59                                     | 0.000316   | 2.21                                 | 417.62  | 271.86                                      | 0.1                      |
| aymondville  | Reach 8   | 184550   | 1497.00   | 28.14                                     | 42.07                                     |           | 42.08                                     | 0.000059   | 1.16                                 | 3439.76   | 1927.66                                     | 0.0                      |
| aymondville  | Reach 8   | 184550   | 2298.00   | 28.14                                     | 43.59                                     |           | 43.59                                     | 0.000026   | 0.86                                 | 6661.29   | 2342.67                                     | 0.0                      |
| aymondville  | Reach 8   | 184550   | 5757.00   | 28.14                                     | 46.07                                     |           | 46.07                                     | 0.000029   | 1.04                                 | 13860.39  | 3648.47                                     | 0.0                      |
| Jacobski Blok  |   | a salah ka                                     |   |   |   |           |   |  |                                      | 7,000   | 0010.17                                     | 0.0                      |
| aymondville  | Reach 8   | 184500   | 831.00  | 28,13                                     | 39.50                                     |           | 39.57                                     | 0.000317   | 2.21                                 | 413,97  | 260.76                                      | 0.1                      |
| aymondville  | Reach 8   | 184500   | 1497.00   | 28.13                                     | 42.06                                     |           | 42.07                                     | 0.000059   | 1.16                                 | 3434.16   | 1926.88                                     | 0.0                      |
| aymondville  | Reach 8   | 184500   | 2298.00   | 28.13                                     | 43.59                                     |           | 43.59                                     | 0.000026   | 0.86                                 | 6658,77   | 2341.96                                     | 0.0                      |
| aymondville  | Reach 8   | 184500   | 5757.00   | 28.13                                     | 46.07                                     |           | 46.07                                     | 0.000029   | 1.04                                 | 13855.65  | 3647.85                                     | 0.0                      |
|  | A BUT WHITE                                     | 20-5 <b>4</b> (2005 1-4-10)                    |   |   |   |           |   |  |                                      |   |   | -                        |
| aymondville  | Reach 8   | 183033   | 831.00  | 27.68                                     | 38.99                                     | 32.10     | 39.07                                     | 0.000328   | 2.25                                 | 369.86  | 55.31                                       | 0.1                      |
| aymondville  | Reach 8   | 183033   | 1497.00   | 27.56                                     | 41.81                                     | 33.70     | 41.90                                     | 0.000273   | 2.46                                 | B70.11  | 390.26                                      | 0.1                      |
| symondville  | Reach 8   | 183033   | 2298,00   | 27.66                                     | 43.43                                     | 35.14     | 43.50                                     | 0.000220   | 2.48                                 | 1862.21   | 589.07                                      | 0.1                      |
| rymondville  | Reach 8   | 183033   | 5757.00   | 27.66                                     | 45.85                                     | 39.29     | 45.95                                     | 0.000337   | 3.52                                 | 3609.69   | 1136.75                                     | 0.1                      |
| minimus and  | Service Miller                                  | 204040   |   |   |   |           |   |  |                                      |   |   |                          |
| ymondville   | Reach 6   | 181219   | 831.00  | 27.11                                     | 38.38                                     |           | 38.46                                     | 0.000335   | 2.26                                 | 366,96  | 55.10                                       | 0.1                      |
| aymondville<br>aymondville   | Reach 8   | 181219   | 1497.00   | 27.11                                     | 41.27                                     |           | 41.37                                     | 0.000320   | 2.59                                 | 752.69  | 327.91                                      | 0.1                      |
| symondville  | Reach 8   | 181219<br>181219                               | 2298.00   | 27.11                                     | 43.00                                     |           | 43.08                                     | 0.000245   | 2.55                                 | 1753.26   | 879.75                                      | 0.1                      |
| -1viinAiiia  | ivercal 0                                       | IOIZIA   | 5757.00   | 27.11                                     | 45.36                                     |           | 45.42                                     | 0.000243   | 2.92                                 | 4650.96   | 1531.27                                     | 0.1                      |
| ymondville   | Reach 8   | 179129   | 831.00  | 26,49                                     | 37.67                                     |           |   |  |                                      |   |   |                          |
| ymondville   | Reach 8   | 179129   | 1497.00   | 26.49                                     | 40.76                                     |           | 37.75                                     | 0.000349   | 2.30                                 | 361,61  | 54.71                                       | 0.1                      |
| ymondville   | Reach 8   | 179129   | 2298.00   | 26.49                                     | 42.87                                     | -         | 40.81                                     | 0.000214   | 2,14                                 | 1475.93   | 1351.31                                     | 0.1                      |
| ymondville   | Reach 8   | 179129   | 5757.00   | 26.49                                     | 45.25                                     |           | 42.88<br>45.25                            | 0.000042   | 1,10                                 | 5675.07   | 2510.56                                     | 0.0                      |
|  |   |  | 0737.00   | 20.43                                     | 43.23                                     |           | 45.25                                     | 0.000034   | 1.13                                 | 12157.70  | 3317.94                                     | 0.0                      |
| ymondville   | Reach 8   | 178000   | 831.00  | 26.15                                     | 37.27                                     | 30.59     | 37.35                                     | 0.000357   | 2 22                                 | 750.00  | 54.47                                       |                          |
| ymondville   | Reach 8   | 178000   | 1497.00   | 26.15                                     | 40.38                                     | 32.19     | 40.50                                     | 0.000357   | 2.32                                 | 358.36  | 54.47                                       | 0.1                      |
| ymondville   | Reach 8   | 178000   | 2298.00   | 26.15                                     | 42.67                                     | 33.63     | 42.77                                     | 0.000369   | 2.73                                 | 557.67  | 124.20                                      | 0.1                      |
| ymondville   | Reach 6   | 178000   | 5757.00   | 26.15                                     | 45.17                                     | 37.77     | 45.19                                     | 0.000269   | 2.76                                 | 1342.23   | 1666.24                                     | 0.1                      |
| W. N. L. Bark  |   | San Rifer Communication                        | 4707.00   | 20.13                                     | 40.77                                     | 37.77     | 43.191                                    | 0.000094   | 1.87                                 | 8928.33   | 3610.65                                     | 0.0                      |
| ymondville   | Reach 8   | 177727   | 831.00  | 26.07                                     | 37.17                                     | 30.51     | 37.25                                     | 0.000360   | 2.33                                 | 257.00  |   |                          |
| rymondville  | Reach 8   | 177727   | 1497.00   | 26.07                                     | 40.28                                     | 32.11     | 40.40                                     | 0.000371   | 2.33                                 | 357.38<br>551.94                                | 54.40<br>100.27                             | 0.1                      |
| ymondville   | Reach 8   | 177727   | 2298.00   | 26.07                                     | 42.59                                     | 33.55     | 42.70                                     | 0.000371   | 2.79                                 | 1302.86   |   | 0.1                      |
| ymondville   | Reach 8   | 177727   | 5757.00   | 26.07                                     | 45.15                                     | 37.69     | 45.17                                     | 0.000096   | 1.90                                 | 8836.10   | 1622.75<br>3604.03                          | 0.1                      |
| 2 A., 150 S.   | Signification.                                  | 1.4 11144.00                                   |   |   |   | 07.00     | - 10:11                                   | 0.000030   | 1.80                                 | 0030.10   | 3004.03                                     | 0.0                      |
| rymondville  | Reach 8   | 175705   | 831.00  | 25.46                                     | 36.42                                     | 29.90     | 36.50                                     | 0.000382   | 2.38                                 | 349.66  | 53,83                                       | 0.1                      |
| ymondville   | Reach 8   | 175705   | 1497.00   | 25.46                                     | 39.50                                     | 31.50     | 39.62                                     | 0.000398   | 2.80                                 | 534.47  | 66.15                                       | 0.1                      |
| ymondville   | Reach 8   | 175705   | 2298.00   | 25.46                                     | 41.99                                     | 32.94     | 42.10                                     | 0.000313   | 2.84                                 | 1213.69   | 551.88                                      | 0.1                      |
| ymondville   | Reach 8   | 175705   | 5757.00   | 25.46                                     | 44.72                                     | 37.08     | 44.83                                     | 0.000328   | 3.42                                 | 3480.51   | 1068.56                                     | 0.1                      |
|  |   |  |   |   |   |           |   |  |                                      | 0.00.01   | 100.55                                      | 0,1                      |
| rymondville  | Reach 8   | 175125   | 831.00  | 25.28                                     | 36.19                                     | 29.71     | 36.28                                     | 0.000389   | 2.39                                 | 347.25  | 53.65                                       | 0.1                      |
| ymondville   | Reach 8   | 175125   | 1497.00   | 25.28                                     | 39.26                                     | 31.32     | 39.39                                     | 0.000406   | 2.82                                 | 530.83  | 65.93                                       | 0.1                      |
| ymondville   | Reach 8   | 175125   | 2298.00   | 25.28                                     | 41.79                                     | 32.76     | 41.91                                     | 0.000337   | 2.93                                 | 1121.47   | 503.47                                      | 0.1                      |
| ymondville   | Reach 8   | 175125   | 5757.00   | 25.28                                     | 44.50                                     | 36.91     | 44.63                                     | 0.000369   | 3.60                                 | 3261.63   | 1024.69                                     | 0.1                      |
|  | L PARKET SAME                                   |  |   |   |   |           |   |  |                                      |   |   | 4.1                      |
| ymondville   | Reach 8   | 173765   | 831.00  | 24.88                                     | 35.64                                     |           | 35.74                                     | 0.000414   | 2.45                                 | 339.31  | 53.06                                       | 0.1                      |
| ymondville   | Reach 8   | 173765   | 1497.00   | 24.88                                     | 38.69                                     |           | 38.82                                     | 0.000430   | 2.88                                 | 519.52  | 65.24                                       | 0.1                      |
| ymondville   | Reach 8   | 173765   | 2298.00   | 24.88                                     | 41.27                                     |           | 41.42                                     | 0.000391   | 3.16                                 | 880.94  | 318.55                                      | 0.1                      |
| ymondville   | Reach 8   | 173765   | 5757.00   | 24.88                                     | 43.73                                     |           | 43.97                                     | 0.000618   | 4.61                                 | 2442.72   | 938.67                                      | 0.2                      |
|  | 1225-227  |  |   |   |   |           |   |  |                                      |   |   |                          |
| ymondville   | Reach 8   | 171741   | 831.00  | 24.27                                     | 34.75                                     |           | 34.85                                     | 0.000467   | 2.56                                 | 324.32  | 51.91                                       | 0.1                      |
| ymondville   | Reach 8   | 171741   | 1497,00   | 24.27                                     | 37.76                                     |           | 37.90                                     | 0.000478   | 3.00                                 | 499.08  | 63.97                                       | 0.1                      |
| ymondville   | Reach 8   | 171741   | 2298.00   | 24.27                                     | 40.36                                     |           | 40.54                                     | 0.000484   | 3.37                                 | 722.46  | 240.52                                      | 0.2                      |
| ymondville   | Reach 8   | 171741   | 5757.00   | 24.27                                     | 42.93                                     |           | 43.02                                     | 0.000335   | 3.30                                 | 4140.50   | 1657.83                                     | 0.1                      |
| mondville  | Reach 8   | 171891   | 924.00  | 24.25                                     |   | -         |   |  |                                      |   |   |                          |
|  | Reach 8   | 171691   | 831.00  | 24.25                                     | 34.73                                     |           | 34.83                                     | 0.000467   | 2.56                                 | 324.25  | 51.90                                       | 0.1                      |
|  | Reach 8   |  | 1497.00   | 24.25                                     | 37.74                                     |           | 37.88                                     | 0.000478   | 3.00                                 | 498.97  | 63.96                                       | 0.1                      |
| mondville  | : INCACH O                                      | 171891   | 2298.00   | 24.25                                     | 40.34                                     |           | 40.52                                     | 0.000485   | 3.37                                 | 719.14  | 223.07                                      | 0.2                      |
| mondville<br>mondville   |   | 171691   | 5757.00   | 24.25                                     | 42.90                                     |           | 42.99                                     | D.000343   | 3.33                                 | 4097.04   | 1655.17                                     | 0.1                      |
| mondville<br>mondville   | Reach 8   |  |   | - /                                       |   |           | 00.0                                      | 0.000  |                                      |   | -   |                          |
| mondville<br>mondville<br>mondville  | Reach 8   | 160740   | 974 00  | 22.00                                     |   |           |   |  |                                      |   |   |                          |
| mondville<br>mondville<br>mondville  | Reach 8   | 169710   | 831.00  | 23.66                                     | 33.69                                     |           | 33.81                                     | 0.000567   | 2.75                                 | 301.69  | 50.14                                       |                          |
| mondville<br>mondville<br>mondville<br>mondville   | Reach 8<br>Reach 8                              | 169710   | 1497.00   | 23.66                                     | 36.70                                     |           | 36.86                                     | 0.000560   | 3.18                                 | 470.54  | 62.16                                       | 0.2                      |
| ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville                     | Reach 8 Reach 8 Reach 8                         | 169710<br>169710                               | 1497.00<br>2298.00                                  | 23.66<br>23.66                            | 36.70<br>39.28                            |           | 36.86<br>39.48                            | 0.000560<br>0.000570                                     | 3.18<br>3.57                         | 470.54<br>644.01                                | 52.16<br>72.47                              | 0.2                      |
| ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville       | Reach 8<br>Reach 8                              | 169710   | 1497.00   | 23.66                                     | 36.70                                     |           | 36.86                                     | 0.000560   | 3.18                                 | 470.54  | 62.16                                       | 0.2                      |
| mondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville        | Reach 8 Reach 8 Reach 8 Reach 8                 | 169710<br>169710<br>169710                     | 1497.00<br>2298.00<br>5757.00                       | 23.66<br>23.66<br>23.66                   | 36.70<br>39.28<br>42.17                   |           | 36.86<br>39.48<br>42.27                   | 0.000560<br>0.000570<br>0.000389                         | 3.18<br>3.57<br>3.48                 | 470.54<br>644.01<br>3963.60                     | 52.16<br>72.47<br>1756.63                   | 0.2<br>0.2<br>0.2<br>0.1 |
| mondville<br>mondville<br>mondville<br>mondville<br>mondville<br>mondville<br>mondville              | Reach 8 Reach 8 Reach 8 Reach 8 Reach 8 Reach 8 | 169710<br>169710<br>169710<br>168304           | 1497.00<br>2298.00<br>5757.00                       | 23.66<br>23.66<br>23.66<br>23.63          | 36.70<br>39.28<br>42.17<br>33.08          |           | 36.86<br>39.48<br>42.27<br>33.19          | 0.000560<br>0.000570<br>0.000389<br>0.000392             | 3.18<br>3.57<br>3.48<br>2.65         | 470.54<br>644.01<br>3963.60<br>575.29           | 52.16<br>72.47<br>1756.63<br>79.79          | 0.2<br>0.2<br>0.1        |
| mondville<br>mondville<br>mondville<br>mondville<br>mondville<br>mondville<br>mondville<br>mondville | Reach 8 Reach 8 Reach 8 Reach 8 Reach 8 Reach 8 | 169710<br>169710<br>169710<br>168304<br>188304 | 1497.00<br>2298.00<br>5757.00<br>1523.00<br>2763.00 | 23.66<br>23.66<br>23.66<br>23.63<br>23.63 | 36.70<br>39.28<br>42.17<br>33.08<br>35.98 |           | 36.86<br>39.48<br>42.27<br>33.19<br>36.15 | 0.000560<br>0.000570<br>0.000389<br>0.000392<br>0.000472 | 3.18<br>3.57<br>3.48<br>2.65<br>3.35 | 470.54<br>644.01<br>3963.60<br>575.29<br>823.57 | 52.16<br>72.47<br>1756.63<br>79.79<br>91.40 | 0.2                      |
| ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville<br>ymondville                     | Reach 8 Reach 8 Reach 8 Reach 8 Reach 8 Reach 8 | 169710<br>169710<br>169710<br>168304           | 1497.00<br>2298.00<br>5757.00                       | 23.66<br>23.66<br>23.66<br>23.63          | 36.70<br>39.28<br>42.17<br>33.08          |           | 36.86<br>39.48<br>42.27<br>33.19          | 0.000560<br>0.000570<br>0.000389<br>0.000392             | 3.18<br>3.57<br>3.48<br>2.65         | 470.54<br>644.01<br>3963.60<br>575.29           | 52.16<br>72.47<br>1756.63<br>79.79          | 0.2<br>0.2<br>0.1        |

HEC-RAS Plan. P. 50% D. (Continued) W.S. Elev Min Ch El Reach Q Total River Sta Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width | Froude # Chl (cfs) **(ft)** (ft) (ft) (ft) (fVft) (ft/s) (sq ft) raymondville Reach 8 187456 1523.00 23.54 32.72 0.000436 2.75 553.90 78.71 0.18 raymondville Reach 8 167458 2763.00 23.54 35.54 35.73 0.000527 3.49 791.98 90.00 0.21 raymondville Reach 8 167456 4255.00 23.54 37.90 38,18 0.000626 4.19 1016.09 99 47 0.23 raymondville Reach 8 167456 9289.00 23.54 41.52 0.000248 3.08 9631.57 5821.31 0.15 aymondville 166128 Reach 8 1523.00 23 41 32.05 32.19 0.000544 2.97 512.27 76.56 0,20 raymondville Reach 8 166128 2763.00 23.41 34.73 34.95 0.000658 3.78 731.31 87.26 0.23 raymondville Reach 8 166128 4255.00 23 41 36.92 37.24 0.000795 4.56 932.10 96.03 0.26 raymondville Reach 8 166128 9289.00 23.41 41.13 41.22 0.000312 8867.73 3.40 6000.00 0.17 raymondville 166078 Reach 8 1523.00 23.40 32.02 32.16 0.000549 2.98 510.87 76.49 0.20 raymondville Reach 8 188078 2763.00 23.40 34.69 34.91 0.000663 3.79 729.16 87.16 0.23 raymondville Reach 8 166078 4255.00 23.40 36.87 37.20 0.000802 4.58 928.97 95.89 0.26 raymondville Reach 8 166078 9289.00 23.40 41.10 41.20 0.000325 3.47 8689.01 6000.00 0.17 164919 raymondville reach 2 671.00 22.94 31.79 31.81 0.000097 1.27 528.14 77.39 0.09 184919 raymondville reach 2 1363.00 22.94 34.39 34.45 0.000153 1.83 743.38 87.81 0.11 raymondville 164919 reach 2 2177.00 22.94 36,52 36.60 0.000204 2.32 939.22 96.32 0.13 raymondville reach 2 164919 8918.00 22.94 40.66 40.77 0.000424 3.50 5282.25 3407.14 0.19 raymondville reach 2 164431 671.00 22.89 31.74 31.77 0.000097 1.27 528.29 77.39 0.09 raymondville reach 2 164431. 1363.00 22.89 34.32 34.37 0.000156 1.84 741.17 88.70 0.11 raymondville 184431. reach 2 2177.00 22.89 38.41 36.50 0.000215 2.31 940.47 101.27 0.13 rzymondväle reach 2 164431. 8918.00 22.89 40.46 40.57 0.000411 5767.42 3.46 3779.35 0.19 raymondville reach 2 163943. 671.00 22.85 31.69 31.72 0.000097 1.27 527.87 77.39 0.09 raymondville reach 2 163943. 1363.00 22.85 34.24 34.29 0.000156 1.85 737.94 87.58 0.11 raymondville reach 2 163943. 2177.00 22.85 36.31 36,39 0.000218 2.34 929.68 98.42 0.13 raymondville reach 2 163943. 8918.00 22.85 40.30 40.38 0.000325 3.02 6826.63 4310.54 0.17 raymondville reach 2 163456 671.00 22.80 31.65 24.72 31.67 0.000097 1.27 77.39 528.02 0.09 raymondville reach 2 163456 1363.00 22.80 34.16 25.83 34 22 0.000158 1.85 735.47 87.46 0.11 raymondville reach 2 163456 2177.00 22.80 36.20 26.87 36.29 0.000214 2.36 922.14 860.16 0.13 raymondville reach 2 163456 8918.00 40.20 22.80 32.33 40.24 0.000223 2.40 9258.84 5396.27 D.14 reach 2 181457 671.00 22,59 31.45 31 48 0.000096 1.27 529.25 77.45 0.09 raymondville reach 2 161457 1363.00 22.59 33.83 33.89 0.000164 1.88 86.97 725.02 0.11 raymondville reach 2 161457 2177.00 22.59 35.88 35 91 0.000159 2.03 1575.87 1020.42 0.12 raymondville reach 2 161457 8918.00 22.59 40.10 40.11 0.000028 1.04 14962.00 6000.00 0.05 raymondville reach 2 159438 671.00 22.38 31.26 31 28 0.000096 1.26 530.50 77.51 0.09 raymondville reach 2 159438 1363.00 22.38 0.000172 33.49 33.54 1.91 713.23 86.43 0.12 raymondville reach 2 159438 2177.00 22.38 35.42 35.52 0.000238 2.45 888.20 94.1B 0.14 raymondville reach 2 159438 8918.00 22.38 39.96 39.99 0.000160 2.42 9714.32 5982.77 0.12 rzymondville reach 2 157410 671.00 22,18 31.06 31.09 0.000095 1.26 530.99 77.54 0.09 raymondville reach 2 157410 1363.00 22.18 33.13 33.19 0.000181 1.95 699.48 85.79 0.12 raymondville reach 2 157410 2177.00 22.18 34.91 35.01 0.000261 2.53 859.10 92.93 0.15 raymondville 157410 8918.00 22.18 38.55 39.21 0.001420 6.76 2042.48 2416.53 0.35 raymondville 157293.\* reach 2 671.00 22.17 31.05 31.08 0.000096 1.25 530.90 77.53 0.09 raymondville reach 2 157293.\* 1363.00 33.11 22.17 33.16 0.000182 1 95 698.43 85.74 0.12 raymondville reach 2 157293. 2177.00 22.17 34.88 34.98 0.000263 2.54 856.85 92.84 0.15 8918.00 reach 2 157293. 22.17 38.44 39.01 0.001460 6.46 2369.00 2732.65 0.35 reach 2 157176.\* 671.00 22.16 31.04 31.07 0.000096 1.26 530 83 77.53 0.09 raymondville reach 2 157176.\* 1363.00 22.16 33.08 33.14 0.000183 1 95 697.41 85.70 0.12 raymondville reach 2 157178. 2177.00 22.16 34.85 34.95 0.000265 2.55 854 65 92.75 0.15 raymondville 157178.\* reach 2 8918.00 22.16 38.38 38.81 0.001265 5.83 3057.09 3793.86 0.33 raymondville reach 2 157059 671.00 22.14 31.03 31.06 0.000095 1.26 531.47 77.56 0.08 raymondväle reach 2 157059. 1363.00 22.14 33.06 33.12 0.000183 1.96 697.15 85 68 0.12 raymondville reach 2 157059.\* 2177.00 22.14 34.81 34.91 0.000276 2.55 855.37 96.41 0.15 raymondville reach 2 157059.1 8918.00 22.14 38.43 38.64 0.000730 4.59 4968 48 6000.00 0.25 raymondville reach 2 158942 671.00 22.13 31.02 31.04 0.000095 1.26 531.40 77.58 0.09 raymondville reach 2 156942.\* 1363.00 22.13 33.04 33.10 0.000187 1.95 697.48 87 44 0.12 raymondville mach 2 158942 2177.00 22.13 34.78 34.88 0.000274 2.54 857.36 96.51 0.15 raymondville reach 2 156942 8918.00 22.13 38.47 38.55 0.000304 3.12 7592.00 6000,00 0.16 reach 2 raymondville 158825 671.00 22.12 31.01 31.03 531.31 0.000095 1.26 77.55 0.09 raymondville reach 2 156825 1363.00 22.12 33.02 33.08 0.000184 1.96 695.09 85.58 0.12 raymondville reach 2 156825 2177.00 22.12 34.74 34.84 0.000270 2.56 848.79 92 49 0.15 raymondville reach 2 156825 8918.00 22.12 38.47 38.50 0.000156 2.33 9896.59 6000.00 0.12 raymondville reach 2 155106 671.00 21.94 30.84 30.86 0.000095 1.26 531.93 77.58 0.08 raymondville

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5731.63

84.99

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4556.87

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0.16

HEC-RAS Plans P 50% D (Continued) Q Total Min Ch El W.S. Elev E.G. Slope Crit W.S. E.G. Elev Vel Chnl. Flow Area Top Width Froude # Chl Reach River Sta (cfs) (ft) (ff) (ft) (ft) (fl/fl) (fl/s) (sq ft) 153062 671.00 raymondville reach 2 21.73 30.64 30.67 0.000094 1.26 533 21 77.65 0.08 32.27 raymondville reach 2 153062 1363.00 21.73 32.34 0.000209 2.05 665.15 84.17 0.13 raymondville reach 2 153062 2177.00 21.73 33.58 33.71 0.000342 2.79 778.94 89.42 0.17 raymondville reach 2 153062 8918.00 21.73 37.36 37.41 0.000207 2.67 6461.61 2350.51 0.14 151635 671.00 21.59 30.50 30.53 raymondville reach 2 0.000094 1.26 533 21 77.65 0.08 raymondville reach 2 151635 1363.00 21.59 31.96 32.03 0.000222 2.10 650.47 83 47 0.13 raymondville reach 2 151635 2177.00 21.59 33 04 33 17 0.000390 2.93 743 24 87.81 0.18 raymondville reach 2 151635 8918.00 21.59 36.83 36.97 0.000489 4.00 4256.13 1820.58 0.21 raymondville reach 2 150792 942.00 21.50 30.35 30 40 0.000191 1 78 528.30 77.40 0.12 raymondville reach 2 150792 1823.00 21.50 31.63 31.76 0.000433 2.89 630.80 82.53 0.18 raymondville reach 2 150792 2704 00 21.50 32.50 32.73 0.000701 3 84 703 RA 85.99 0.24 raymondvilla reach 2 150792 9738.00 21.50 36.44 31.53 36.55 0.000485 3.91 5644.83 3282.83 0.21 raymondville reach 2 149670 787.00 21.30 30.17 30.21 0.000132 1.48 530 09 77 49 0.10 raymondville reach 2 149870 1264.00 21.30 31.30 31,37 0.000218 2.04 620.36 82.02 0.13 raymondville reach 2 149670 1810.00 21.30 31.98 32.09 0.000351 2.68 676.39 84 71 0.17 raymondville reach 2 149670 6269,00 21.30 34.98 29.06 35.66 0.001633 6.59 1016.56 1023.39 0.37 149620 787.00 21.29 raymondville reach 2 30.17 30,20 0.000132 1.48 530.35 77.50 0.10 149620 raymondville reach 2 1264.00 21.29 31.29 31.36 0.000218 2.04 620.28 82 01 0.13 reach 2 raymondville 149820 1810.00 21.29 31.96 32.07 0.000352 2.68 675.73 84.67 0.17 149620 29.05 raymondville reach 2 6269.00 21.29 34.89 35.58 0.001679 6.66 943.72 337.32 0.38 21.09 raymondville reach 2 147620 787.00 29.89 29.92 0.000136 1.50 524.44 77.20 0.10 raymondville reach 2 147620 1264.00 21.09 31.16 31.16 0.000051 0.99 3594.70 2960.94 0.06 147620 raymondville reach 2 1810.00 21.09 31.88 31.89 0.000033 0.82 5771,46 3035.70 0.05 147620 raymondville reach 2 6269.00 21.09 35.29 35.29 0.000012 0.64 21798.52 6000.00 0.03 145820 787.00 20.88 29.65 0.000140 1.52 519.21 0.10 raymondville reach 2 29.61 76.92 145620 20.88 31.04 31,05 0.000060 2967.47 raymondville reach 2 1264.00 1.08 3295.58 0.07 145620 raymondville reach 2 1810.00 20.88 31.81 31.82 0.000035 0.86 5613.27 3042.87 0.05 0.64 145620 20.88 0.000012 raymondville reach 2 6269.00 35.26 35.26 22079.83 6000.00 0.03 20.57 29.19 raymondville reach 2 142669 787.00 29.23 0.000147 1.54 510.55 76.48 0.11 142669 631,80 raymondville reach 2 1264.00 20.57 30.71 30.78 0.000207 2.00 82.57 0.13 142669 1810.00 raymondville reach 2 20.57 31.50 31.61 0.000321 2.59 698 25 85.73 0.16 raymondville reach 2 142669 6269.00 20.57 34.66 35,12 0.001144 5.71 1870.85 1749.73 0.31 1.54 0.11 142619 787.00 20.57 29.18 0.000147 509.98 76.44 raymondville reach 2 29.22 142619 1264.00 0.13 raymondville reach 2 20.57 30.70 30,77 0.000208 2.00 630.92 82,53 1810.00 696.82 raymondville mach 2 142619 20.57 31.49 31.59 0.000323 2.60 85.67 0.16 raymondville reach 2 142619 6269.00 20.57 34.55 35.05 0.001245 5.91 1689,91 1599.25 0.33 140677 20.38 28.88 28.92 0.000154 1.57 501.48 76.00 0.11 raymondville reach 2 787.00 1827.71 raymondville reach 2 140677 1264.00 20.38 30.34 30.39 0.000183 1,86 1204.57 0.12 20.38 1.50 2886.29 1912.18 0.09 raymondville reach 2 140677 1810.00 31.24 31.26 0.000109 0.000040 raymondville reach 2 140677 6269.00 20.38 34.72 34.72 1.07 13492.55 4418.35 0.06 28.60 0.000162 1.60 493.10 75.56 0.11 138658 787.00 20.17 28.56 raymondville reach 2 29.96 138658 1264.00 20.17 29.89 0.000243 2.12 597,44 80.89 0.14 raymondville reacti 2 138658 30.99 0.000135 2643.08 2100.07 0.10 raymondville reach 2 1810.00 20.17 31.02 1.67 0.04 raymondville reach 2 138658 6269.00 20.17 34.66 34.67 0.000020 0.82 18833.83 5933.19 reach 2 138000 787.00 20.10 28,45 28,49 0.000165 1.61 490.25 75.41 0.11 raymondville 138000 1264.00 20.10 29.73 29.80 0.000252 2.14 589.82 80.51 0.14 raymondville reach 2 1810.00 30.77 30,68 0.000352 2.68 675.56 84.67 0.17 138000 20.10 raymondville reach 2 6973.89 3.00 6000.00 0.16 raymondville reach 2 138000 6269.00 20.10 34.51 34.58 0.000304 1.61 489.61 75.37 0.11 137950 787.00 20.10 28.44 28.48 0.000165 raymondville reach 2 Q.14 1264.00 20.10 29.72 29.79 0.000253 2.15 588.78 80.46 137950 raymondville reach 2 137950 1810.00 20.10 30.75 30.86 0.000355 2.69 674.00 84.59 0.17 raymondville reach 2 reach 2 137950 6269.00 20.10 34.50 34.57 0.000308 3.02 6922.23 6000.00 0.16 raymondville 136663 787.00 20.09 28.22 28.26 0.000182 1.66 0.12 raymondville reach 2 20.09 29.36 29.44 0.000290 2.25 561.19 79.08 0.15 136663 1264.00 reach 2 raymondville 20.09 30.40 30.46 0.000251 2.25 2046.72 3581.38 0.14 raymondville 136663 1810.00 reach 2 34.49 34.49 0.000014 0.70 21724.92 6000.00 0.04 136663 20.09 6269.00 raymondville reach 2 877.69 134689 787.00 19.96 27.89 27.92 0.000153 1.51 1036.26 0.11 raymondville reach 2 3873.69 0.05 134669 1264.00 19.96 29.27 29.27 0.000032 0.79 4658.17 raymondville reach 2 10593.80 5961.92 0.03 raymondville reach 2 134669 1810.00 19.96 30.39 30.39 0.000012 0.53 0.02 134669 6269.00 19.96 0.000003 0.36 35156.31 6000.00 raymondville reach 2 132609 787.00 19.75 27.81 27.81 0.000023 0.64 2918.45 1533.25 0.04 reach 2 raymondville 7624.43 4786.89 0.03 1264.00 19.75 29.22 29.23 0.000012 0.52 132609 raymondville reach 2 132609 1810.00 30.38 30.38 0.000006 0.39 13540.18 5921.56 0.02 raymondville reach 2

| River                        | Reach               | River Sta | Q Total<br>(cfs)   | Min Ch El      | W.S. Elev     | Crit W.S.      | E.G. Elev      | E.G. Slope | Vei Chni     | Flow Area           | Top Width          | Froude # Chl |
|------------------------------|---------------------|-----------|--------------------|----------------|---------------|----------------|----------------|------------|--------------|---------------------|--------------------|--------------|
| raymondville                 | reach 2             | 132609    | 6269.00            | (ft)<br>19.75  | (ft)<br>34.47 | (ft)           | (ft)           | (ft/ft)    | (ft/s)       | (sq fi)             | (ft)               |              |
| 100                          | 1                   | 1,02000   | 0203.00            | 19.73          | 34.47         |                | 34.47          | 0.000003   | 0.33         | 38122.96            | 6000.00            | 0.02         |
| raymondville                 | reach 2             | 129500    | 787.00             | 19.43          | 27.73         |                | 27.73          | 0.000041   | 0,86         | 2050.70             |                    |              |
| raymondville                 | reach 2             | 129500    | 1264.00            | 19.43          | 29.18         |                | 29.18          |            | 0.70         | 2059.78             | 1193.99            | 0.06         |
| raymondville                 | reach 2             | 129500    | 1810.00            | 19.43          | 30.36         |                | 30.36          | 0.000010   | 0.70         | 4915.23<br>9919.65  | 3859.59            | 0.04         |
| raymondville                 | reach 2             | 129500    | 6269.00            | 19.43          | 34.47         |                | 34.47          | 0.000004   | 0.44         | 31169.46            | 4556.68<br>5611.03 | 0.03         |
|                              | 5 Mt 1 3 3 3        |           |                    |                |               |                |                |            |              | 01.00.40            | 3011.03            | 0.02         |
| raymondville                 | reach 2             | 129450    | 787.00             | 19.43          | 27.73         |                | 27.73          | 0.000041   | 0.86         | 2057.32             | 1193.29            | 0.08         |
| raymondville                 | reach 2             | 129450    | 1284.00            | 19.43          | 29.18         |                | 29.18          | 0.000021   | 0.70         | 4911.13             | 3856.08            | 0.04         |
| raymondville                 | reach 2             | 129450    | 1810.00            | 19.43          | 30.36         |                | 30.36          | 0.000010   | 0.51         | 9917,47             | 4556.44            | 0.03         |
| raymondville                 | reach 2             | 129450    | 6269.00            | 19.43          | 34.46         |                | 34.46          | 0.000004   | 0.44         | 31121.15            | 5610.61            | D.02         |
|                              |                     | 407700    |                    |                |               |                |                |            |              |                     |                    |              |
| raymondville<br>raymondville | reach 2             | 127700    | 787.00             | 19.25          | 27.64         |                | 27.65          | 0.000063   | 1.08         | 1380.91             | 718.09             | 0.07         |
| raymondville                 | reach 2             | 127700    | 1264.00<br>1810.00 | 19.25          | 29.13         |                | 29.14          | 0.000041   | 0.98         | 2826.14             | 1145.99            | 0.08         |
| raymondville                 | reach 2             | 127700    | 6269.00            | 19.25<br>19.25 | 30.33         |                | 30.33          | 0.000035   | 1.00         | 4594.18             | 2336.10            | 0.06         |
| regional and                 | Sparit Street in    | 127700    | 0209.00            | 19.23          | 34.45         |                | 34.45          | 0.000010   | 0.66         | 22598.80            | 4740.51            | 0.03         |
| raymondville                 | reach 2             | 126465    | 787.00             | 19.12          | 27.53         |                | 27.55          | 0.000400   |              |                     |                    |              |
| raymondville ::              | reach 2             | 126485    | 1264.00            | 19.12          | 29.06         |                | 27.55<br>29.08 | 0.000100   | 1.09         | 959.63              | 409.99             | 0.08         |
| raymondville                 | reach 2             | 126465    | 1810.00            | 19.12          | 30.27         |                | 30.28          | 0.000075   | 1.12         | 1847.73             | 975.94             | 0.06         |
| raymondville                 | reach 2             | 126465    | 6269.00            | 19.12          | 34.45         |                | 34.45          | 0.000006   | 1.06<br>0.48 | 4685.94             | 4387.37            | 0.07         |
| 1.19                         | 14일 <u>: 11년</u> 국가 | 1 4 44    |                    |                |               |                | - J-7.45       | 0.00000    | 0.48         | 28352.33            | 6000.00            | 0.02         |
| raymondville                 | reach 2             | 124374    | 787.00             | 18.91          | 27.41         |                | 27.42          | 0.000040   | 0.87         | 2216.04             | 1638.86            |              |
| raymondville                 | reach 2             | 124374    | 1264.00            | 18.91          | 29.01         |                | 29.02          | 0.000014   | 0.59         | 5860.52             | 2794.08            | 0.06         |
| raymondville                 | reach 2             | 124374    | 1810.00            | 18.91          | 30.25         |                | 30.25          | 0.000008   | 0.47         | 10624.64            | 4200.33            | 0.03         |
| raymondville                 | reach 2             | 124374    | 6269.00            | 18,91          | 34.45         |                | 34.45          | 0.000005   | 0.46         | 30788.52            | 6000.00            | 0.03         |
|                              |                     |           |                    |                |               |                |                |            |              |                     |                    | 0.02         |
| raymondville                 | reach 2             | 124318    | 787.00             | 18.90          | 27.41         |                | 27.42          | 0.000043   | 0.75         | 2214.57             | 1638.54            | 0.06         |
| raymondville                 | reach 2             | 124318    | 1264.00            | 18.90          | 29.01         |                | 29.01          | 0.000014   | 0.51         | 5838.29             | 2779.36            | 0.03         |
| raymondville                 | reach 2             | 124318    | 1810.00            | 18.90          | 30.24         |                | 30.25          | 0.000008   | 0.42         | 10610.97            | 4199.82            | 0.03         |
| raymondville                 | reach 2             | 124318    | 6269.00            | 18.90          | 34,44         |                | 34.45          | 0.000005   | 0.42         | 30781.88            | 6000.00            | 0.02         |
| raymondville                 | reach 2             | 122094    | 787.00             | 10.07          |               |                |                |            |              |                     |                    |              |
| raymondville                 | reach 2             | 122094    | 1264.00            | 18.67<br>18.67 | 27.36         |                | 27.36          | 0.000023   | 0.62         | 2850.12             | 1516.27            | 0.04         |
| raymondville                 | reach 2             | 122094    | 1810.00            | 18.67          | 28.98         |                | 28.98          | 0.000011   | 0.48         | 5505.84             | 1782.21            | 0.03         |
| raymondville                 | reach 2             | 122094    | 6269.00            | 18.67          | 34.44         |                | 30.24          | 0.000009   | 0.48         | 8445.86             | 3654.54            | 0.03         |
| 1,200                        | 17.                 | 122001    | 3203.00            | 10.07          | 34.44         |                | 34.44          | 0.000006   | 0.49         | 27925.87            | 5233.10            | 0.02         |
| raymondville                 | reach 2             | 121688.*  | 787.00             | 18.63          | 27.32         |                | 27.35          | 0.000127   | - 4.42       | 704.50              |                    |              |
| raymondville                 | reach 2             | 121688.*  | 1264.00            | 18.63          | 28.95         |                | 28.96          | 0.000055   | 1.43         | 734.52              | 792.20             | 0.10         |
| raymondville                 | reach 2             | 121688.*  | 1810.00            | 18.63          | 30.22         |                | 30.23          | 0.000035   | 1.06         | 2680.49             | 1517.40            | 0.07         |
| raymondville                 | reach 2             | 121688.*  | 6289.00            | 18.63          | 34,44         |                | 34.44          | 0.000009   | 0.62         | 6095.84<br>24545.21 | 3258.54<br>5619.88 | 0.05         |
|                              |                     |           |                    |                |               |                |                | 0.00000    | 0.02         | 24545.21            | 3018.00            | 0.03         |
| raymondville                 | reach 2             | 121283.*  | 787.00             | 18.59          | 27.28         |                | 27.31          | 0.000121   | 1.41         | 701.20              | 273.34             | 0.10         |
| raymondville                 | reach 2             | 121283.*  | 1264.00            | 18.59          | 28.90         |                | 28.93          | 0.000120   | 1.56         | 1654.73             | 1505.94            | 0.10         |
| raymondville                 | reach 2             | 121283.*  | 1810.00            | 18.59          | 30.21         |                | 30.22          | 0.000044   | 1.02         | 4653.45             | 3013.18            | 0.08         |
| raymondville                 | reach 2             | 121263.*  | 6269.00            | 18.59          | 34.44         |                | 34.44          | 0.000012   | 0.69         | 22379.71            | 5560.63            | 0.03         |
|                              | Harate Committee    |           |                    |                |               |                |                |            |              |                     |                    |              |
| raymondville                 | reach 2             | 120877.*  | 787.00             | 18.55          | 27.24         |                | 27.27          | 0.000114   | 1.37         | 784.82              | 362.31             | 0.09         |
| raymondville                 | reach 2             | 120877.*  | 1264.00            | 18.55          | 28.89         |                | 28.90          | 0.000066   | 1.18         | 2615.84             | 1836.20            | 0.07         |
| raymondville                 | reach 2             | 120877.*  | 1810.00            | 18.55          | 30.21         |                | 30.22          | 0.000028   | 0.81         | 5247.69             | 2101.34            | 0.05         |
| ayındıramı                   | reach 2             | 120877.*  | 6269.00            | 18,55          | 34.44         |                | 34.44          | 0.000012   | 0.67         | 20864.48            | 5340.95            | 0.03         |
| raymondville                 | reach 2             | 120472.*  | 787.00             | 18.51          | 27.21         |                |                |            |              |                     |                    |              |
| raymondville                 | reach 2             | 120472.*  | 1264.00            | 18.51          | 28.89         |                | 27.23          | 0.000089   | 1.21         | 1195.00             | 938.08             | 0.08         |
| aymondville                  | reach 2             | 120472.*  | 1810.00            | 18.51          | 30.21         |                | 28.89          | 0.000034   | 0.83         | 3737.94             | 2030.14            | 0.05         |
| aymondville                  | reach 2             | 120472.*  | 6269.00            | 18.51          | 34.44         |                | 30.21<br>34.44 | 0.000017   | 0.64         | 8558.18             | 2378.51            | 0.04         |
|                              |                     | 7         |                    |                |               |                | V4.44          | 5.500010   | 0,39         | 20013.16            | 4549.03            | 0.03         |
| raymondville                 | reach 2             | 120087    | 787.00             | 18.47          | 27.20         | 20.60          | 27.21          | 0.000052   | 0.92         | 1940.45             | 1482.05            | 0.00         |
| aymondville                  | reach 2             | 120067    | 1264.00            | 18.47          | 28.88         | 21.36          | 28.89          | 0.000017   | 0.59         | 4949.31             | 2082.55            | 0.08         |
| aymondville                  | reach 2             | 120067    | 1810.00            | 18.47          | 30.21         | 22.09          | 30.21          | 0.000010   | 0.50         | 8572.85             | 3044.47            | 0.03         |
| aymondville                  | reach 2             | 120067    | 6269.00            | 18.47          | 34.44         | 26.87          | 34.44          | 0.000007   | 0.49         | 21469.04            | 3052.93            | 0.03         |
|                              |                     |           |                    |                |               |                |                |            |              |                     |                    | - 0.02       |
| raymondville                 | reach 2             | 119652.*  | 787.00             | 18.43          | 27.19         | 20.56          | 27.20          | 0.000052   | 0.93         | 1844.15             | 1285.33            | 0.06         |
| zymondville                  | reach 2             | 119852.*  | 1264.00            | 18.43          | 28.88         | 21.32          | 28.88          | 0.00001B   | 0.62         | 4811.31             | 2078.38            | 0.04         |
| aymondville                  | reach 2             | 119652.*  | 1810.00            | 18.43          | 30.21         | 22.05          | 30.21          | 0.000011   | 0.52         | 8337.05             | 3044.55            | 0.03         |
| aymondville                  | reach 2             | 119652.*  | 6269.00            | 18.43          | 34.44         | 26.82          | 34.44          | 0.000007   | 0.51         | 21638.34            | 3857.47            | 0.03         |
|                              | mach 3              | 440007    | 707.00             |                |               |                |                |            |              |                     |                    |              |
| aymondville<br>aymondville   | reach 2             | 119237.*  | 787.00             | 18.38          | 27.17         | 20.51          | 27.18          | 0.000053   | 0.95         | 1796.85             | 1251.97            | 0.06         |
| aymondville<br>aymondville   | reach 2             | 119237.*  | 1264.00            | 18.38          | 28.88         | 21.27          | 28.88          | 0.000020   | 0.65         | 4670.26             | 2072.19            | 0.04         |
| aymondville<br>aymondville   | reach 2             | 119237.*  | 1810.00            | 18.38          | 30.20         | 22.00          | 30.20          | 0.000012   | 0.55         | 8100.17             | 3044.64            | 0.03         |
| - JAINARY III O              | react 2             | 118231.   | 6269.00            | 18.38          | 34.44         | 26.92          | 34,44          | 0.000007   | 0.52         | 23885.00            | 5450.79            | 0.03         |
| aymondville                  | reach 2             | 118822.*  | 787.00             | 18.34          | 27 48         | 20.47          | 07.45          | 0.00000    |              |                     |                    |              |
| aymondville                  | reach 2             | 118822.*  | 1264.00            | 18.34          | 27.16         | 20.47          | 27.17          | 0.000054   | 0.97         | 1753.89             | 1237.40            | 0.06         |
| aymondville                  | reach 2             | 118822.*  | 1810.00            | 18.34          | 30.20         | 21.23<br>21.96 | 28.88          | 0.000020   | 0.68         | 4582.60             | 2168.81            | 0.04         |
| zymondville                  | reach 2             | 118822.*  | 6269.00            | 18.34          | 34.43         | 21.96          | 30.20<br>34.43 | 0.000012   | 0.58         | 8174.30             | 3328.79            | 0.03         |
| 4                            | -                   | 1         | 5209.00            | 10.04          | 37.73         | 20.99          | 34.43          | D.000006   | 0.51         | 26901.30            | 5725.40            | 0.02         |
|                              |                     |           |                    |                |               |                |                |            |              |                     |                    |              |
| symondville                  | reach 2             | 118407    | 787.00             | 18.30          | 27.15         | 20.43          | 27.16          | 0.000048   | 0.96         | 1893.06             | 1419.20            | 0.06         |

HEC-RAS Plan. P 50% D (Continued) Reach Q Total Min Ch EJ W.S. Elev Cnt W.S. E.G. Elev E.G. Slope Vel Chni River River Sta Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (fl/ft) (ft/s) (8g ff) raymondville reach 2 21.92 1810.00 18.30 30.20 30 20 0.000011 0.57 9127 18 3910.14 0.03 raymondville reach 2 118407 6269.00 18.30 34.43 26.58 34.43 0.000005 0.47 30521.75 6000.00 0.02 raymondville 118184 reach 2 787.00 18.28 27.13 27.14 0.000049 0.95 1870 60 1432 74 0.06 raymondville reach 2 118184 1264.00 18.28 28 87 28.87 0.000017 0.64 5090 58 2343 28 0.04 raymondville reach 2 118184 1810.00 18.28 30.20 30.20 0.000010 0.55 9026 94 3877 38 0.03 raymondville reach 2 118184. 6269.00 18.28 34.43 34.43 0.000005 0.50 28674.48 6000.00 0.02 raymondville reach 2 117962 787.00 18.25 27.12 27.13 0.000051 0.95 1844 45 1449 63 0.06 raymondville reach 2 117962.\* 1264.00 18.25 28.86 28.88 0.000017 0.63 5096.18 2443 60 0.04 raymondville reach 2 117962. 1810.00 18.25 30.20 30 20 0.000009 0.51 9012 02 3285 14 3.03 raymondville 117982. reach 2 6269.00 18.25 34.43 34.43 0.000005 0.50 27451.63 5249.63 0.02 raymondville each 2 117739.\* 787.00 18.23 27.11 27.12 0.000054 1815.30 0.94 1470 51 0.06 raymondville reach 2 117739. 1264.00 28.86 18.23 28,86 0.000017 0.62 5104.73 2467.34 0.04 raymondville 117739.\* 1810.00 18.23 30.19 30.19 0.000009 0.50 9012 45 3275 17 0.03 raymondville reach 2 117739. 6269.00 18.23 34.43 34.43 0.000005 0.49 26895.62 4768 23 0.02 raymondville 117517.\* 787.00 18.20 27.09 27.10 0.000057 0.94 1788.59 1499.68 0.07 raymondville reach 2 1264.00 18.20 28.85 5117.10 28.86 0.000017 2459.94 0.61 0.04 117517.\* reach 2 1810.00 18.20 30.19 30.19 0.000009 0.49 9017.24 3247.21 0.03 raymondville 117517. 6269.00 18.20 34.43 26536.45 34.43 0.000005 4484.41 0.48 0.02 raymondviša each 2 117295 787.00 18.18 27.08 27.09 0.000061 1760.68 1519.68 0.95 0.07 raymondville reach 2 117295 1264.00 18.18 28.85 28.85 0.000017 5142.55 0.59 2436.79 0.04 raymondville reach 2 117295 1810 00 18.18 30.19 30,19 0.48 9025.28 3226.10 0.03 raymondville reach 2 117295 6269.00 18.18 34.43 0.48 26318.72 4393,32 0.02 raymondville mach 2 114850 787.00 17 93 26 84 26.88 77.65 0.000130 1.48 533.13 0.10 raymondville reach 2 114850 1264 00 17.93 28.70 28,75 0.000166 1,85 684.33 85.08 0.11 raymondviša reach 2 114850 1810 00 17.93 30.04 30.12 0.000218 2.26 803.21 141.20 0.13 raymondville reach 2 114850 6269 00 17.93 34.39 34.40 0.000050 1.34 12583,89 5264.93 0.07 114401 787 00 17 88 raymondville reach 2 26 7B 26.82 0.000130 1.44 545.07 82.90 0.10 raymondville reach 2 114401. 1264.00 17.88 28 63 28 68 0.000164 1.79 706.93 92.33 0.11 raymondville reach 2 114401. 1810.00 17.88 29.96 30.03 0.000213 2.17 833.81 99.02 0.13 raymondville reach 2 114401 6269 00 17.88 34.38 34.39 0.000026 0.98 16296.71 5184.22 0.05 113953. 787.00 17.84 raymondville reach 2 26.73 26.78 0.000135 1.42 554.55 89.29 0.10 raymondville 113953 reach 2 1264.00 17.84 28.56 28 61 0.000166 1.73 730.15 101.83 0.11 113953. raymondville reach 2 1810.00 17.84 29.87 29 94 0.000198 2.04 1129.48 1247.91 0.13 raymondville reach 2 113953 6269.00 17 84 34 38 34.38 0.000015 0.76 19707.32 5042.97 0.04 113504 17.79 raymondville reach 2 787.00 26.67 26.70 D 000145 1 40 563 98 98.56 0.10 raymondville reach 2 113504 1264.00 17.79 28 49 28 53 0.000159 1.63 940 55 992.65 0.11 raymondville 113504 1810.00 17.79 reach 2 29.85 29 87 0.000085 1 35 3260 48 2854 36 0.08 113504. raymondville each 2 6269.00 17,79 34.37 34.38 0.000010 0.61 22803.68 4883.94 0.03 raymondville 113056.\* 17.75 reach 2 787.00 26.61 0.000163 26.64 1.36 601.70 307.54 0.11 113056. raymondville 1264.00 reach 2 17.75 28.48 28.49 0.000064 1.04 2511.34 1707.79 0.07 raymondville 113056. 17.75 reach 2 1810.00 29.84 0.77 29.85 0.000027 5920 53 3158.13 0.05 raymondville reach 2 113056.\* 6269.00 17.75 34.37 34.37 0.000006 0.50 25574.71 4717.33 0.02 raymondville reach 2 112608 787.00 17.70 26.58 26.59 0.000083 0.97 1452.85 1161.18 0.08 raymondville 1264.00 17.70 28.47 28.47 4679.64 2444,49 0.000022 0.62 0.04 raymondville reach 2 112608 1810.00 17.70 29.83 29.83 0.000010 8581.92 3199,33 0.48 0.03 raymondville 112608 6269.00 34.37 34.37 28039.99 4547.80 0.000005 0.43 0.02 raymondville 112513. 787.00 17.69 26.55 reach 2 26.58 0.000151 644 53 360.56 0.10 raymondville reach 2 112513. 1264.00 17.69 28.45 28.46 0.000049 0.94 1842.74 2926.38 0.06 raymondville reach 2 112513.\* 1810.00 17.69 29.82 29.82 0.68 6717.32 3300.87 0.04 raymondville reach 2 112513.\* 6269.00 17.69 34.36 34.36 0.000006 0.48 27560.39 5179.79 0.02 raymondville reach 2 112419 787.00 17.69 26.54 26.57 0.000140 1.39 566.08 97.17 0.10 rzymondville reach 2 112419.\* 1264.00 17.69 28.43 28.46 0.000121 1.48 1380.81 1296,41 0.10 raymondville reach 2 112419. 1810 00 17.69 29.81 1.05 4675.87 3375.28 29.82 0.000048 0.06 raymondville reach 2 112419. 6269.00 17.69 34.36 27311.62 5453.20 34.36 0.000006 0.51 0.02 112324. raymondville reach 2 787.00 17.68 26 52 26 55 0.000133 1.43 548 91 85.97 0.10 raymondville reach 2 112324. 1264.00 17.68 28.41 28,46 0.000162 1 75 721.41 96.63 0.11 raymondville reach 2 112324. 1810.00 17.68 29.76 29.80 0.000134 1.76 2338 52 3352.67 0.11 raymondville reach 2 112324. 6269.00 17.68 34,35 34.35 0.000007 0.53 27093.96 5726.60 0.03 112230 raymondville reach 2 787.00 17.67 26.50 26 54 0.000134 1 49 527 18 77.34 0.10 raymondville reach 2 112230 1264.00 17.67 28.39 28 44 0.000169 1.86 679.85 84 87 0.12 112230 raymondville reach 2 1810,00 17.57 29.70 29.78 0.000224 2.28 794.81 90.13 0.14 raymondville mach 2 112230 6269.00 17.67 34.35 34.35 0.000008 0.55 26916.99 6000.00 0.03

110608

787.00

17.50

26.29

26.32

0.000137

1.50

523.67

77.16

0.10

raymondville

reach 2

HEC-PAS Plan- P 50% D (Continued)

| River                                 | Plan• P 50% D<br>Reach                      | River Sta        | Q Total           | Min Ch El      | W.S. Elev      | Crit W.S.   | E.G. Elev | E.G. Slope | Vel Chal    | Flow Area | Top Width    | Froude # Chil |
|---------------------------------------|---|------------------|-------------------|----------------|----------------|-------------|-----------|------------|-------------|-----------|--------------|---------------|
|                                       | That are                                    | The second of    | (cfs)             | (ft)           | (ft)           | (ft)        | (ft)      | (fl/ft)    | (fl/s)      | (sq.ft)   | (ft)         |               |
| raymondville                          | reach 2.                                    | 110808           | 1264.00           | 17.50          | 28.11          |             | 28.17     | 0.000175   | 1.88        | 671.06    | 84.45        | 0.12          |
| raymondville                          | reach 2                                     | 110608           | 1810.00           | 17.50          | 29.32          |             | 29.41     | 0.000239   | 2.33        | 776.02    | 89.29        | 0.14          |
| raymondville                          | reach 2                                     | 110608           | 6269.00           | 17.50          | 34.34          |             | 34.34     | 0.000008   | 0.56        | 26858.69  | 6000.00      | 0.03          |
| 1974 (32.0)                           | L 1985 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 315              |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 144530           | 201.00            | 21.30          | 32.28          |             | 32.28     | 0.000004   | 0.29        | 701.91    | 85.90        | 0.02          |
| reymondville                          | reach 3 (south)                             | 144530           | 343.00            | 21.30          | 34.50          |             | 34.50     | 0.000006   | 0.38        | 902.46    | 94.78        | 0.02          |
| raymondville                          | reach 3 (south)                             | 144530           | 528.00            | 21.30          | 36.56          |             | 36.56     | 0.000002   | 0.23        | 6508.89   | 3516.52      | 0.01          |
| raymondville                          | reach 3 (south)                             | 144530           | 1148.00           | 21.30          | 39.18          |             | 39.18     | 0.000001   | 0.17        | 15719.43  | 3516.52      | 0.01          |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Transfer of                                 | 444000           |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 144230           | 201.00<br>343.00  | 21.30          | 32.27          |             | 32.28     | 0.000004   | 0.29        | 701.81    | 85.90        | 0.02          |
|                                       | reach 3 (south)                             | <del></del>      |                   |                | 34.49          |             | 34.50     | 0.000006   | 0.38        | 902.30    | 94.78        | 0.02          |
| raymondville                          | reach 3 (south)                             | 144230           | 528.00            | 21.30          | 36.56          |             | 36.56     | 0.000002   | 0.23        | 6507.19   | 3516.52      | 0.01          |
| 1 AYTHORUS                            | reach 3 (south)                             | 144230           | 1148.00           | 21.30          | 39.18          |             | 39.18     | 0.000001   | 0,17        | 15718.71  | 3516.52      | 0.01          |
| raymondville                          | reach 3 (south)                             | 144030           | 201.00            | 26,10          | 32.23          | 27.56       | 32.27     | 0.000175   | 1.64        | 122.49    | 44.51        | 0.40          |
| raymondville                          | reach 3 (south)                             | 144030           | 343.00            | 26.10          | 34.42          | 28.19       | 34.49     | 0.000184   | 2.06        | 168,35    | 53.28        | 0.12          |
| raymondville                          | reach 3 (south)                             | 144030           | 528.00            | 26.10          | 35.44          | 28.88       | 36.55     |            | 2.55        | 208.83    | 61.38        | 0.13          |
| raymondville                          | reach 3 (south)                             | 144030           | 1148.00           | 26.10          | 39.11          | 30.77       | 39.17     | 0.000171   | 1.89        | 884.59    | 2554.83      | 0.12          |
| والمراجع المراجع                      |   | -                | 1,1222            |                |                |             |           | 0.000 (77) | 1.00        | 001.00    | 2554.65      | 0.12          |
| raymondviše                           | reach 3 (south)                             | 144020           | 201.00            | 26.10          | 32.23          | 27.56       | 32.27     | 0.000175   | 1.64        | 122.48    | 44.51        | 0.12          |
| raymondville                          | reach 3 (south)                             | 144020           | 343.00            | 26.10          | 34.42          | 28.19       | 34.4B     | 0.000184   | 2.06        | 166.31    | 53.27        | 0.12          |
| raymondville                          | reach 3 (south)                             | 144020           | 528.00            | 26,10          | 36.44          | 28.88       | 36.54     | 0.000211   | 2.55        | 206.78    | 61.37        | 0.14          |
| raymondville                          | reach 3 (south)                             | 144020           | 1148.00           | 26.10          | 39.11          | 30.78       | 39.17     | 0.000171   | . 1.90      | 880.73    | 2554.83      | 0.12          |
| the state of                          | of the difference of                        | 1131111          |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 144005           | Culvert           |                |                |             |           |            |             |           |              |               |
|                                       | to my You to the second                     | 1 1              |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 143990           | 201.00            | 26.10          | 31.94          | 27.56       | 31.98     | 0.000206   | 1.72        | 116.67    | 43.35        | 0.13          |
| raymondville                          | reach 3 (south)                             | 143990           | 343.00            | 26.10          | 33.75          | 28.19       | 33.83     | 0.000243   | 2.24        | 152.94    | 50.60        | 0.14          |
| raymondville                          | reach 3 (south)                             | 143990           | 528.00            | 26.10          | 34.80          | 28.88       | 34.95     | 0.000374   | 3.03        | 173.99    | 54.81        | 0.18          |
| raymondville                          | reach 3 (south)                             | 143990           | 1148.00           | 26.10          | 35.97          | 30.78       | 36.49     | 0.001184   | 5.82        | 197.31    | 59.48        | 0.33          |
| 30, 4, 4, 7, 4                        |   |                  |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 143980           | 201.00            | 26.10          | 31.95          |             | 31.97     | 0.000133   | 1.08        | 185.39    | 43.39        | 0.09          |
| raymondville                          | reach 3 (south)                             | 143980           | 343.00            | 26.10          | 33.77          |             | 33.80     | 0.000136   | 1.26        | 271.30    | 50.70        | 0.10          |
| raymondville                          | reach 3 (south)                             | 143980           | 528.00            | 26.10          | 34.85          |             | 34.89     | 0.000191   | 1.61        | 328.21    | 55.01        | 0.12          |
| raymondville                          | reach 3 (south)                             | 143980           | 1148.00           | 26.10          | 36.16          |             | 35.29     | 0.000513   | 2.84        | 403.69    | 60.25        | 0.19          |
|                                       |   | 444000           | 204.00            | 25.00          | 24.07          |             | 71.00     | 0.00400    |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 141900           | 201.00            | 25.82          | 31.57          |             | 31.69     | 0.000133   | 1.08        | 185.51    | 43.41        | 0.09          |
| raymondville                          | reach 3 (south)                             | 141900           | 343.00            | 25.82          | 33.49          |             | 33.52     | 0.000136   | 1.26        | 271.18    | 50.69        | 0.10          |
| raymondville                          | reach 3 (south)                             | 141900           | 528.00<br>1148.00 | 25.82<br>25.82 | 34.63<br>36.14 |             | 34.64     | 0.000080   | 1.08        | 2349.18   | 4003.38      | 0.08          |
| raymondville                          | reach 3 (south)                             | 171500           | 1140.00           | 25.62          | 30.14          |             | 36.14     | 0.000019   | 0.61        | 10068.07  | 5795.82      | 0.04          |
| raymondville                          | reach 3 (south)                             | 140581           | 201.00            | 25.65          | 31.50          |             | 31.52     | 0.000133   | 1.08        | 185.60    | 43,41        | 0.09          |
| raymondville                          | reach 3 (south)                             | 140581           | 343.00            | 25.65          | 33.32          |             | 33.35     | 0.000131   | 1.24        | 379.03    | 714.63       | 0.09          |
| raymondville                          | reach 3 (south)                             | 140581           | 528.00            | 25.65          | 34.56          |             | 34.56     | 0.000051   | 0.87        | 2777.10   | 3163.12      |               |
| raymondville                          | reach 3 (south)                             | 140581           | 1148.00           | 25.65          | 36.11          |             | 36.11     | 0.000018   | 0.59        | 9638.91   | 5412.82      | 0.04          |
| 7 7 1                                 |   | ,                |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 139474           | 201.00            | 25.51          | 31.36          |             | 31.37     | 0.000134   | 1.08        | 185.27    | 43.38        | 0.09          |
| raymondville                          | reach 3 (south)                             | 139474           | 343.00            | 25.51          | 33.18          |             | 33.20     | 0.000135   | 1.26        | 302.09    | 406.32       | 0.10          |
| raymondville -:                       | reach 3 (south)                             | 139474           | 528.00            | 25.51          | 34.49          |             | 34.49     | 0.000057   | 0.91        | 2549.30   | 3011.65      | 0.08          |
| raymondville                          | reach 3 (south)                             | 139474           | 1148.00           | 25.51          | 36.09          |             | 36.09     | 0.000019   | 0.60        | 9488.58   | 5381.92      | 0.04          |
| 2 11 2 22 9                           | TOTAL A SEC. O                              | 1 1              |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 138076           | 201.00            | 25.32          | 31.16          |             | 31.18     |            | 1.09        | 184.99    | 43.38        | 0.09          |
| raymondville                          | reach 3 (south)                             | 138076           | 343.00            | 25.32          | 32.97          |             | 33.00     |            | 1.27        | 270.13    | 50.61        | 0.10          |
| raymondville                          | reach 3 (south)                             | 138076           | 528.00            | 25.32          | 34.39          |             | 34.40     |            | 0.97        | 2277.27   | 2815.14      | 0.07          |
| raymondville                          | reach 3 (south)                             | 138078           | 1148.00           | 25.32          | 36.05          |             | 36.05     | 0.000019   | 0.62        | 9287.17   | 5338.41      | 0.04          |
| recorded the                          | AT BANK TO BUT                              | 420000           | 204.00            | 26.71          | 30.96          |             | 30.98     | 0.0004==   | - 100       | 1015      | 15.55        |               |
| raymondville                          | reach 3 (south)                             | 138026<br>138026 | 201.00<br>343.00  | 25.14<br>25.14 |                | <del></del> | 30.98     |            | 1.09        |           | 43.29        |               |
| rzymondville                          | reach 3 (south)                             | 138026           | 528.00            | 25.14          |                |             | 34.30     |            | 1.28        |           |              |               |
| raymondville                          | reach 3 (south)                             | 138028           | 1148.00           | 25.14          |                |             | 36.01     |            |             |           |              |               |
| y                                     | reach a (account)                           |                  |                   | 20,17          | 30.01          |             | - 30.01   | 3.550020   | 0.00        | 5555.50   | VE 80,80     | 0.04          |
| rzymondville                          | reach 3 (south)                             | 136620           | 201.00            | 24.96          | 30.77          |             | 30.79     | 0.000137   | 1,10        | 183.52    | 43.21        | 0.09          |
| raymondville                          | reach 3 (south)                             | 138620           | 343.00            | 24.98          |                |             | 32.59     |            | 1.28        |           |              |               |
| raymondville                          | reach 3 (south)                             | 136820           | 528.00            | 24.96          |                |             | 34.18     |            | 1.18        |           | <del></del>  |               |
| raymondville                          | reach 3 (south)                             | 138820           | 1148.00           | 24.96          |                |             | 35.98     |            |             | 7937.00   |              |               |
|                                       | 1. 191.01                                   |                  |                   |                |                |             |           |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 135048           | 201.00            | 24.75          |                |             | 30.58     |            |             |           | <del>+</del> |               |
| raymondville                          | reach 3 (south)                             | 135048           | 343.00            | 24.75          |                |             | 32.37     | ·          |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 135048           | 528.00            | 24.75          |                |             | 34.02     |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 135048           | 1148.00           | 24.75          | 35.93          |             | 35.93     | 0.000036   | 0.83        | 6296.46   | 3959.02      | 0.05          |
|                                       |   | 1,000            |                   |                |                |             |           |            |             |           | 1            |               |
| raymondville                          | reach 3 (south)                             | 133745           | 201.00            | 24.58          |                |             | 30.39     |            | <del></del> |           |              |               |
| raymondville                          | reach 3 (south)                             | 133745           | 343.00            |                |                |             | 32.18     |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 133745           | 528.00            | 24.58          |                |             | 33.86     |            |             |           |              |               |
| raymondville                          | reach 3 (south)                             | 133745           | 1148.00           | 24.58          | 35.88          |             | 35.88     | 0.000038   | 0.85        | 6107.17   | 3898.12      | 0.0           |
|                                       |   | I                |                   |                |                |             |           | -          |             | <b></b>   | 1            |               |
| rmmont-it-                            | reach 2 (equility                           | 132244           | 201.00            | 24 20          | 20.46          |             | 20 47     | 0.000144   | 1 1 1 1 1   | 10174     | 42.05        |               |
| raymondville                          | reach 3 (south)                             | 132244           | 201.00<br>343.00  | <del></del>    |                | <del></del> | 30.17     | +          | 1.11        |           |              |               |

HEC-RAS Plan. P 50% D (Continued) Crit W.S. E.G. Elev E.G. Slope Reach River Sta Q Total Min Ch El W.S. Elev Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft): (fVft) (ft/s) (\$Q ft) **(ft)** raymondville 5067.66 reach 3 (south) 132244 1148.00 24.39 35.63 35.83 0.000034 0.82 0.05 raymondville reach 3 (south) 130592 201.00 24 17 29 93 29.95 0.000142 1.11 181.39 43.02 0.10 raymondville reach 3 (south) 130592 343.00 24.17 31.70 31.73 0.000146 1.30 264.05 50.12 0.10 reach 3 (south) raymondville 130592 528.00 24.17 33 3B 33.41 0.000156 1.49 353.73 56.83 0.11 raymondville reach 3 (south) 130592 1148,00 24.17 35.79 0.000020 0.65 10069.91 35.79 6500.00 0.04 raymondville reach 3 (south) 129120 201.00 23,98 29.72 29.74 0.000144 1.11 180.53 42.94 0.10 raymondville reach 3 (south) 129120 343.00 23.98 31.48 31.51 0.000148 1.31 262.71 50.02 0.10 aymondville reach 3 (south) 129120 528.00 23.98 33.14 33.18 0.000159 1.50 351.28 56.66 0.11 raymondville 1148.00 reach 3 (south) 129120 23.98 35.77 35.77 0.000020 0.66 9934.56 6500.00 0.04 raymondville reach 3 (south) 127694 201.00 23.79 29.51 29.53 0.000146 1.12 179.68 42.86 0.10 raymondville reach 3 (south) 127694 343.00 23,79 31.27 31.29 0.000150 1.31 261.36 49.91 0.10 raymondville reach 3 (south) 127694 528.00 23.79 32.91 32.95 0.000162 1.51 348.83 56.49 D.11 aymondville reach 3 (south) 127694 1148.00 23.79 35.75 35.75 0.000021 0.67 9799.36 6500.00 0.04 reach 3 (south) 128200 201.00 23.60 29.29 29 31 0.00014 1.13 178.42 42.75 raymondville 0.10 raymondville reach 3 (south) 126200 343 00 23,60 31.04 31.07 0.000153 1.32 259.53 49.76 0.10 reach 3 (south) 126200 528.00 23 60 32.67 32.70 0.000166 1.53 345.76 56.27 0.11 aymondville ntymondville reach 3 (south) 126200 1148.00 23.60 35.73 35.73 0.000021 0.68 9664.30 6500.00 0.04 raymondville reach 3 (south) 128152 201.00 23 59 29 28 29.30 0.000148 1.13 178 53 42 7R 0.10 raymondville reach 3 (south) 126152 343.00 23.59 31.03 31.06 0.000153 1.32 259 65 49 77 0.10 raymondville reach 3 (south) 128152 528 00 23.59 32 66 32 69 0.000165 1.53 345.86 56 27 0.11 raymondville reach 3 (south) 126152 1148.00 23.59 35.72 35.73 0.000021 0.68 9658.00 6500.00 0.04 raymondville reach 3 (south) 124435 201.00 23.37 29.02 29 04 0.000152 1 14 176 90 42 61 0.10 raymondville reach 3 (south) 124435 343.00 23.37 30.77 30.79 0.000157 1.33 257.33 49.58 D.10 raymondville reach 3 (south) 124435 528 00 23.37 32 37 32 41 0.000171 1 54 341.96 56.00 0.11 raymondville reach 3 (south) 124435 1148.00 23.37 35.69 35.69 0.000022 0.70 9430.25 6500.00 0.04 123138 201.00 0.000155 175.65 raymondville reach 3 (south) 23.20 28.82 28.84 1.14 42.49 0.10 raymondville reach 3 (south) 123138 343.00 23.20 30.56 30.59 0.000160 1.34 255,56 49.44 0.10 raymondville reach 3 (south) 123138 528 00 23.20 32.14 32.18 0.000175 1.56 338.90 55.78 0.11 raymondville reach 3 (south) 123138 1148.00 23.20 35.65 35.65 0.000023 0.72 9199.52 6500.00 0.04 raymondville reach 3 (south) 121629 201.00 23.01 28.58 28.60 0.000161 1.16 173.29 42.27 0.10 raymondville reach 3 (south) 121829 343 00 23.01 30 31 30.34 0.000165 1.36 252 51 49 19 0.11 raymondville reach 3 (south) 121829 528 00 23 01 31 87 31.90 0.000182 1 58 333.97 55 42 0 11 raymondville reach 3 (south) 121629 1148.00 23.01 35.61 35.62 0.000024 0.74 8970.19 6500.00 0.04 raymondville reach 3 (south) 120128 201.00 22.81 28.33 28.35 0.000166 1.17 171.37 42.08 0.10 reach 3 (south) raymondville 120128 343 00 22 81 30.06 30.09 0.000170 1 37 249 96 48 99 0 11 raymondville reach 3 (south) 120128 528 00 22.81 31.59 31.63 0.000189 1.60 329.61 55.11 0.12 raymondville reach 3 (south) 120128 1148.00 22.81 35.58 35.58 0.000025 0.76 8741.66 6500,00 0.04 raymondville reach 3 (south) 120078 201.00 22.80 28.32 28.34 0.000166 1.17 171.44 42.09 0.10 raymondville reach 3 (south) 120078 343.00 22.80 30.05 30 08 0.000170 1.37 250.03 48.99 0.11 raymondville reach 3 (south) 120078 528.00 22.80 31.58 31.62 0.000189 1.60 329,64 55.11 0.12 raymondville 6500.00 reach 3 (south) 120078 1148.00 22.80 35 57 35.58 0.000025 0.76 8734.05 0.04 118101 201.00 22.55 27.98 28.00 0.000177 1.20 167.65 41.73 0.11 raymondville reach 3 (south) 0.000179 245.30 48.60 raymondville reach 3 (south) 118101 343.00 22.55 29.70 29.73 1.40 0.11 raymondville 54.56 reach 3 (south) 118101 528.00 22.55 31.19 31.23 0.000201 1.64 322.06 0.12 6500.00 0.000027 0.79 8413.48 raymondville reach 3 (south) 118101 1148.00 22.55 35.52 35.53 0.05 118051 201.00 0.000176 167.70 41.73 raymondville reach 3 (south) 22.54 27.97 28.00 1.20 0.11 raymondville 22.54 29.72 0.000179 1.40 245.35 48.61 0.11 reach 3 (south) 118051 343.00 29.69 118051 528.00 22.54 31,18 31.22 0.000201 1.64 322,06 54.56 0.12 raymondville reach 3 (south) 0.000027 0.79 8344.09 6500.00 1148.00 22.54 35.52 0.05 raymondville reach 3 (south) 118051 35.51 27.77 41.50 0.11 22.39 27.79 0.000184 165.31 116902 201.00 1.22 raymondvitte reach 3 (south) 242.45 48.37 0.11 0,000185 1.41 116902 343.00 29.48 29.51 raymondville reach 3 (south) 22.39 1.66 317.32 54.21 30.94 0.000209 0.12 116902 528.00 22.39 30.99 raymondville reach 3 (south) 6500.00 0.05 raymondville reach 3 (south) 116902 1148.00 22.39 35.48 35.48 0.000028 0.81 8145.38 27.37 40.95 0.11 114860 201.00 22.13 27.39 0.000202 1.26 ravmondville reach 3 (south) 0.000198 1.45 236.58 47.88 0.11 raymondville reach 3 (south) 114860 343.00 22,13 29.10 29.13 114860 30.49 30.54 0.000229 1.72 307.23 53.46 0.13 528.00 22,13 raymondville reach 3 (south) 2554.83 35.41 0.000053 4083.30 0.06 114860 1148.00 35,40 1.11 raymondville reach 3 (south) 22.13 27.00 0.000225 1.31 153.64 40.38 0.12 113007 21.88 26.97 201.00 raymondville reach 3 (south) 21.88 28.72 28.75 0.000213 1.49 230.29 47.35 0.12 113007 343.00 raymondville reach 3 (south) 528.00 0.000251 1.78 296.74 52.67 0.13 21.88 30.05 30,10 raymondville reach 3 (south) 113007 0.000155 1.83 805.82 1017.57 0.11 raymondville reach 3 (south) 113007 1148,00 21.88 35.20 35.25 39.95 112058 201.00 21.76 26,75 26.78 0.000243 1.34 149.48 0.12 raymondville reach 3 (south) 112058 343.00 21.76 28.51 28.55 0.000224 1.52 47.00 0.12 raymondville reach 3 (south)

HEC-RAS Plan- P 50% D (Continued)

| HEC-RAS<br>River             | Plan P 50% D<br>Reach  | River Sta | ed)<br>Q Total     | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vei Chni     | Flow Area         | 7 1854h         |              |
|------------------------------|--|-----------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|-------------------|-----------------|--------------|
| 7                            | 7.10.00  |           | (cfs)              | (ft)           | (ft)           | (ft)           | (ft)           | (ft/ft)    | (ft/s)       | (sq.fi)           | Top Width       | Froude # Chi |
| raymondville                 | reach 3 (south)  | 112058    | 528.00             | 21.76          | 29.80          |                | 29.85          | 0.000268   | 1.82         | 290.01            | 52.15           | 0.14         |
| raymondville                 | reach 3 (south)  | 112058    | 1148.00            | 21.76          | 35.04          |                | 35.10          | 0.000161   | 1.85         | 663.58            | 1085.61         | 0.11         |
|                              |  |           |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 3 (south)  | 112008    | 201.00             | 21.75          | 26.73          |                | 26.76          | 0.000244   | 1.35         | 149.38            | 39.94           | 0.12         |
| raymondville                 | reach 3 (south)  | 112008    | 343.00<br>528.00   | 21.75          | 28.50          |                | 28.53          | 0.000224   | 1.52         | 226.05            | 46.99           | 0.12         |
| raymondville                 | reach 3 (south)  | 112008    | 1148.00            | 21.75<br>21.75 | 29.78<br>35.04 |                | 29.84<br>35.09 | 0.000268   | 1.82         | 289.81            | 52.14           | 0.14         |
| 100                          | A636964A   | 112000    | 7140.00            | 21.73          | 33.04          |                | 33.09          | 0.000161   | 1.85         | 656.03            | 1085.61         | 0.11         |
| raymondville                 | reach 3 (south)  | 110270    | 201.00             | 21.53          | 26.27          |                | 26.30          | 0.000295   | 1.44         | 139.54            | 38.94           | 0.13         |
| raymondville                 | reach 3 (south)  | 110270    | 343.00             | 21.53          | 28.08          |                | 28.12          | 0.000251   | 1.58         | 216.94            | 46.21           | 0.13         |
| raymondville                 | reach 3 (south)  | 110270    | 528.00             | 21.53          | 29.28          |                | 29.34          | 0.000310   | 1.92         | 275.05            | 50.99           | 0.15         |
| raymondville                 | reach 3 (south)  | 110270    | 1148.00            | 21.53          | 34.75          |                | 34.81          | 0.000165   | 1.87         | 614.08            | 72.89           | 0.11         |
|                              |  | *****     |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 1  | 109185    | 907.00             | 17.51<br>17.51 | 26.09          |                | 26.12          | 0.000143   | 1.53         | 592.51            | 88.35           | 0.10         |
| raymondville                 | reach 1  | 109185    | 1991.00            | 17.51          | 27.86<br>28.98 |                | 27.91<br>29.06 | 0.000178   | 1.90<br>2.30 | 755.26            | 95.44           | 0.12         |
| raymondville                 | reach 1  | 109185    | 6391.00            | 17.51          | 33.95          |                | 34.27          | 0.000603   | 4.53         | 865.22<br>1411.30 | 99.94<br>119.82 | 0.14<br>0.23 |
| 4.4                          |  | F1.50     |                    |                |                |                | 37.21          | 5.00000    | 7.50         | 1411.50           | 115.02          | 0.23         |
| raymondville                 | reach 1  | 109050    | 907.00             | 17.49          | 26.07          |                | 26.10          | 0.000142   | 1.53         | 592.58            | 88.36           | 0.10         |
| raymondville                 | reach 1  | 109050    | 1437.00            | 17.49          | 27.83          |                | 27.89          | 0.000178   | 1.90         | 754.87            | 95.42           | 0.12         |
| raymondville                 | reach 1  | 109050    | 1991.00            | 17.49          | 28.95          |                | 29.03          | 0.000232   | 2.30         | 864.06            | 99.89           | 0.14         |
| raymondville                 | reach 1  | 109050    | 6391.00            | 17.49          | 33.87          |                | 34.19          | 0.000612   | 4.55         | 1403.41           | 119.55          | 0.23         |
| raymondville                 | reach 1  | 108145    | 907.00             | 17.35          | 26.01          |                | 20.04          | 0.0004.53  |              | ****              |                 |              |
| raymondville                 | reach t  | 108145    | 1437.00            | 17.35          | 26.01          |                | 26.04<br>27.82 | 0.000137   | 1.51         | 599.92<br>761.33  | 88,69<br>95,69  | 0.10         |
| raymondville                 | reach 1  | 108145    | 1991.00            | 17.35          | 28.85          |                | 28.94          | 0.000174   | 2.29         | 868.43            | 100.07          | 0.12<br>0.14 |
| raymondville                 | reach 1  | 108145    | 6391.00            | 17.35          | 33.73          |                | 33.91          | 0.000223   | 3.68         | 3452.55           | 2916.87         | 0.14         |
|                              |  |           |                    |                |                |                |                |            |              |                   |                 | - 5.21       |
| reymondville                 | reach 1  | 107740    | 907.00             | 17.35          | 25,95          |                | 25.99          | 0.000141   | 1.52         | 594.87            | 88.46           | 0.10         |
| raymondville                 | reach 1  | 107740    | 1437.00            | 17.35          | 27.69          |                | 27.74          | 0.000178   | 1.90         | 754.41            | 95.40           | 0.12         |
| raymondville                 | reach 1  | 107740    | 1991.00            | 17.35          | 28.76          |                | 28.84          | 0.000237   | 2.32         | 858.81            | 99.68           | 0.14         |
| raymondville                 | reach 1  | 107740    | 6391.00            | 17.35          | 33.38          |                | 33.64          | 0.000742   | 4.28         | 2445.13           | 2768.45         | 0.25         |
| raymondville                 | reach t  | 108578    | 907.00             | 17.16          | 25.79          | 19.46          | 25.83          | 0.000139   | 1.52         | 597.30            | 88.57           | 0.10         |
| raymondville                 | reach 1  | 108578    | 1437.00            | 17.16          | 27.48          | 20.15          | 27.54          | 0.000180   | 1.91         | 752.68            | 95,33           | 0.10         |
| raymondville                 | reach 1  | 106578    | 1991.00            | 17.16          | 28.48          | 20.77          | 28.56          | 0.000244   | 2.34         | 849.80            | 99.32           | 0.14         |
| raymondville                 | reach 1  | 106578    | 6391.00            | 17.16          | 32.68          | 24.30          | 32,85          | 0.000586   | 3.69         | 3683.49           | 3335.41         | 0.22         |
|                              |  |           |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 1  | 106370    | 907.00             | 17.13          | 25.76          | 19.43          | 25,80          | 0.000136   | 1.50         | 608.30            | 90.80           | 0.10         |
| raymondville                 | reach 1  | 106370    | 1437.00            | 17.13          | 27.44          | 20.11          | 27.50          | 0.000175   | 1.88         | 765.11            | 98.01           | 0.12         |
| raymondville<br>raymondville | reach 1  | 106370    | 1991.00<br>6391.00 | 17.13<br>17.13 | 28.43<br>32.52 | 20.73          | 28.51<br>32.71 | 0.000239   | 2.31<br>3.92 | 863.76            | 102.23          | 0.14         |
| JANGAROUS                    | 7,12,1   | 1,000,0   | 0331.00            |                | J2.J2          | 27.21          | 32.11          | 0.000665   | 3.92         | 3188,22           | 3001.19         | 0.23         |
| raymondville                 | reach-1  | 105922.*  | 907.00             | 17.06          | 25.70          | 19.36          | 25.74          | 0.000137   | 1.50         | 604.70            | 90.25           | 0.10         |
| raymondville                 | reach t  | 105922.*  | 1437.00            | 17.06          | 27.36          | 20.04          | 27.42          | 0.000177   | 1.89         | 760.47            | 97.25           | 0.12         |
| raymondviile                 | reach t  | 105922.*  | 1991.00            | 17.06          | 28.31          | 20.66          | 28.40          | 0.000244   | 2.33         | 854.76            | 101.25          | 0.14         |
| raymondville                 | reach 1  | 105922.*  | 6391.00            | 17.06          | 31.89          | 24.21          | 32,30          | 0.001214   | 5.10         | 1253.09           | 153,41          | 0.31         |
|                              | 3 (27) (3 (1 ) 3 (2 ) 3 (3 ) 3 | 405474.5  |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville<br>raymondville | reach 1  | 105474.*  | 907.00             | 16.99<br>16.99 | 25.64<br>27.28 | 19.29<br>19.97 | 25.67          | 0.000137   | 1.50         | 603.25            | 89.72           | 0.10         |
| raymondville                 | reach 1  | 105474.*  | 1991.00            | 16.99          | 28.19          | 20.59          | 27.34<br>28.28 | 0.000179   | 1.90         | 756.03<br>848.05  | 96.51<br>100.30 | 0.12         |
| raymondville                 | reach 1  | 105474.*  | 6391.00            | 16.99          | 31.35          | 24.14          | 31,80          | 0.001036   | 5.39         | 1184.84           | 117.34          | 0.14         |
| 16.5                         | William Co.  |           |                    |                |                |                | <u> </u>       | 2.30,000   | 0.00         | .,,,,,,           | 117.54          | 0.30         |
| raymondville                 | reach 1  | 105026.*  | 907.00             | 16.91          | 25.58          | 19.21          | 25.61          | 0.000136   | 1.51         | 602.63            | 89.24           | 0.10         |
| raymondville                 | reach 1  | 105026.*  | 1437.00            | 16.91          | 27.20          | 19.89          | 27.25          | 0.000161   | 1.91         | 752.53            | 95.83           | 0.12         |
| raymondville                 | reach 1  | 105026.*  | 1991.00            | 16.91          | 28.08          | 20.51          | 28.16          | 0.000255   | 2.37         | 835.38            | 99.40           | 0.14         |
| raymondville                 | reach 1  | 105028.*  | 6391.00            | 15.91          | 30.80          | 24.07          | 31,30          | 0.001176   | 5.69         | 1124.11           | 112.81          | 0.32         |
| raymondville                 | reach 1  | 104578    | 907.00             | 16.84          | 25.52          | 19.14          | 25.55          | 0.000136   | 1.51         | 601.46            | 99.70           | 0.10         |
| raymondville                 | reach 1  | 104578    | 1437.00            | 16.84          | 27.12          | 19.83          | 25.55          | 0.000136   | 1.51         | 748.52            | 88.76<br>95.15  | 0.10<br>0.12 |
| raymondville                 | reach 1  | 104578    | 1991.00            | 16.84          | 27.96          | 20.44          | 28.05          | 0.000260   | 2.40         | 830.27            | 98.53           | 0.12         |
| raymondville                 | reach f  | 104578    | 6391.00            | 16.84          | 30.16          | 24.00          | 30.73          | 0.001356   | 6.05         | 1056.56           |                 | 0.34         |
| 4                            |  |           |                    |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach f  | 102128    | 907.00             | 16.43          | 25.11          |                | 25,15          | 0.000204   | 1.49         | 637.77            | 416.07          | 0.12         |
| raymondville                 | reach.1  | 102128    | 1437.00            | 16.43          | 26.80          |                | 26.82          | 0.000110   | 1.33         | 1880.09           | 1113.10         | 0.09         |
| raymondville<br>raymondville | reach 1  | 102128    | 1991.00            | 16.43          | 27.66          |                | 27.68          | 0.000088   | 1.30         |                   |                 |              |
| , a yrrionalyllio            | TOBGE ( ) E  | 102 126   | 6391.00            | 16,43          | 29.79          |                | 29.81          | 0.000132   | 1.88         | 8441.27           | 3448.42         | 0.11         |
| raymondville                 | reach 1  | 100615    | 907.00             | 16.19          | 24.89          | 18.48          | 24.92          | 0.000118   | 1.36         | 567.00            | 104.73          | 0.09         |
| raymondville                 | reach 1  | 100615    | 1437.00            | 16.19          | 26.65          | 19.15          | 26.67          | 0.000087   | 1.37         | 1787.88           |                 | 0.09         |
| raymondville                 | reach 1  | 100615    | 1991.00            | 16.19          | 27.53          | 19.75          | 27.56          | 0.000079   | 1.40         | 3023.18           |                 | <del></del>  |
| raymondville                 | reach 1  | 100615    | 6391.00            | 16.19          | 29.61          | 23.11          | 29.63          | 0.000111   | 1.90         | 8967.18           |                 | 0.10         |
|                              |  |           | <u> </u>           |                |                |                |                |            |              |                   |                 |              |
| raymondville                 | reach 1  | 100117    | 907.00             | 16.10          | 24.82          | 18.40          | 24.85          | 0.000134   | 1,50         | 605,12            |                 | 0.10         |
| raymondville                 | reach 1  | 100117    | 1437.00            | 16.10          | 26.60          | 19.08          | 26,62          |            | 1.42         | 1617.46           |                 |              |
| raymondville                 | reach 1  | 100117    | 1991.00            | 16.10<br>16.10 | 27.48          | 19.70          | 27.50          |            | 1.44         | 2550.83           |                 |              |
| (A)IRAIGAINB                 | reach 1  | 100117    | 6391.00            | 10.10          | 29.54          | 23.26          | 29.56          | 0.000139   | 1.92         | 10012.96          | 6000.00         | 0.11         |
| raymondville                 | reach 1  | 98117     | 907.00             | 15.78          | 24.56          |                | 24.60          | 0.000131   | 1.49         | 610,77            | 89.18           | 0.10         |
|                              | 1.7-41.1   | 122       | 1 307.00           | 13.70          | 47.30          |                | 27.00          | 0.000131   | 1.49         | , 010.77          | U 05.10         | 0.10         |

| Econge # CPI       | Top Width            | Flow Area            | Vet Chril       | E.G. Slope             | E'G' Elev      |  |                |                |                    |                   | 2016年,南京大学,在1915年的1926年了,大型四百万年,1918年的 |  |
|--------------------|----------------------|----------------------|-----------------|------------------------|----------------|--|----------------|----------------|--------------------|-------------------|--|--|
| A 5 10 10 10 10 10 | (11)                 | (u bs)               | (s/J)           | (11/11)                | (n)            | (a)  | (3)            | (H)            | (cgs)              |                   | 555 15 KI DAM                          | ###################################### |
| 90.0               | 3526.46              | 77.808.77            | 18.0            | 040000.0               | 56 49          |  | 84.82          | 87.21          | 00.7541            | £1186             | î ribeen                               | eliybnomys                             |
| ¥0.0               | 63,0954              | 87.67 <u>28</u>      | 09.0            | 810000.0               | SA.72          |  | 24.7S          | 87.21          | 00.1981            | 71186<br>71186    | Leach 1                                | eläybnomys:<br>eläybnomys:             |
| <b>≯</b> 0.0       | 96'61'55             | 89.72881             | 21.0            | 120000.0               | 74.62          |  | 74.62          | 87.21          | 00.1666            | /1108             | The second                             | ellivbnomysi                           |
| 01.0               | 74.68                | ₩.718                | 24.1            | 7S1000.0               | PE PZ          |  | 24.30          | 24.21          | 00'206             | 21198             | i haeen                                | allivanomys                            |
| 01.0               | 78.06B1              | 1909.02              | 1.33            | 0.000139               | SE.82          |  | 26.33          | SÞ.81          | 1437.00            | 71198             | , upeeu                                | ellivbromys                            |
| 70.0               | 3586.25              | 96.7334              | 80.1            | 880000.0               | 27.36<br>58.95 | <del> </del>                                     | 22.35          | 24.21          | 00.1661            | Z1196             | f floser                               | ellivbromys:<br>ellivbromys:           |
| 70.0               | 16.3433              | ₱0.0£₹£1             | 80.1            | 150000.0               | ZÞ.62          |  | 14.62          | 24.21          | 00.1668            | 71196             | f ribert                               | - Alivonomys                           |
| 60'0               | 116.54               | 731.46               | 1.24            | 660000.0               | 24.25          |  | 24.22          | 15.32          | 00.708             | 14698             | Libser                                 | alivbnomysn                            |
| 60.0               | 18.898.81            | 24.642f              | SE.1            | 801000.C               | 56.25          |  | 26.23          | 15.32          | 00.7EA1            | 19098             | 1 daea                                 | 98IADUOUVE                             |
| 80.0               | 3264.73              | 13,818.51            | 1.23            | 970000.0               | 16.72          | <del> </del>                                     | 82.7 <u>S</u>  | 15.32          | 00.1961            | 19696             | 1 riosen                               | #Blybromys:                            |
| 20.0               | 80.1788              | E0.190E1             | 1.28            | 090000.0               | 75.62          |  | 98.62          | 26.81          | 00.1968            | 114698            | 1 mach 1                               | ##WDUOUUŚRJ                            |
| 01.0               | 06.68                | 626.93               | SP.1            | 121000.0               | 11.45          |  | 80.4.08        | 15.12          | 00.708             | 21176             | l ricean                               | ellivbnomysi                           |
| 11.0               | 59.1 <del>1</del> 66 | 1156.26              | 1.62            | 481000.0               | 50.85          |  | 26.05          | 21.21          | 00.7541            | 21116             | f finam                                | • Mybnoriys:                           |
| 01.0               | 27.660S              | 71,7082              | 78.1            | 0.000124               | 81.7 <u>5</u>  | <del> </del>                                     | 81.72          | SI.21          | 1991.00            | 21198             | 1 ribsen                               | elivbromys                             |
| 21.0               | 28.8812              | ₽£.180e              | 2.04            | 281000.0               | 92'62          | <del>                                     </del> | 29.23          | 51.21          | 00.1658            |                   | 1 ibeei                                | <b>əliybnonys</b> ı                    |
| 60.0               | 82.08                | 635.60               | EÞ.1            | at 1000.0              | 83.88          | 60.71  | 23.85          | 67.41          | 00.709             | 11128             | 1 daen                                 | eliybnomysi                            |
| 0.12               | 332:00               | 928.09               | 07.1            | 281000.0               | <b>₽</b> £'\$Z | BLIL   | 07.2S          | 67.41          | 1437.00            | 71128             | 1 lipsei                               | BAINORIGAIRE                           |
| St.0               | 81.878               | 1542.43              | 08.f<br>85.£    | 801000.0               | 98.8S<br>97.8S | 18,39  | 28.85          | 67.41<br>67.41 | 00.1991.00         | 71126<br>92117    | I ribeer                               | ellivbromys:<br>ellivbromys:           |
| 61.0               | 2135.48              | 11.88S.A             | 3.25            | 80+000.0               | 97.8S          | 21.95  | 00.02          | 67.PI          | 00.1600            |                   | ] upseu                                | BIIIVDUOULKE                           |
| 60.0               | 17.06                | 645.22               | 14.1            | 111000.0               | 23.64          |  | 19.65          | Stol           | 00.706             | £9006             | î daşen                                | ellivbnom/s                            |
| \$1.0              | 34.124<br>52.2505    | 87.868               | 27.1            | 902000.0               | 25.34          | <del> </del>                                     | 25.29          | 5771           | 1991 00            | 29006<br>29006    | † riosen                               | ellivbriomys:                          |
| 11.0               | 28.870S<br>76.638A   | 2343.84              | 1.64            | 21-1000.0<br>27-1000.0 | 28.57          | <del> </del>                                     | 26.54          | 54.41<br>54.41 | 00.1991            | 29006<br>29006    | T ribsen<br>T ribsen                   | eliivbnomys:                           |
| 21.0               | 7E.E384              | 21.8348              | 60.2            | C11000.0               | <b>₽</b> Z:8Z  |  | 17.07          | Ch'hl          | 00:1800            | 10000             | Linda                                  | DHAP-MAIL!                             |
| 60'0               | 69'06                | 58.44.82             | 14.1            | 211000.0               | P9.62          |  | 19.62          | 34.41          | 00.708             | 81006             | f ribser                               | ellivbromys                            |
| 21.0               | 28.644               | E0'969               | 87.1            | T02000.0               | 25.25<br>52.33 | <del> </del>                                     | 26.29          | SPPI           | 00.7541            | 81008             | 1 dosen                                | elivbromys                             |
| 11.0               | 88.5884<br>88.5884   | 2329.39<br>8429.00   | 1.65            | 851000.0               | 78.82<br>ES.83 |  | 26.53          | SP. PI         | 00.1991            | 81006             | f ribaen 1                             | edivbriomys:                           |
| 21.0               | 00'7004              | 00.62+0              | 01:7            | 0.11.000.0             | 07'0"          | ļ  | 07'07          |                |                    | 4.4               |  | And the Lot                            |
| 60'0               | 01.10                | 81.468               | 9E.1            | 701000.0               | 23.43          |  | 23.40          | pl pl          | 00.708             | T1188             | l ribsen                               | ellivbnomys                            |
| 11.0               | 82.79<br>ht arch     | 78.66T               | 08.1            | 0.000151               | 25.00          | <del> </del>                                     | 24.95          | 11.41<br>11.41 | 00.7541            | T1188             | l dager                                | ellivbromys                            |
| 11.0<br>60.0       | 41,218è              | 11093.13             | 65.1            | 601000.0<br>E01000.0   | 75.85<br>79.72 | -  | 26.23          | かいかい           | 00.1661            | 71188<br>71188    | 1 rbaen                                | ellivbnomys:                           |
| 00:0               | 11:71.0-             | 01:000::             |                 |                        |                |  |                |                |                    |                   | 37 (                                   | 37 (3 (3 (3 ))                         |
| <b>≯</b> 1.0       | 88.08                | <b>\$0.6</b> \$8     | 21.2            | 0.000252               | 60.ES          |  | 23.02          | 18.61          | 1375.00            | 11198             | f noser                                | elivbnomys:                            |
| 81.0               | 96.26                | 20.877               | 2.63            | \$86000.0              | 24.49          |  | 24.36          | 18.61          | 2192.00            | 71198             | f riosan                               | elivbromys                             |
| 80.0               | 3310.11              | 08.141E<br>68.62Te1  | 1.39            | 870000.0               | 87.8S<br>67.7S | 18.53  | 27.82<br>87.72 | 18.61          | 00.681£            | 71188<br>71188    | f ribaen                               | ellivbnomys:                           |
| 80.0               | 00.0009              | CC:C7101             | 60.1            | 0.10000.0              | £1:17          |  | 07.12          | 10.01          | 00:6404            | ,,,,,             |  | - Allafricults                         |
| <b>\$1.0</b>       | 94.1e                | Z8.E <del>1.</del> 3 | 5,14            | 192000.0               | 22.75          |  | 22.68          | 13.59          | 1375.00            | 06748             | i rbaen                                | ekiivbuoimke.                          |
| 81.0               | ZG:96                | TA. 12T              | 26.2            | 0.000426               | 36.52          |  | Z8.ES          | 93.51          | 2192.00            | 06748             | ) rbsen                                | elivbnomys                             |
| 22.0               | 85.101<br>35.9515    | 66'998               | 3.65            | 0.000590               | 25.19          | 30 14  | 79 ac          | 98.E1          | 00.E31E            | 09748             | 1 rhasen                               | eliivbnomys                            |
| 07'0               | 2138.25              | 1218,70              | 00.T            | PP8100.0               | £4.7 <u>Z</u>  | 21.35  | 79.92          | 93.E1          | 7349.00            | 06748             | l ribear                               | eliivboomys                            |
| <b>₽1.0</b>        | 99.66                | 09.21-9              | 2,13            | 992000.0               | 27.2Z          |  | 22.65          | TR.EI          | 1375.00            | 8,693.8*          | 1 Absen                                | ellivbriomys                           |
| 61.0               | BE. 66               | 81,487               | 16.5            | 2E4000.0               | 06 EZ          |  | TT.ES          | 78.E1          | 2192.00            | -8,693,8          | I rosen                                | eživbnomys                             |
| 22.0               | 30.301               | 90.278               | £8.£            | \$00000.0              | 25.13          |  | 24.93          | 73.61          | 00.631£            | *8,69348          | l ribsen                               | elivbnomys                             |
| 07.0               | 2836.72              | 80.88£1              | <del>76</del> 9 | £68100.0               | \$2.72         | 21.34  | 05.62          | 13.51          | 00.946.00          | .9°E89*8          | Luseu)                                 | ellivbooriya                           |
| <b>≯</b> 1.0       | 65.23                | 86.549               | 214             | 672000.0               | 22.69          |  | 22.62          | 95.E1          | 00.8761            | *T.78846          | 1 riosen                               | allivbnomys.                           |
| e1.0               | 58.101               | 752.77               | 16.2            | 121-000.0              | 98.EZ          |  | 23.73          | 13.56          | 2192.00            | •T,7 <b>e</b> ∂A8 | f rbsen                                | аутюпстив                              |
| £\$.0              | 88.801               | E8.178               | £9.£            | 829000.0               | 25.06          |  | 24.86          | 98.E1          | 3163,00            | *7.79248          | t ribeat                               | skivbnomys:                            |
| 14.0               | 36.718               | 91.0951              | 88.8            | \$96100°0              | 90.7 <u>S</u>  | 21.33  | 26.33          | 96.61          | 00,6457            | -7.792AB          | ) thaten                               | aymondvike                             |
| 21.0               | 12.21                | 78.01/8              | 21.5            | 87S000.0               | 79.52          |  | 22.60          | 13.54          | 1375.00            | •9°109¥8          | f ribsen                               | ellivbriomys                           |
| er.o               | 14.501               | 85.847               | 2.93            | 691-000.0              | 18.62          |  | 89.62          | 48.E1          | 2192,00            | *6,10218          | reach 1                                | ellivbnomys                            |
| 0.23<br>0.23       | 08.111<br>15.505A    | 17.788<br>£0.0891    | ₹8.£<br>₹8.8    | \$3000.0<br>\$2000.0   | 26.85          | 21.30  | 26.20          | 13.54          | 00,691£<br>00,94£7 | -S.10248          | î ribeen                               | eliivbnomys:                           |
| 04.0               | 15.7054              | cu.ueei              | 10.0            | 176100.0               | CO.02          | DC.1.2   | 07:07          | PC.C.          | 00.6501            | 61666             | l fasen 1                              | DIPERTING                              |
| S1.0               | \$9.56               | 61.85.15             | 2.16            | 672000.0               | 52.64          |  | 72.57          | 13.53          | 1375.00            | *4,80448          | ) rbear                                | aliivbnornys                           |
|                    | 103.44               | 05.047               | 96.2            | ₹8 <b>≯</b> 000.0      | 77.62          |  | 23.63          | 13.53          | 2192.00            | *4.80448          | reach 1                                | ellivbnomys:                           |
| <b>₽</b> 2.0       | 84.411<br>85.254     | 74.858<br>74.8262    | 99'S            | 807000.0<br>668100.0   | 24.93          |  | 17.42          | 53.51<br>53.51 | 00.6316<br>00.9467 | ** 60448          | f ribsen<br>1 ribsen                   | Symondyille<br>Symondyille             |
| 00.0               | 07:0001              | 12:0707              | 00.0            | 20010                  | Total          |  |                | 00.01          | 00:016             |                   | 2                                      | nutar                                  |
| <b>\$1.0</b>       | 64.06                | 634.54               | 71.5            | 692000.0               | 22.62          |  | 22.54          | 13.51          | 00.8751            | -Z 60£18          | l ribsen                               | Symondville                            |
|                    |                      | 732.29<br>85.24      | 66°Z            | 184000.0               | 23.73          | <del></del>                                      | 79 72          | 13.61          | 00.5915            | 84309.2*          | f cheen                                | ellivbriomys                           |
| \$2.0<br>0.31      | 17,211               | 28.25<br>3875.90     | \$7.E<br>79.\$  | 494000'0<br>494000'0   | 24.86          |  | 24.64          | 13.61          | 00.63rE<br>00.94ET | 84309.Z*          | f rbeen                                | ellivbromys:                           |
| 10:0               | 70:7001              |                      |                 | 0011                   |                |  |                |                | 00:0:              |                   |  |  |
|                    | 62.06                | 632.53               | 217             | 17S000.0               | 55.59          |  | 22.52          | 02.61          | 1375.00            | 84213.1"          | l ribeet                               | ellivbnomys                            |
| 61.0               | 14.46                | 727.24               | 3.01            | 29÷000.0               | 23.68<br>24.79 |  | 23.54<br>24,56 | 13.50          | 3163,00            | *1,61218          | l ribaen<br>l' closen                  | ellivbromysn<br>ellivbromysn           |
|                    | 07 + + +             |                      |                 |                        |                |  |                |                |                    |                   |  |  |
| 0.25               | 88,111<br>01.7848    | 828.76<br>17.8474    | 3.82            | £77000.0<br>000000.0   | 26.32          |  | 26.13          | 08.51          | 00.6457            | 1 61218           | ), fices                               | ellivbnomys                            |

HEC-RAS Plans P 50% D (Continued)

| River                        | Reach                   | River Sta               | Q Total                       | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev             | E.G. Slope   | Vel Chni     | Flow Area         | Top Width   | Froude # Chi |
|------------------------------|-------------------------|-------------------------|-------------------------------|----------------|----------------|--|-----------------------|--------------|--------------|-------------------|---|--------------|
|                              |                         |                         | (cfs)                         | (ft)           | (ft)           | (ft)   | (ft)                  | (ft/ft)      | (R/s)        | (sq ft)           | (ft)  |              |
| aymondville                  | reach 1                 | 84117                   | 1375.00<br>2192.00            | 13.48          | 22.49<br>23.50 |  | 22.56                 | 0.000273     | 2.18         | 631.29            | 90,09   | 0.14         |
| aymondville                  | reach 1                 | 84117                   |                               | 13.48          | 24.49          |  | 23.64                 | 0.000487     | 3.03         | 723.94            | 94.11   | 0.19         |
| aymondville<br>aymondville   | reach 1                 | 84117                   | 3163.00<br>7349.00            | 13.48<br>13.48 | 26.10          |  | 24.72<br>26.21        | 0.000883     | 3.86<br>3.73 | 819.13<br>5777.30 | 98.08   | 0.24         |
| ayrijunuvino                 | 18eci i                 | 04717                   | 7349.00                       | 13.40          | 20.10          |  | 20,21                 | 0.000121     | 3.13         | 3717.30           | . 6000.00   | 0.24         |
| raymondville                 | reach 1                 | 83617.*                 | 1375.00                       | 13.40          | 22.35          |  | 22.42                 | 0.000283     | 2.20         | 625.05            | 90.47   | 0.15         |
| raymondville                 | reach 1                 | 83617.*                 | 2192.00                       | 13.40          | 23.25          |  | 23.40                 | 0.000503     | 3.09         | 708.39            | 94.58   | 0.20         |
| raymondville                 | reach 1                 | 83817.*                 | 3163.00                       | 13.40          | 24.06          |  | 24.30                 | 0.001067     | 3.94         | 872.43            | 547.90  | 0.28         |
| raymondville                 | reach 1                 | 83617,*                 | 7349.00                       | 13.40          | 25.73          |  | 25.85                 | 0.000726     | 3.82         | 5277.34           | 4437.51   | 0.24         |
| A CALL                       | d Section 1             |                         | 75.5.52                       | 10.10          |                |  |                       |              |              |                   |   | 0.27         |
| raymondville                 | reach (                 | 83117.                  | 1375.00                       | 13.31          | 22.19          |  | 22.27                 | 0.000295     | 2.22         | 620.18            | 91.89   | 0.15         |
| raymondville                 | reach 1                 | B31.17.*                | 2192.00                       | 13.31          | 22.96          |  | 23.10                 | 0.000715     | 3.06         | 789.72            | 428.49  | 0.23         |
| raymondville                 | reach 1                 | 83117.*                 | 3153.00                       | 13.31          | 23.59          |  | 23.79                 | 0.000928     | 3.74         | 1174.92           | 892.46  | 0.26         |
| raymondville                 | reach 1                 | 83117.*                 | 7349.00                       | 13.31          | 25.35          |  | 25.49                 | 0.000737     | 3.94         | 4925.86           | 4416.91   | 0.25         |
| 4.246                        | ri saniarna ja liini ka | ti jega nata            |                               |                |                |  |                       |              |              |                   |   |              |
| raymondville                 | reach 1.                | √ 82617.*               | 1375.00                       | 13.23          | 22.04          |  | 22.10                 | 0.000355     | 2.07         | 794.32            | 509.52  | 0.16         |
| raymondville                 | reach 1                 | 82817.*                 | 2192.00                       | 13.23          | 22.70          |  | 22.79                 | 0.000499     | 2.66         | 1174.17           | 650.53  | 0.19         |
| raymondville                 | reach 1                 | 82617.                  | 3163.00                       | 13.23          | 23.26          |  | 23.39                 | 0.000628     | 3.17         | 1692.56           | 1088.98   | 0.22         |
| raymondville                 | reach 1                 | 82617.*                 | 7349.00                       | 13.23          | 25.00          |  | 25.131                | 0.000682     | 3.67         | 4655.06           | 4411.25   | 0.24         |
| 114-11-11                    |                         |                         |                               |                |                |  |                       |              |              |                   |   |              |
| raymondville                 | reach 1                 | 82117                   | 1375.00                       | 13.15          | 21.93          |  | 21.97                 | 0.000197     | 1.63         | 1273.52           | 647.16  | 0.12         |
| raymondville                 | reach 1                 | 82117                   | 2192.00                       | 13.15          | 22.54          |  | 22.59                 | 0.000293     | 2.13         | 1808.64           | 1064.45   | 0.15         |
| raymondville                 | reach 1                 | 82117                   | 3163.00                       | 13.15          | 23.05          |  | 23.12                 | 0.000384     | 2.57         | 2382.97           | 1339.99   | 0.17         |
| raymondville                 | reach 1                 | 82117                   | 7349.00                       | 13,15          | 24.79          |  | 24.86                 | 0.000393     | 3.03         | 5450.19           | 2277.35   | 0.18         |
| કાર્મિક સ્થા                 | . Profile Service       | e August 1              |                               |                |                |  |                       |              |              |                   |   |              |
| raymondville                 | reach 1                 | 80117                   | 1375.00                       | 12.82          | 21.70          |  | 21.71                 | 0.000083     | 0.98         | 3376.75           | 3096,95   | 0.08         |
| raymondville                 | reach 1                 | 80117                   | 2192.00                       | 12.82          | 22.31          | L  | 22.32                 | 0.000074     | 0.99         | 5533.88           | 4008.02   | 0.07         |
| raymondville                 | reach 1                 | 80117                   | 3163.00                       | 12.82          | 22.84          |  | 22.85                 | 0.000063     | 0.97         | 7693.59           | 4113.29   | 0.07         |
| raymondville                 | reach 1                 | 80117                   | 7349.00                       | 12.82          | 24.65          |  | 24.65                 | 0.000041     | 0.94         | 17197.49          | 5896.62   | 0.06         |
| <del></del>                  |                         |                         |                               |                |                |  |                       |              |              |                   |   |              |
| raymondville                 | reach 1                 | 79415                   | 1375.00                       | 12.71          | 21.53          |  | 21.61                 | 0.000295     | 2.24         | 614.59            | 89.35   | 0.15         |
| raymondville                 | reach 1                 | 79415                   | 2192.00                       | 12.71          | 22.01          | -  | 22.19                 | 0.000615     | 3.33         | 657.97            | 91.27   | 0.22         |
| raymondville                 | reach 1                 | 79415                   | 3163.00                       | 12.71          | 22.38          | 20.40  | 22.70                 |              | 4.57         | 691.62            | 92,73   | 0.30         |
| raymondville                 | reach 1                 | 79415                   | 7349.00                       | 12.71          | 22.85          | 20.48  | 24.40                 | 0.005015     | 9.99         | 735.60            | 94.61   | 0.63         |
|                              |                         |                         | 4075.00                       | 40.50          | 04.55          | ·  |                       | 0.000005     |              | 2406.00           | 4005.00   |              |
| raymondviile                 | reach 1                 | 78117                   | 1375.00                       | 12.50          | 21.38          |  | 21.39                 | 0.000095     | 1,11         | 3435.36           | 4035,66   | 0.08         |
| raymondville                 | reach 1                 | 78117                   | 2192.00                       | 12.50          | 21.92          |  | 21.92                 | 0.000074     | 1.04         | 5608.79           | 4088,38   | 0.07         |
| raymondville                 | reach 1                 | 78117                   | 3163.00                       | 12.50          | 22.37          |  | 22.37                 | 0.000072     | 1.08         |                   | 4624.68<br>5831.91                                |              |
| raymondville                 | reach 1                 | 78117                   | 7349.00                       | 12.50          | 23.63          |  | 23.63                 | 0.000013     | 1.23         | 14226.35          | 3031.91   | 0.08         |
|                              | reach 1                 | 78117                   | 1375.00                       | 12.17          | 21.26          |  | 21.27                 | 0.000048     | 0.80         | 4682.51           | 4195.95   | 0.06         |
| raymondville<br>raymondville | reach 1                 | 78117                   | 2192.00                       | 12.17          | 21.82          |  | 21.82                 |              | 0.79         | +                 | 4250.33   | 0.06         |
| raymondville                 | reach 1                 | 76117                   | 3163.00                       | 12.17          | 22.26          |  | 22.27                 | 0.000044     | 0.85         | +                 | 4688.01   | 0.06         |
| raymondville                 | reach 1                 | 76117                   | 7349.00                       | 12.17          | 23.51          |  | 23.51                 |              |              |                   | +   | <del></del>  |
| 1 STATION KINNIG             | 10 Lat. 185             | 10117                   | 1343.00                       |                | 20.07          |  | 20.01                 | 0.00000      | 1.51         | 100 10.00         | 0000.00   | 0.01         |
| rzymondvilie                 | reach 1                 | 74240                   | 1375.00                       | 11.86          | 21.17          | <del>                                     </del> | 21.18                 | 0.000047     | 0.80         | 4494.79           | 4232.22   | 0.06         |
| raymondville                 | reach 1                 | 74240                   | 2192.00                       | 11.86          |                |  | 21.74                 |              | 0.79         | <del></del>       | 4302.02   |              |
| raymondville                 | reach 1                 | 74240                   | 3163.00                       | 11.86          | +              |  | 22.18                 | 0.000045     | 0.86         |                   | 4853.96   |              |
| raymondville                 | reach 1                 | 74240                   | 7349.00                       | 11,86          | 23.40          |  | 23.41                 | 0.000056     | 1.08         | 15335,94          | 6000.00   | 0.07         |
|                              | 4.1                     |                         |                               |                |                |  |                       |              |              |                   |   |              |
| raymondville                 | reach-1                 | 74117                   | 1375.00                       | 11.84          | 21.17          |  | 21.17                 | 0.000048     | 0.80         | 4471.24           | 4231.47   | 0.06         |
| raymondviile                 | reach 1.                | 74117                   | 2192.00                       | 11.84          | 21.73          |  | 21.74                 | 0.000041     | 0.80         | 6891.50           | 4301.38   | 0.06         |
| raymondville                 | reach 1                 | 74117                   | 3163.00                       | 11.84          | 22.17          |  | 22.18                 | 0.000045     | 0.87         | 8883.59           | 4853.2  |              |
| raymondville                 | reach 1                 | 74117                   | 7349.00                       | 11.84          | 23.39          |  | 23.40                 | 0.000057     | 1.09         | 15295.76          | 5000.00   | 0.07         |
|                              | [18] (18]               |                         | 1                             | L              |                | ļ  |                       | <u> </u>     | <u> </u>     | <u> </u>          | ļ   |              |
| raymondville                 | reach:1                 | 71592                   | 1375.00                       | 11.42          |                | +  | 21,07                 |              |              |                   |   |              |
| raymondville                 | reach 1                 | 71592                   | 2192.00                       |                |                | <del></del>                                      | 21.68                 |              | 0.80         | +                 | +   |              |
| raymondville                 | reach 1                 | 71592                   | 3163.00                       |                |                |  | 22.09                 |              |              | <del></del>       | <del></del>                                       |              |
| raymondville                 | reach 1                 | 71592                   | 7349.00                       | 11.42          | 23.28          | <del> </del>                                     | 23.29                 | 0.000062     | 1.15         | 14757.04          | 6000.0  | 0.01         |
|                              |                         |                         | <del> </del>                  | <u> </u>       | 1              |  |                       |              | ļ            |                   | <del> </del>                                      |              |
| raymondville                 | reach 1                 | 69075                   | 1528,00                       | 11.01          |                | +  | 20.91                 | +            | <del></del>  | <del></del>       | +   |              |
| raymondville                 | reach 1                 | 69075                   | 2336,00                       |                |                |  | 21.53                 | +            | +            |                   | <del>,                                     </del> | <del></del>  |
| raymondville                 | reach 1                 | 69075                   | 3404.00                       |                |                | ·  | 21.96                 | +            | -            |                   | +   |              |
| raymondville                 | reach 1                 | 69075                   | 8267.00                       | 11.01          | 23.11          |  | 23.11                 | 0.000074     | 1.26         | 15482.19          | 6000.0  | 0.0          |
| ļ                            | 1                       |                         |                               |                | <del> </del>   |  |                       | 2 2222       |              | <del> </del>      | <del></del>                                       | 1            |
| raymondville                 | reach 1                 | 66802                   | 1526.00                       |                |                |  | 20.68                 | <del>1</del> |              | <del></del>       | <del></del>                                       | +            |
| raymondville                 | reach 1                 | 66802                   | 2338.00                       |                |                |  | 21.40                 |              | +            | +                 | <del></del>                                       | <del></del>  |
| raymondville                 | reach 1                 | 66802                   | 3404.00                       |                |                |  | 21.82                 | +            |              | ·                 |   |              |
| raymondville                 | reach 1                 | 66802                   | 8267.00                       | 10.64          | 22.92          | <del>-</del>                                     | 22.93                 | 0.0000/4     | 1.26         | 13013.2           | 0.000.0   | 0.0          |
|                              |                         | 94900                   | 4500 00                       | 100            | 20.3           | ,  | 20.40                 | 0.000203     | 3 1.66       | 5 2109.94         | 3884.7  | B 0.1        |
| raymondville                 | reach 1                 | 64802                   | 1526.00                       | -              |                |  | 21.26                 |              |              | <del></del>       |   |              |
| raymondville                 | reach 1                 | 64802                   | 2336.00                       |                | -              |  | 21.26                 | <del></del>  | <del></del>  |                   |   | +            |
| raymondville                 | reach 1                 | 64802                   | 3404.00                       |                |                |  | 21.6                  | <del></del>  | <del></del>  | -                 |   |              |
|                              | reach 1                 | 64802                   | 8267.00                       | 10.3           | 22.7           | <b>'</b>   | 22.10                 | 0.00009      | 1.41         | 17398.0           | 0,000   | 0.0          |
| raymondville                 | 4                       |                         |                               |                |                |  | 1                     |              | 1            |                   |   | 1            |
|                              |                         | 20000                   | 4500.00                       |                | 400            | <del></del>                                      | 40 ~                  | 0.00000      | 2 24         | 712 0             | 02.6  |              |
| raymondville                 | reach 1                 | 62802                   | 1526.00                       | +              |                |  | 19.90                 | +            |              |                   |   |              |
|                              | reach 1<br>reach 1      | 62802<br>62802<br>62802 | 1526.00<br>2336.00<br>3404.00 | 9.9            | 8 21.10        |  | 19.90<br>21.1<br>21.5 | 1 0.00007    | 7 1.1        | 6254.2            | 6000.0  | 0.0          |

| River                                   | Plan P 50% I<br>Reach | River Sta            | A)<br>Q Total      | Min Ch El    | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Slope           | Vet Chri     | Flow Area          | Top Width          | Froude # Chl  |
|---|-----------------------|----------------------|--------------------|--------------|----------------|--|----------------|----------------------|--------------|--------------------|--------------------|---------------|
| MAGE                                    | Reaci                 | Niver Sta            | (cfs)              | (ft)         | (ft)           | (ft)   | (ft)           | (ft/ft)              | (ft/s)       | (sq ft)            | (ft)               | Frouce & City |
|   |                       |                      | ,( <b></b> )       | (1)          |                |  | 114            | troid                | 1007         | : fad sy           |                    |               |
| raymondville                            | reach 1               | 61180                | 1526.00            | 9.65         | 19.39          |  | 19.47          | 0.000251             | 2,18         | 698.46             | 93.02              | 0.14          |
| raymondviile                            | reach 1               | 61180                | 2336.00            | 9.65         | 20.73          |  | 20.82          | 0.000301             | 2.57         | 1624.80            | 2284.27            | 0.16          |
| raymondville                            | reach 1               | 61180                | 3404.00            | 9.65         | 21.17          |  | 21.25          | 0.000478             | 2.75         | 2891.50            | 3505.61            | 0.19          |
| raymondville                            | reach 1               | 61180                | 8267.00            | 9,65         | 22.21          |  | 22.26          | 0.000418             | 2.84         | 8114,62            | 6000.00            | 0.18          |
| <u> </u>                                | Park reserve          |                      |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 81130                | 1526.00            | 9.64         | 19.38          |  | 19.46          | 0.000251             | 2.19         | 698.22             | 93.01              | 0.14          |
| raymondville                            | reach 1               | 81130                | 2336.00            | 9.64         | 20,72          |  | 20.82<br>21.24 | 0.000302             | 2.58<br>2.79 | 1608.15            | 2261.06<br>3450.36 | 0.16<br>0.19  |
| raymondville<br>raymondville            | reach 1               | 61130<br>61130       | 3404.00<br>8267.00 | 9.64<br>9.64 | 21.15<br>22.18 |  | 22.23          | 0.000493             | 2.79         | 2828.26<br>7929.01 | 6000.00            | 0.19          |
| Tayleti Kiyille                         | (Idea)                | 07130                | 0201.00            | 0.04         | 22.10          |  | 22.23          | 0.000441             | 2.51         | 1828.01            | 0000.00            | 0.13          |
| raymondville                            | reach 1               | 60777                | 1526.00            | 9,58         | 19.29          |  | 19.37          | 0.000254             | 2.19         | 695.47             | 92.90              | 0.14          |
| raymondville                            | reach 1               | 60777                | 2336.00            | 9.58         | 20.72          |  | 20.73          | 0.000126             | 1.42         | 5052.51            | 6000.00            | 0.10          |
| raymondville                            | reach 1               | 60777                | 3404.00            | 9,58         | 21.13          |  | 21.14          | 0.000104             | 1.34         | 7538.68            | 6000.00            | 0.09          |
| raymondville                            | reach 1               | 60777                | 8267.00            | 9,58         | 22.14          |  | 22.15          | 0.000116             | 1.55         | 13580,94           | 6000.00            | 0.10          |
| 7.175                                   |                       | i Canalia            |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 58786                | 1526.00            | 9.26         | 18.76          |  | 18.84          | 0.000276             | 2.26         | 675.91             | 92.05              | 0.15          |
| raymondville                            | reach 1               | 58786                | 2336.00            | 9.26         | 20.22          |  | 20.30          | 0.000419             | 2.50         | 2102.57            | 6000.00            | 0.18          |
| raymondville                            | reach 1               | 58788                | 3404.00            | 9.26         | 20.84          |  | 20.87          | 0.000187             | 1.78         | 5848.08            | 6000.00            | 0.12          |
| raymondville                            | reach 1               | 58786                | 8267.00            | 9.26         | 21.86          |  | 21.87          | 0.000169             | 1.85         | 11926.61           | 6000.00            | 0.12          |
| raymondville                            | reach 1               | 58696                | 1526.00            | 8.92         | 18,15          |  | 18.23          | 0.000307             | 2.34         | 650.90             | 90.96              | 0.15          |
| raymondville                            | reach 1               | 56696                | 2336.00            | 8.92         | 19.22          |  | 19.37          | 0.000307<br>0.000478 | 3.11         | 750.54             | 95.24              | 0.13          |
| raymondville                            | reach 1               | 56696                | 3404.00            | 8.92         | 19.86          | 13.85  | 20.13          | 0.000809             | 4.19         | 812.73             | 97.82              | 0.26          |
| raymondville                            | reach 1               | 58898                | 8267.00            | 8.92         | 21.27          |  | 21.32          | 0.000450             | 2.92         | 8326.42            | 6000.00            | 0.19          |
|   | lind Pro-             | ed fight in the      |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 56844                | 1526.00            | 8.91         | 18.13          |  | 18.22          | 0.000308             | 2.35         | 650.34             | 90.93              | 0.15          |
| raymondville                            | reach 1               | 56844                | 2336.00            | 8.91         | 19.19          |  | 19.34          | 0.000481             | 3.12         | 749.05             | 95.18              | 0.20          |
| raymondville                            | reach 1               | 56644                | 3404.00            | 8.91         | 19.83          |  | 20.10          | 0.000816             | 4.20         | 810.28             | 97.72              | 0.26          |
| raymondville                            | reach f               | 56644                | 8267.00            | 8.91         | 21.24          |  | 21.29          | 0.000475             | 2.99         | 8153.10            | 6000.00            | D.19          |
|   |                       | E0400 Nt             | 4500.00            | 0 01         | 47 OP          |  | 18.07          | 0.000317             | 2.37         | 643.87             | 90.64              | 0.16          |
| raymondville<br>raymondville            | reach 1               | 56166.2*<br>56186.2* | 1526.00<br>2336.00 | 8.83<br>8.83 | 17.98<br>19.00 |  | 19.12          | 0.000317             | 2.90         | 1231.68            | 1015.18            | 0.18          |
| raymondville                            | reach 1               | 56166.2*             | 3404.00            | 8,83         | 19.63          |  | 19.76          | 0.000504             | 3.28         |                    | 1344.99            | 0.20          |
| raymondville                            | reach 1               | 56166.2"             | 8267.00            | 8.83         | 21.04          |  | 21.08          | 0.000393             | 2.70         |                    | 6000.00            | 0.18          |
|   |                       | Series Alle          |                    |              |                |  |                |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 55688,5*             | 1526.00            | 8.75         | 17.90          |  | 17.94          | 0.000186             | 1.81         | 1538.83            | 998.44             | 0.12          |
| raymondville                            | reach 1               | 55688.5*             | 2336.00            | 8.75         | 18.96          |  | 18.99          | 0.000149             | 1.73         | 2794.32            | 1314.39            | 0.11          |
| raymondville                            | reach t               | 55688.5°             | 3404.00            | 8.75         | 19.56          |  | 19.59          |                      | 1.94         | 3676.24            | 2866.30            | 0.12          |
| raymondville                            | reach 1               | 55688.5*             | 8267.00            | 8.75         | 20.90          |  | 20.93          | 0.000251             | 2.15         | 9447.60            | 5567.23            | 0.14          |
|   |                       |                      |                    |              |                |  |                |                      | ļ            |                    |                    |               |
| raymondville                            | reach 1               | 55210.7*             | 1526.00            | 8.67         | 17.88          |  | 17.68          | +                    | <del></del>  | 3048.50            | 1273.89            |               |
| raymondville                            | reach 1               | 55210.7*             | 2335.00<br>3404.00 | 8.67<br>8.67 | 18.94<br>19.53 |  | 18.94<br>19.54 |                      | 1.00         | 4437.16<br>5677.42 | 1346.76<br>3319.73 |               |
| raymondville<br>raymondville            | reach 1               | 55210.7*<br>55210.7* | 8267.00            | <del></del>  | 20.82          |  | 20.83          | <del></del>          |              | 11064.27           | 4720.67            |               |
| TAYLLOI MAING                           | I Carrie              | 10021011             | 0207.00            | 0.07         | 20.02          |  | 20.00          | 0.000140             | 1.55         | 71004.27           | 4720.07            | 2.7.          |
| raymondville                            | reach 1               | 54733                | 1597.00            | 8.59         | 17.71          | 11.76  | 17.81          | 0.000351             | 2.49         | 641.53             | 90.54              | 0.16          |
| raymondville                            | reach 1               |                      | 2442.00            |              |                | 12.65  |                |                      | <del></del>  |                    | 94.51              |               |
| raymondville                            | reach 1               | 54733                | 3556.00            | 8.59         | 19,09          | 13.65  | 19.43          | 0.001029             | 4.62         | 770.41             | 96.07              | 0.29          |
| raymondville                            | reach 1               | 54733                | 8659.00            | 8.59         | 20.45          | 17.14  | 20.65          | 0.001327             | 4.84         | 4849.32            | 4363.73            | 0.32          |
|   |                       |                      |                    |              |                |  |                |                      |              |                    |                    | <u> </u>      |
| raymondville                            | reach 1               | 54238.*              | 1597.00            |              | 17.53          |  | 17.63          |                      |              | 634.35             | 171.60             |               |
| raymondville                            | reach 1               | 54238.*              | 2442.00            |              | 18.50          |  | 18.59          |                      |              | <del></del>        |                    |               |
| raymondville                            | reach 1               | 54238.*<br>54238.*   | 3556.00<br>8659.00 |              |                |  | 18.95          |                      |              |                    |                    |               |
| raymondville                            | 184GH                 | J-1230.              | 0003.00            | 0.51         | 20.01          |  | 20.12          | 0.000012             | 7.33         | 3750.70            | 2500.00            |               |
| raymondville                            | reach 1               | 53743.*              | 1597.00            | 8.43         | 17.46          |  | 17.48          | 0.000191             | 1.56         | 2042.39            | 1694.57            | 0.12          |
| raymondville                            | reach 1               | 53743,*              | 2442.00            |              | +              |  | 18.46          |                      |              |                    |                    | 0.09          |
| raymondville                            | reach 1               | 53743.*              | 3556.00            | B.43         | 18.76          |  | 18.78          | 0.000162             | 1,66         | 4695.92            | 2308.97            | 0,1           |
| raymondville                            | reach 1               | 53743.*              | 8659.00            | 8.43         | 19.82          |  | 19.86          | 0.000322             | 2.58         | 7381.26            | 2808.31            | 0.16          |
| - 点述的 "                                 |                       |                      |                    | <u> </u>     | 1              |  |                | ļ                    |              |                    |                    | ļ             |
| raymondville                            | reach 1               | 53248.*              | 1597.00            | <del></del>  | +              |  | 17.4           |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 53248.*              | 2442.00            |              |                |  | 18.44          |                      |              |                    |                    | <del></del>   |
| raymondville                            | reach 1               | 53248.*              | 3556.00            |              |                |  | 18.7           | +                    |              |                    |                    |               |
| raymondville                            | reach 1               | 53248.*              | 8659.00            | 8.35         | 19.74          |  | 19.7           | 0.000134             | 1./5         | 10083.64           | 2900.00            |               |
| ramondiille                             | reach 1               | 52753                | 1379.00            | 8.27         | 17.43          | <del>                                     </del> | 17.4           | 3 0.00000            | 0,38         | 7021.92            | 2 2287.02          | 2 0.0         |
| raymondville<br>raymondville            | reach 1               | 52753                | 2028.00            |              |                |  | 18.4           |                      |              | <del></del>        |                    |               |
| raymondville                            | reach 1               | 52753                | 3083.00            | <del>+</del> | <del></del>    |  | 18.7           |                      |              | +                  |                    |               |
| raymondville                            | reach 1               | 52753                | 8075.00            |              | +              |  | 19.7           |                      |              | +                  |                    |               |
|   |                       | - 1                  |                    |              |                |  | T              |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 52344.3°             | 1379.00            |              |                |  | 17.4           |                      |              |                    |                    | <del></del>   |
| raymondville                            | reach 1               | 52344.3*             | 2028.00            |              |                |  | 18.4           |                      |              |                    | +                  |               |
| raymondville                            | reach 1               | 52344.3*             | 3083.00            |              |                |  | 18.7           |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 52344.3*             | 8075.00            | 8.20         | 19.6           | 7  | 19.6           | 8 0.00007            | 3 1.30       | 11975.7            | 3053.9             | 5 0.0         |
| 100000000000000000000000000000000000000 |                       |                      |                    | ļ            |                |  |                | 4 0.0000             | 4 05         | 7 4856.8           | 4 2290.7           | 4 0.0         |
| raymondville                            | reach 1               | 51935.7°             | 1379.00            |              |                |  | 17.4           |                      |              |                    |                    |               |
| raymondville                            | reach 1               | 51935.7*<br>51935.7* | 2028.00<br>3083.00 |              |                |  | 18.4           |                      |              |                    |                    |               |

|  | Reach                                   | River Sta              | Q Total            | Min Ch El                             | W.S. Elev      | Crit W.S.                             | E.G. Elev   | E.G. Slope  | Vel Chnl     | Flow Area  | Top Width   | Froude # Chi |
|--|---|------------------------|--------------------|---------------------------------------|----------------|---------------------------------------|---|-------------|--------------|--|---|--------------|
|  |   | E4005 75               | (cfs)              | (ft)                                  | (ft)           | (ft)                                  | (ft)  | (fVft)      | (ft/s)       | (sq ft)  | (ft)  | 1 1          |
| aymondville  | reach 1                                 | 51935.7*               | 8075.00            | 8.13                                  | 19.63          |                                       | 19.64   | 0.000098    | 1.44         | 10837.42   | 3081.26   | 0.09         |
| aymondville  | reach 1                                 | 51527.1*               | 1379.00            | 8.07                                  | 17.39          |                                       | 17.39   | 0.000034    | 0.64         | 4146.68  | 1897.47   | 0.05         |
| aymondville  | reach 1                                 | 51527.1*               | 2028.00            | 8.07                                  | 18.40          |                                       | 18.40   | 0.000024    | 0.60         | 6355.32  | 2511.18   | 0.04         |
| raymondville   | reach 1                                 | 51527.1*               | 3083.00            | 8.07                                  | 18.68          |                                       | 18.68   | 0.000042    | 0.81         | 7089.48  | 2656.74   | 0.06         |
| raymondville   | reach 1:                                | 51527.1*               | 8075.00            | 8.07                                  | 19.58          |                                       | 19.59   | 0.000133    | 1.59         | 9665.95  | 3103.90   | 0.10         |
| The Park of the Control of the Contr |   | 1 172 N = 15           |                    |                                       |                |                                       |   |             |              |  |   |              |
| raymondville   | reach 1                                 | 51118.5°               | 1379.00            | 8.00                                  | 17.38          |                                       | 17.38   | 0.000027    | 0.69         | 4109.22  | 1591.54   | 0.05         |
| raymondville   | reach 1                                 | 51118.5*               | 2028.00            | 8.00                                  | 18.38          |                                       | 18,39   | 0.000023    | 0.69         | 5850,64  | 1828.17   | 0.04         |
| raymondville   | reach 1                                 | 51118.5°<br>- 51118.5° | 3083.00<br>8075.00 | 8.00<br>8.00                          | 18.66<br>19.51 |                                       | 18.67   | 0.000044    | 0.95         | 6362.11  | 1893.45   | 0.06         |
| raymondville   | 7 | 51116.5                | 6073.00            | 0.00                                  | 19.51          |                                       | 19.52   | 0.000176    | 1.72         | 8483.96  | 3003.24   | 0.12         |
| raymondville   | reach 1                                 | 50710                  | 1379.00            | 7.93                                  | 17.27          | 10.84                                 | 17.34   | 0.000239    | 2.08         | 661.63   | 91.43   | 0.14         |
| raymondville   | reach f                                 | 50710                  | 2028.00            | 7.93                                  | 18.23          | 11.57                                 | 18.34   | 0.000360    | 2.70         | 750.87   | 95.25   | 0.17         |
| raymondville   | reach 1                                 | 50710                  | 3083.00            | 7.93                                  | 18.34          | 12.60                                 | 18,59   | 0.000800    | 4.05         | 761.35   | 95. <b>69</b>                                     | 0.25         |
| raymondville   | reach 1                                 | 50710                  | 8075.00            | 7.93                                  | 19.44          | 16.13                                 | 19.46   | 0.000169    | 1.97         | 7963.22  | 2102.97   | 0.12         |
| Single backer  | Adding Land Control                     | 1111                   |                    |                                       |                |                                       |   |             |              |  | _   |              |
| raymondville   | reach 1                                 |                        | 1379.00            | 7.86                                  | 17.17          | 10,77                                 | 17.24   | 0.000243    | 2.09         | 658.44   | 91.28   | 0.14         |
| raymondville   | reach 1                                 | 50308.0°               | 2028.00<br>3083.00 | 7.86<br>7.86                          | 18.08          | 11.50                                 | 18.19   | 0.000371    | 2.73         | 742.73   | 94.90   | 0.17         |
| raymondville<br>raymondville   | reach 1                                 | 50308.0*               | 8075.00            | 7.86                                  | 18.46<br>19.37 | 12.53<br>16.06                        | 18.47<br>19.39                                    | 0.00048     | 1.00         | 6214.72<br>8052.26                               | 1925.47<br>2132.95                                | 0.06<br>0.12 |
|  |   | 12m                    | 00.00              | 7.00                                  | 19.01          | 10.00                                 | 15.35   | 3,550 100   | 1.83         | VV02.20  | 2132.83   | 0.12         |
| raymondville   | reach 1                                 | 49906.0*               | 1379.00            | 7.80                                  | 17.07          | 10.71                                 | 17.14   | 0.000247    | 2.11         | 654.55   | 91.11   | 0.14         |
| raymondville   | reach t                                 | 49908.0*               | 2028.00            | 7.80                                  | 17.91          | 11.44                                 | 18.03   | 0.000386    | 2.77         | 732.86   | 94.49   | 0.18         |
| raymondville   | reach 1                                 | 49906.0*               | 3083.00            | 7.80                                  | 18.45          | 12.47                                 | 18.45   | 0.000046    | 0.98         | 6371.67  | 1996.75   | 0.06         |
| raymondville   | reach 1                                 | 49908.0*               | 8075.00            | 7.80                                  | 19.31          | 16.00                                 | 19.33   | 0.000167    | 1.96         | 8179.27  | 2238.82   | 0.12         |
| - 17, 197 5 7W 3   | en en y trous                           | 40504.04               | 1270.00            | 7.70                                  | 40.54          | 10.55                                 | 47.00   | 0.00000     |              | 051  |   |              |
| raymondville   | reach 1                                 | 49504.0°               | 1379.00<br>2028.00 | 7.73<br>7.73                          | 16.96<br>17.75 | 10.65<br>11.37                        | 17.03<br>17.87                                    | 0.000250    | 2.12<br>2.80 | 651.39<br>723.78                                 | 90.98<br>94.11                                    | 0.14         |
| raymondville<br>raymondville   | reach 1                                 | 49504.0                | 3083.00            | 7.73                                  | 18.43          | 12.40                                 | 18.43   | 0.000400    | 0.94         | 6351.61  | 2053.50   | 0.18<br>0.06 |
| raymondville   | reach 1                                 | 49504.0*               | 8075.00            | 7.73                                  | 19.24          | 15.93                                 | 19.26   |             | 1.98         | 8334.16  | 2396.40   | 0.12         |
| 1, 1, 10, 10, 10   | • •                                     |                        |                    |                                       |                |                                       |   |             |              |  |   |              |
| rzymondville   | reach 1                                 | 49102.0*               | 1379.00            | 7.67                                  | 16.86          | 10.58                                 | 16.93   | 0.000255    | 2.13         | 647.50   | 90.82   | 0,14         |
| raymondville   | reach 1                                 | 49102.0*               | 2028.00            | 7.67                                  | 17. <b>57</b>  | 11.31                                 | 17.70   |             | 2.84         | <del>                                     </del> | <del></del>                                       | 0.18         |
| raymondville   | reach 1                                 | 49102.0*               | 3083.00            | 7.67                                  | 18.33          | 12.34                                 | 18.39   |             | 2.49         |  | 2153.48   | 0.15         |
| raymondville   | reach 1                                 | 49102.0*               | 8075.00            | 7.67                                  | 19.17          | 15.87                                 | 19,19   | 0.000178    | 1.66         | 8515.62  | 2496.08   | 0.12         |
| raymondville   | reach 1                                 | 48700                  | 1379.00            | 7.60                                  | 16.76          | 10.51                                 | 16.83   | 0.000258    | 2.14         | 644.38   | 90,67   | 0.14         |
| raymondville   | reach 1                                 | 48700                  | 2028.00            | 7.60                                  | 17.39          | 11.24                                 | 17.52   | 0.000236    | 2.88         |  |   | 0.14         |
| raymondville   | reach 1                                 | 48700                  | 3083.00            | 7.60                                  | 17.93          | 12.27                                 | 18.19   |             | 4.09         | <del></del>                                      | +   | 0.26         |
| raymondville   | reach 1                                 | 48700                  | 8075.00            | 7.60                                  | 19.10          | 15.80                                 |   | 0.000167    | 1.62         | +  | <del>,                                     </del> | 0.11         |
| THE RE   | Strategy of                             | 111, 1                 |                    |                                       |                |                                       |   |             |              |  |   |              |
| raymondville   | reach 1                                 | 48516.6*               | 1379.00            | 7.57                                  | 16.71          | 10,49                                 | 16.78   | •           | 2.15         | 1  | <del></del>                                       | 0.14         |
| raymondville   | reach 1                                 | 48516.6*               | 2028.00            | 7.57                                  | 17.31          | 11.21                                 | 17.44   | +           | 2.91         | 697.90   | <del></del>                                       | 0.19         |
| raymondville   | reach 1                                 | 48516.6°               | 3083.00            | 7.57<br>7.57                          | 17.76          | 12. <b>24</b><br>15.77                | 18.03   | <del></del> | 4.17<br>1.66 |  | 94.80   | 0.26         |
| raymondville   | reach 1                                 | 40310.0                | 8075.00            | 1.51                                  | 19.07          | 15.77                                 | 19.08   | 0.000169    | 1.00         | 8721.67  | 2564.78   | 0,11         |
| raymondviite   | reach 1                                 | 48333.3*               | 1379.00            | 7,54                                  | 16.66          | 10.46                                 | 16.73   | 0.000262    | 2.15         | 640.85   | 90.52   | 0.14         |
| raymondville   | reach 1                                 | 48333.3°               | 2028.00            | 7.54                                  | 17.22          | 11.18                                 | 17.36   | +           | 2.93         | +  | <del>                                     </del>  | <del></del>  |
| raymondville   | reach 1                                 | 48333.3*               | 3083.00            | 7.54                                  | 17.57          | 12.21                                 | 17.85   | 0.000919    | 4.25         | 725.14   | 94.17   | 0.27         |
| raymondville   | reach 1                                 | 48333.3*               | 8075.00            | 7.54                                  | 19.04          | 15.74                                 | 19.06   | 0.000175    | 1.72         | 8837.31  | 2922.33   | 0.12         |
|  |   |                        |                    |                                       |                |                                       |   |             |              | ļ  | <u> </u>  |              |
| raymondville   | reach 1                                 | 48150                  | 1379.00            | 7.51                                  | 16.61          | 10.42                                 | 47.07   |             | 2.16         |  |   |              |
| raymondville   | reach 1                                 | 48150                  | 3083.00            | 7.51                                  | 17.14          | 11.15                                 | <del>,                                     </del> | 0.000464    | 4.34         |  |   |              |
| raymondville   | reach 1                                 | 48150                  | 8075.DO            |                                       | 19.01          |                                       |   |             |              | <del></del>                                      | +   |              |
|  | sat since                               | . 24.                  |                    |                                       |                |                                       |   |             |              | İ  |   |              |
| raymondville   | reach:1                                 | 47686."                | 1379.00            | 7.43                                  | 16.48          | 10.35                                 | 16.55   | 0.000272    | 2.17         | 635.16   | 91.12   | 0.14         |
| raymondville   | reach 1                                 | 47686.*                | 2028.00            |                                       |                | 11.08                                 |   |             |              |  |   |              |
| rzymondville   | reach 1                                 | 47686.*                | 3083.00            | <del></del>                           |                | +                                     |   |             |              |  | <del>•</del>                                      | 0.11         |
| raymondville   | reach 1                                 | 47686.*                | 8075,00            | 7.43                                  | 18.89          | 15,63                                 | 18.91   | 0.000197    | 1.92         | 8768.13  | 3505.30   | 0.13         |
| raymondville   | reach 1                                 | 47222.*                | 1379.00            | 7.36                                  | 16.33          | 10.28                                 | 16.40   | 0.0003B3    | 2.13         | 646.88   | 1927.97   | 0.17         |
| raymondville   | reach 1                                 | 47222.*                | 2028.00            |                                       |                |                                       |   |             |              |  |   |              |
| raymondville   | reach 1                                 | 47222.*                | 3083.00            |                                       |                | 12.04                                 | <del></del>                                       |             |              |  | +   | <del></del>  |
| raymondville   | reach:1                                 | 47222.*                | 8075.00            | 7.36                                  | 18.77          | 16.21                                 | 18.80   | 0.000213    | 2.05         | 8681.00  | 3764.70   | 0.13         |
|  |   |                        |                    |                                       |                |                                       |   |             |              |  |   |              |
| raymondville   | reach 1                                 | 48758.*                | 1379.00            |                                       |                |                                       | +   |             | +            | +  | +   |              |
| raymondville   | reach 1                                 | 46758.*                | 2028.00            | · · · · · · · · · · · · · · · · · · · |                |                                       |   |             | +            |  |   | <del></del>  |
| raymondville   | reach 1                                 | 46758.*<br>46758.*     | 3083.00<br>8075.00 | <del></del>                           | -              |                                       | +   |             |              | <del></del>                                      |   | <del></del>  |
| raymondville   | reach 1                                 | TU/ 00.                | 00/5.00            | 7.20                                  | 10.00          | 10.04                                 | 10.00   | 0.000213    | 4.1          | 0/19.3/  | 3130.44   | . u, i,      |
| raymondville   | reach 1                                 | 46294.*                | 1379.00            | 7.21                                  | 16.25          | 10.13                                 | 15.20   | 0.000068    | 0.9          | 7 2750.11  | 1542.42   | 0.0          |
| raymondville   | reach 1                                 | 46294.*                | 2028.00            |                                       | 16.68          |                                       | <del></del>                                       | <del></del> | <del>•</del> | +  | +   | <del></del>  |
|  | reach 1                                 | 46294."                | 3083.00            |                                       |                | · · · · · · · · · · · · · · · · · · · | 17.1  | 5 0.000123  | 1.4          | 4425.50  | 2288.09   | 0.10         |
| raymondville   |   | 100044                 | 8075.00            | 7.21                                  | 18.54          | 15.5                                  | 18.5  | 7 0.000211  | 2.14         | 8979.7   | 3765.56   | 0.1          |
| raymondville<br>raymondville   | reach 1                                 | 48294.*                | a075.UC            | 1.70                                  |                | ·                                     |   | _           |              |  |   |              |
|  | reach 1                                 | 45830                  | 1379.00            |                                       |                |                                       |   | 3 0.000040  |              |  |   |              |

HFC-RAS Plan. P. 50% D. (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (11) (ft/ft) **(ft)** (ft/s) (sq ft) (ft): raymondville 0.00008 45830 3083.00 7.13 17.09 11.80 17 10 5198.75 2380.27 0.08 raymondville reach 1 45830 8075.00 7.13 18.45 15.00 18.48 0.000194 2.11 9269.65 3724.06 0.13 raymondville reach 1 1379.00 45414 7.06 16.20 9.97 16.21 0.000042 0.80 3444.77 1910.18 0.06 raymondville reach 1 45414. 2028.00 7.06 16.62 10.70 16.62 0.000059 0.99 4269.74 2061.68 0.07 raymondville reach 1 45414 3083.00 7.06 17.05 11.73 17.06 0.000086 1.25 5197.37 2281.05 0.08 raymondville reach 1 45414. 8075.00 7.06 18.38 15.00 18.41 0.000180 2.03 9557.38 3776.82 0.12 raymondville reach 1 44998 1379.00 6.99 16 18 9.91 16 19 0.000045 0.84 3457.71 2023.19 0.06 raymondville 44998 reach 1 2028.00 6.99 16.59 10.63 16.59 0.000060 1.00 4292.31 2119.09 0.07 raymondville reach 1 44998. 3083.00 1.99 17.02 11.66 17.03 0.000095 1.32 5297.31 2726.36 0.09 raymondville 44998. reach 1 8075.00 5.99 18,32 15.00 18.34 0.000169 1.96 9904.06 4211.33 0.12 raymondville 44582 1379.00 reach 1 6.93 16.15 9.84 16.16 0.000047 0.85 3477,69 2096.29 0.06 raymondville reach 1 44582. 2028.00 6.93 16.56 10.57 16.56 0.000072 1,10 4408.33 2703.11 0.07 raymondville reach 1 44582 3083.00 6.93 16 98 11.60 16 99 0.00009 1.31 5597.69 2890.94 0.09 raymondville 44582. reach 1 8075.00 6.93 18.26 15,00 18.27 10691.21 0.000157 1.89 4439.31 0.11 44166 raymondville dacti 1 1379.00 6.86 16.13 9.77 16 13 0.000054 0.92 3620.12 2715.79 0.06 raymondville 44168 2028.00 reach 1 6.86 16.52 10.50 16.53 0.000063 1.03 4724.81 2811.32 0.07 raymondville each 1 44166 3083.00 6.86 16.94 11 53 16 95 0.00008 1.22 6082.18 3763.13 0.08 44166 raymondville 8075.00 ach 1 6.86 18.21 15.00 18.22 0.000125 1.68 11546,37 4439.09 0.10 raymondvilla 43750 1379.00 6.79 16.10 9.70 16 10 0.000045 0.84 4033.88 3411.95 0.06 raymondville reach 1 43750 2028.00 6.79 16.49 10.43 16.50 0.000051 0.93 5429.60 3611.31 0.06 raymondville reach 1 43750 3083.00 6.79 16.90 11.46 16.91 0.000071 1.14 6987.98 3998.02 0.08 raymondville reach 1 43750 12404.17 6.79 8075.00 18.16 15.00 18,17 0.000100 1.51 4439.10 0.09 raymondville reach 1 43313.6\* 1379.00 6.72 16.07 16.07 0.00006 0.96 3524 66 3343.68 0.07 raymondville reach 1 43313.6\* 2028.00 6.72 16.46 16 47 0.000067 1.05 4924 73 3722.27 0.07 raymondville reach 1 43313.61 3083.00 6.72 16.87 16.88 0.000086 1 24 6498 01 3977.38 0.08 raymondville 43313.6\* reach 1 8075.00 6.72 18,11 18.13 0.000115 1.59 11877.71 4448,02 0.10 raymondville 42877.2 1379.00 6.65 16.03 16.04 0.000086 1.12 2998.04 3368 64 0.08 raymondville reach 1 42877.2 2028.00 6.65 16.42 16.43 0.000096 1.24 4433 32 3806.70 0.09 raymondville reach 1 42877.2\* 3083.00 6.65 16.82 16.83 0.000108 1.36 5970.02 3937.15 0.09 raymondville each 1 42877.2\* 8075.00 6.65 18.06 18.07 0.000134 1.70 11316.76 4472.91 0.11 42440.8 raymondville each 1 1379.00 6.57 15,96 15.99 0.000130 1.35 2451.87 3203.25 0.10 raymondville 42440.8 reach 1 2028.00 6.57 16.37 16 38 0.000125 1 39 3912.72 3724.01 0.10 42440.81 raymondville reach 1 3083.00 6.57 16.76 16.77 0.000138 1.52 5396.47 3847.86 0.10 raymondville 42440.81 8075.00 reach 1 6,57 17.99 18.01 0.000159 1.83 10718.18 4526.56 0.11 raymondville reach 1 42004.4 1379.00 6.50 15.89 15 91 0.000172 1.53 1917.07 2622.09 0.11 raymondville reach 1 42004.4\* 2028.00 6.50 16,30 16,32 0.000172 1.60 3346.87 3697.12 0.11 raymondville 42004.4 3083.00 6.50 reach 1 16.68 16.70 0.000184 1.72 4767.86 3750.12 0.12 raymondville 42004.4 8075.00 reach 1 6.50 17.91 17.93 0.000204 2.04 10227.22 5443.37 0.13 raymondville reach 1 41568 1379.00 15.79 6.43 15.83 0.000220 1.69 1498.21 2010.91 0.13 raymondville 41568 2028.00 6.43 16.19 16.23 0.000259 1.92 2653.07 3659.27 0 14 raymondville reach 1 41568 3083.00 6.43 16.58 16.61 0.000264 2.02 4072.52 3721 38 0.14 raymondville reach 1 41568 6.43 17.83 0.000213 17.85 2.05 10612.49 6000.00 0.13 39543 1379.00 raymondville reach 1 6.10 15.62 15.62 0.000055 4950.07 0.70 5100.64 0.06 raymondville reach 1 39543 2028.00 6.10 16.02 16.02 0.000050 0.71 7033.92 6000.00 0.06 raymondville reach 1 39543 3083.00 6,10 16.39 16.39 0.000054 0.78 9244.04 6000.00 0.06 raymondville reach 39543 8075.00 6.10 17.63 17.63 0.000061 0.96 16662.43 6000.00 0.07 37135 1379.00 5.71 15.55 8.63 15.**5**5 0.000017 0.47 6466,45 4749.90 0.04 raymondville 37135 reach 1 2028.00 5.71 15.95 9.35 15.95 0.000020 0.54 8453.75 5104.93 0.04 reach 1 37135 3083.00 raymondville 5.71 16.29 10.38 0.70 16.29 0.000031 10242.68 5378.81 0.05 37135 raymondville reach 1 8075.00 5.71 17.49 13.91 17.49 0.000053 1.03 16885.75 5694.04 0.07 raymondville reach 1 34845 1714.00 5.33 15.40 15.44 0.000220 1.73 2510.61 4563.81 0.13 raymondville reach 1 34845 2255.00 5.33 15.83 15.85 0.000135 1.42 4499.93 4727.52 0.10 raymondville reach 1 34845 2856.00 5.33 16.16 16.17 0.000108 1.32 6063.59 4856.38 0.09 raymondville reach 1 34845 7259.00 17.31 5.33 17.33 0.000120 1,55 12176.96 6000.00 0.10 raymondville each 1 34786 1714.00 5.32 15,38 15.42 0.000242 1.81 2317.11 4556.48 0.13 raymondville reach 1 34786 2255.00 5.32 15.82 15.84 0.000145 1.48 4335.59 4722.59 0.10 reach 1 34788 2856.00 5.32 raymondville 16.15 0.000114 1.36 5918.32 4853.13 0.09 raymondville reach 1 34788 7259.00 5.32 17.31 17.32 0.000123 1.57 12023.85 6000,00 0.10 raymondville mach 1 32585 1714 00 4.96 14.67 14.74 0.000408 2.28 1043.70 1133.11 0.17 raymondville reach 1 32585 2255.00 4.96 15.39 15.43 0.000246 3852.55 1.92 2999.29 0.14 raymondville reach 1 32585 2856.00 15.85 4.96 15.87 0.000155 4837.07 4106.89 1.60 0.11 raymondville reach 1 32585 7259.00 4.96 17.00 17.01 0.000157 1.79 10802.48 5488.50 0.11 raymondville reach 1 30564 1714.00 4.63 13.82 13.93 0.000393 2.65 651.73 114.58 0.17

HEC-RAS Plan. P 50% D (Continued) Q Total Reach River Sta Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (IVII) (fVs) (sq ft): raymondville reach 1 30564 2255.00 4.63 14 61 14.75 0.000475 3.05 912.78 898.14 0.19 raymondville 30564 reach 1 2856.00 4.63 15.25 15.37 0.000441 3.04 2048.00 3095 60 0.19 raymondville reach 1 30564 7259.00 4.63 16.54 16.57 0.000304 2.32 8905.61 6000.00 0.15 raymondvião reach 1 29170 1714.00 4.40 13 22 13.34 0.000459 2.79 613.82 89.31 0.19 raymondville reach/1 29170 2255.00 4.40 13.81 13.99 0.000623 3.38 668.09 91 71 0.22 raymondville reach 1 29170 2856.00 4.40 14 30 14.55 0.000830 712.64 4.01 93.63 0.26 raymondviile reach 1. 29170 7259.00 4.40 16.00 16.07 0.000612 3.24 6769.10 6000.00 0.22 raymondville 28867.7 reach 1 1714.00 4.35 13 07 13.19 0.000482 2.83 605.36 89.47 0.19 raymondville reach 1 28867.7 2255.00 4.35 13.61 13.79 0.000669 3.45 654.05 91 93 0.23 raymondville reach 1 28867.7 2856.00 4.35 14 02 14.28 0.000903 4.10 744.36 444.14 0.27 raymondville reach 1 28887.7 7259.00 4.35 15.80 15.89 0.000689 3.51 6282.37 6000.00 0.23 raymondville reach:1 26565.55 1714.00 4.30 12.92 13.04 0.000497 2.83 685.41 316.05 0.19 28565.5 raymondville reach:1 2255.00 4.30 13.40 13.55 0.000888 3.24 889.85 549.79 0.25 raymondville 28565.5 reach-1 2856.00 4.30 13.80 13.97 0.000980 3.56 1127.59 630.05 0.27 rzymondviše reach 1 28565.5 7259.00 4.30 15.59 15.69 0.000739 3.70 5738.40 5786.85 0.24 raymondville reach 1 28263.2 1714.00 4.25 12.81 12.68 0.000468 2.31 1071.21 576.72 D 18 raymondville reach 1 28263.2 2255.00 4.25 13.24 13.32 0.000525 2.57 1331.64 633,89 0.19 raymondville reach 1 28263.2 2856.00 4.25 13.62 13.72 0.000606 2.87 1589.04 750.20 0.21 raymondville reach 1 28263.24 7259.00 4.25 15.38 15.49 0.000715 3.70 5492.24 5204.39 0.24 raymondville reach 1 27961 1714.00 4.20 12.74 12.77 0.000235 1.70 1570.27 639.60 0.13 raymondville reach 1 27961 2255.00 4.20 13.16 13 20 0.000290 1,98 1851.90 746.39 0.15 reach 1 27961 2856.00 4.20 0.000338 13.52 13.57 2.21 2139.81 816.95 0.16 raymondville reach 1 27961 7259.00 4.20 15.19 15.28 0.000846 3.57 5478.46 4782.91 0.23 rzymondville reach 1 27505.2\* 1714.00 4.13 12.63 12.67 0.000249 1.74 1577.5 724.39 0.13 raymondville reach:1 27505.2\* 2255.00 4.13 13.03 13 07 0.000296 1.98 1886.69 821.50 0.15 raymondville reach 1 27505.2\* 2856.00 4.13 13.38 13.42 0.000337 2.19 2179.60 860.65 0.16 27505.2\* 7259.00 4.13 14.90 14.99 0.000635 3.49 5891.28 5106.96 0.23 27049.4\* 1714.00 raymondville reach:1 4.05 12.52 12 55 0.000255 1.74 1619.24 824.81 0.14 raymondville reach \$ 27049.4\* 2255.00 4.05 12.90 12.94 0.000289 1.94 1946.59 884.49 0.15 raymondville 27049.4\* reach 1 2856.00 4.05 13.23 13 28 0.000330 2.15 2300.04 1260.16 0.16 27049.4\* 7259.00 4.05 14.67 14.73 0.000470 2.98 6901.93 5380.90 0.19 raymondville reach 1 26593.6\* 1714.00 3.98 12.42 12.45 0.000234 1.66 1768.68 1096.39 0.13 reach 1 26593.61 2255.00 3.98 12,79 12.82 0.000256 1.82 2228.49 1364.94 0.14 rzymondville reach:1 26593.6\* 2856.00 3.98 13,10 13 14 0.000304 2.06 2733.16 2183.10 0.15 raymondville reach 1 26593.61 7259.00 3.98 14.54 14.57 0.000267 2.24 8709.15 5131.83 0.15 26137.8° raymondville reach 1 1714.00 3.90 12.34 12.36 0.000185 1 48 2192.22 1558.26 0.12 raymondville reach 1 26137.8\* 2255.00 3.90 12.68 12.71 0.000244 1.77 3244.14 2932.80 0.13 raymondville reach 1 26137.81 2856.00 3.90 13.00 13.02 0.000218 1.74 4116.03 4080.54 0.13 raymondville reach:1 26137.8\* 7259.00 3.90 14.46 14.47 0.000140 1.62 10876.60 4909.53 0.11 raymondville nearth 1 25882 1714.00 3.83 12.28 12.30 0.000131 1.25 3534 63 4063.17 0.10 raymondville mach 1 25682 2255.00 3.83 12.63 12.64 0.000105 1 17 4956.18 4115.05 0.09 raymondville reach 1 25882 2856.00 3.83 12.95 12,96 0.000091 1.13 6283.81 4163.46 0.08 reach 1 25682 7259.00 aymondville 3.83 14.43 14.43 0.000078 1.22 13232.35 4899.50 0.08 raymondville reach 1 25281 1714.00 3.76 12.25 12.25 0.000100 1.11 4044.38 4054 57 0.09 raymondville reach 1 25281.\* 2255.00 3.76 12.60 12.61 0.000082 1.05 5490.53 4121.23 0.08 raymondville mach f 25281 \* 2856.00 3.76 12.92 12.93 0.000081 1.08 6893.04 4654.45 0.08 raymondville reach 1 25281.\* 7259.00 3.76 14,40 14.41 0.000074 1.20 14400 93 6000.00 0.08 raymondville reach 1 24880.\* 1714 00 3.70 12.22 12.22 0.000071 0.95 4652.36 3610.09 0.07 raymondville reach 1 24880.\* 2255.00 3.70 12.57 12.58 0.000065 0.95 6081.35 4209.63 0.07 raymondville reach 1 2488D.\* 2856 00 3.70 12.90 12.91 0.000063 7572.73 0.97 4663.09 0.07 raymondville reach 1 24880. 7259.00 3.70 14.38 14.39 0.000058 1.08 15668.30 6000.00 0.07 1714.00 raymondville reach 1 24479.\* 3.63 12.20 12.20 0.000051 0.82 5339.50 3891.36 0.06 raymondvike reach f 24479." 2255.00 3.63 12.56 12.56 0.000048 6808.78 0.83 4400.81 0.06 raymondville reach 1 24479. 2856.00 3.63 12.89 12.89 0.000049 0.87 8396.18 4998.58 0.08 raymondville reach 1 24479. 7259.00 3.63 14.36 14.37 0.000046 0.97 16937.71 6000,00 0.06 24078. raymondville reach 1 1714.00 3.57 12 18 12.19 0.000037 6166.50 0.70 4144.97 0.05 raymondville reach 1 2407B. 2255.00 3.57 12.54 12.54 0.000036 7758.83 0.73 4865.35 0.05 raymondville reach 1 24078.\* 2856.00 3.57 12.87 12.87 0.000037 0.77 9425.27 5466.29 0.05 raymondville reach 1 24078.\* 7259.00 3.57 14.34 14.34 0.000037 0.88 18200.47 6000.00 0.06 raymondville reach 1 23677 1714.00 3.50 12.16 12.17 0.000027 0.60 7145.76 4682.75 0.04 raymondville reach 1 23677 2255.00 3.50 12.52 12.53 0.000026 8905.42 0.62 5218.65 0.04 23677 raymondville reach 1 2856.00 3.50 12.85 12.85 0.000027 0.66 10699.55 5674.64 0.05 raymondvilla 7259.00 reach 1 23877 3.50 14.32 14.32 0.000030 0.80 19463.71 6000.00 0.05

HEC-RAS Plan. P 50% D (Continued) River Sta Q Total Min Ch E W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chi (cfs) **(ft)** (ft) (10) (#/ft) (sq ft) raymondville (ft) 21660 reach 1 1714 00 12.13 12.13 0.000013 10238.6 6000.00 0.03 raymondville reach 1 21880 2255.00 3.17 12.49 12.50 0.000012 0.42 12410,19 6000.00 0.03 raymondville reach 1 21660 2856.00 3.17 12.62 12.82 0.000013 14360.32 0.44 6000,00 0.03 raymondville reach 1 21660 7259.00 3.17 14.28 14.28 0.000018 0.60 23116.21 6000.00 0.04 raymondville reach 1 19606 1714.00 2.83 12.11 12.11 0.000013 0.42 10017.37 5923.16 0.03 raymondville reach 1 19606 2255 00 2.83 12.48 12.48 0.000012 0.43 12228.52 6000.00 raymondville 0.03 reach 1 19606 2856.00 2.83 12.80 12.80 0.000013 0.45 14140.04 6000.00 0.03 raymondville reach 1 19606 7259 00 2.83 14.25 14.25 0.000018 0.61 22848.45 6000,00 0.04 raymondville reach 1 19152.2\* 1714 00 2.75 12.10 12.10 0.000014 0.45 9715.97 6000.00 0.03 raymondville reach 1 19152.21 2255 00 2.75 12.46 12.46 0.000013 0.45 11917.39 6000.00 0.03 raymondville reach 1 19152.2" 2856.00 2.75 12.78 13843.21 12.78 0.000014 0.47 6000.00 0.03 raymondville reach 1 19152.21 7259.00 2.75 14.23 14.23 0.000019 0.63 22540.69 6000.00 0.04 raymondville 18898.5\* ach t 1714 00 2.68 12.08 12.08 0.000016 0.47 9418.09 6000.00 0.03 raymondville reach 1 18898.5\* 2255.00 2.68 12.45 12.45 0.000015 0.47 11607.85 6000.D0 raymondville 0.03 18698.5\* each 1 2856 00 2.68 12.77 12.77 0.000015 0.49 13547.96 6000.00 0.03 raymondville 18698.5\* reach 1 7259.00 2.68 14.22 14.22 0.000020 0.64 22234,52 6000,00 0.04 raymondville each 1 18244.7 1714 00 2.61 12.07 12.07 0.000017 0.49 9110.37 6000.00 0.04 raymondville each 1 18244.7\* 2255.00 2.61 12.43 12.43 0.000016 0.49 11288.46 6000.00 0.03 raymondville reach 1 18244.7 2856 00 2.61 12.76 12.76 0.000016 0.51 13242 88 6000.00 0.03 raymondville 18244.7\* 7259.00 2.61 14.20 14.20 0.000021 0.66 21918.51 6000.00 0.04 raymondville reach 1 17791 1714.00 2.53 12 05 12.05 0.000019 0.52 8812.48 6000.00 0.04 raymondville reach 1 17791. 2255.00 2,53 12.41 12.42 0.000017 0.52 10978.92 6000 00 0.04 raymondville 17791. 2856.00 2.53 12 74 12.74 0.000017 0.53 12947.63 6000 00 0.04 raymondville reach 1 17791 7259.00 2.53 14.19 14.19 0.000022 0.68 21612.34 6000.00 0.04 raymondville reach ' 17337.2 1714.00 2.45 12 04 12.04 0.000021 0.55 8516.46 6000.00 0.04 raymondville each ' 17337.2 2255.00 2.45 12.40 12.40 0.000019 0.54 10671.24 6000 00 0.04 raymondvilk each 1 17337.21 2856.00 2.45 12 73 12.73 0.000018 0.55 12654.25 6000.00 0.04 raymondville each 1 17337.2\* 7259.00 2.45 14.17 14.17 0.000023 21308.04 0.70 6000.00 0.04 raymondville each f 16883.5\* 1714.00 2.38 12.03 12.03 0.000024 0.58 8210.00 6000.00 0.04 raymondville reach 1 16883.51 2255.00 2.38 12.38 12.38 0.000021 0.57 10353.11 6000.00 0.04 raymondville reach 1 16883.5\* 2856.00 2 38 12.72 12.72 0.000020 0.57 12350.42 6000.00 0.04 raymondville reach 1 16863.5° 7259.00 2.38 14.16 14.16 0.000024 0.71 20993.29 6000.00 0.04 raymondville reach 1 16429.7 1714.00 2.31 12 00 12.01 0.000027 0.62 7863.27 6000.00 0.04 raymondville reach 1 16429.7\* 2255.00 2.31 12.37 12.37 0.000023 0.60 10041.55 6000 00 n n4 reach 1 16429.7 2856.00 2 31 12 70 12.70 0.000021 12053,16 0.59 6000.00 0.04 raymondville reach 1 16429.7\* 7259.00 2.31 14.14 14.14 0.000025 0.73 20685.10 6000.00 0.05 raymondville reach 1 15976 1714.00 2.23 11.98 11.98 0.000029 0.64 7522.41 5762.30 0.05 reach 1 raymondville 15976 2255.00 2.23 12.35 12.35 0.000025 0.62 9731.48 6000.00 0.04 raymondville reach 1 15976 2856.00 2.23 12.69 12.69 0.000023 0.62 11757.39 6000.00 0.04 15978 7259.00 2.23 14.12 14.13 0.000026 0.75 20378.41 6000.00 0.05 raymondville reach 1 15517.21 1714.00 2.16 11.94 11.96 0.000132 3703.64 5538.15 0.10 raymondville reach 1 15517.2\* 2255.00 2.16 12.32 12.33 0.000087 1.17 5882.29 5711.75 0.08 raymondville neach 1 15517.2\* 2856.00 2.16 12.67 12.67 0.000069 1.08 7865.54 6000.00 0.07 raymondville reach 1 15517.2 7259.00 2.16 14.10 14.10 0.000050 1.05 16469.44 6000.00 0.06 raymondville reach 1 15058.4 1714.00 2.08 11.82 11 87 0.000256 1.92 1508.19 1757.45 0.14 raymondville reach f 15058.4\* 2255.00 2.08 12.22 12.26 0.000266 2.04 2480.76 3334.25 0.14 raymondville reach 1 15058.4\* 2856.00 2.08 12.58 12.62 0.000238 3938,84 2.00 4873.07 0.14 raymondville reach 1 15058.4\* 7259.00 2.08 14.06 14.07 0.000112 1.57 12477.44 6000.00 0.10 raymondville reach 1 14599.6 1714.00 2.01 11.68 11.73 0.000291 2.03 1232.99 763.58 0.15 raymondville reach 1 14599.6\* 2255.00 2.01 12.05 12.12 0.000350 2.32 1559.95 1250.95 0.16 raymondville reach 1 14599 6 2856.00 2.01 12.40 12.47 0.000393 2.55 2131.76 2029.68 0.17 raymondville reach 1 14599.6 7259.00 13.95 2.01 13.99 0.000303 2.57 8052.72 5870.67 0.16 raymondville reach 1 14140.8 1714.00 1,93 11.53 11.59 0.000322 2 12 1101 66 0.15 656.86 raymondville reach 1 14140 8 2255.00 1.93 11.85 11.94 0.000414 2.49 1333 88 748.42 0.18 raymondville reach t 14140.8\* 2856.00 1.93 12.17 12.27 0.000498 2.82 1576 59 795.65 0.20 raymondville reach 1 14140.8 7259.00 1.93 13.65 13.77 0.000703 3.84 4608.66 3226.77 0.24 raymondville reach 1 13682 1714 00 1.86 11.37 11.44 0.000350 2 18 1008 04 528 14 0.16 raymondville reach 1 13682 2255.00 1.86 11.63 11.73 0.000486 2.65 1160 21 615.43 0.19 raymondville reach t 13682 2856.00 1.86 11.88 12.01 0.000633 3 11 1323 90 713.65 0.22

raymondville

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7259.00

1714 00

2255.00

2856.00

7259.00

1.86

1.53

1.53

1.53

1.53

12.96

10.91

11.16

11.40

12.30

0.001575

0.000176

0.000166

0.000156

0.000203

5.45

1.52

1.52

1.52

1.89

2317.48

3110.62

4277.29

5401.95

9955.04

1442.29

4476.22

4718 76

4832 DO

5302.67

0.35

0.11

0.11

D, 11

0.13

13.29

10.94

11.18

11.42

HEC-BAS Plan-P 50% D (Continued) River Reach Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area Top Width Froude # Chi (cfs) (ft) (ft) (ft) (ft) (fl/ft) (ft/s) (sq ft) (ft) raymondville reach.1 9870 1714.00 1.20 10.34 10.40 0.000425 2.22 1627.95 3473.45 0.17 raymondville reach 1 9670 2255.00 1.20 10.72 10.76 0.000279 1.89 3335.57 4974.57 0.14 ravmondville reach 1 9870 2856.00 1.20 11.05 11.07 0.000197 1.65 4948.82 4988.98 0.12 raymondville reach 1 9670 7259.00 1.20 11.83 11.85 0.000271 2.10 8860.58 5023.75 0.14 raymondville reach 1 6234 1714.00 0.6 8.37 8 54 0.000749 3.30 518.92 84.96 0.24 raymondville mach:1 6234 2255.00 0.64 8.91 9.15 0.001009 3.99 565.55 87.13 0.28 raymondville reach 1 6234 2856.00 0.64 9.51 5.09 9 71 0.001300 3.90 1512.63 3570.69 0.30 raymondville reach 1 6234 7259.00 0.64 10.84 10.86 0.000341 2.33 8788.02 6000.00 0.16 0.31 raymondville reach 1 4339 1714.00 7.55 3.61 7.57 0.000310 1.18 1447.37 591.68 0.13 reach 1 raymondville 4339 2255.00 0.31 7.92 4.20 7.95 0.000363 1.34 1677.41 638.31 0.15 raymondville reach f 4339 2856.00 0.31 8.27 5.46 8 30 0.000413 1.50 1907.36 680.49 0.16 raymondville reach 1 4339 7259.00 0.31 9.81 6.59 9.90 0.000714 2.39 3037.40 810.57 0.22 rzymondville reach 1 4300 1714.00 0.30 7.53 3.60 7.56 0.000318 1.19 1435.04 590.10 0.13 rzymondviše reach 1 4300 2255.00 0.30 7.91 4.19 7.93 0.000372 1.36 1663.07 636.45 0.15 raymondville reach 1 4300 2856.00 0.30 8.25 5.49 8.29 0.000424 1.51 1890.92 679.46 0,16 raymondville reach 1 4300 7259.00 0.30 9.78 6.57 9.67 0.000732 2.41 3007.78 805.98 0.22 raymondville reach 1 3878 00\* 1714 00 0.23 7.38 7.40 0.000372 1 28 1335.20 554.59 0.15 rzymondville reach 1 3878.00° 2255 00 0.23 7.73 7.76 0.000434 1.47 1537.04 586.85 0.16 raymondville reach 1 3878.00° 2856.00 0.23 8.05 8.09 0.000488 1 65 1728.20 603.07 0.17 raymondville reach 1 3878.00\* 7259.00 0.23 9.46 9.55 0.000785 2.53 3657.63 2840.00 0.23 3456.00° raymondville reach 1 1714 00 0.16 7.21 7.24 0.000419 1.41 1216.8 480.84 0.16 raymondville 3456.00\* reach 1 2255.00 0.16 7.52 7.56 0.000508 1.65 1382.54 648.38 0.17 3456.00 raymondville reach 1 2856.00 0.16 7.81 7.87 1598.26 0.000612 1.86 851.34 0.19 raymondy reach 1 3456.00\* 7259.00 0.16 9.18 9.25 0.000633 2.39 4615.22 2820.02 0.21 3034.00 raymondville reach 1 1714.00 0.09 6.99 7.03 0.000540 1.62 1145.94 921.56 0.18 raymondville reach 1 3034.00° 2255.00 0.09 7.28 7.33 0.000571 1.79 1675 32 1901.01 0.19 raymondville reach 1 3034.00° 2856.00 0.09 7.57 7.62 0.000547 2009.77 1.85 2240.99 0.18 raymondville reach 1 3034.001 7259.00 0.09 8.98 9.02 0.000423 2.10 5818.63 2860.38 0.17 2612.00° raymondville reach 1 1714 00 0.02 6.84 6.86 0.000307 1 41 2172 83 2204.72 0.14 raymondville reach 1 2612 001 2255 00 0.02 7.14 7.16 0.000285 1.44 2834 88 2238.12 0.14 raymondville reach 1 2612.00\* 2856 00 0.02 7.44 7.45 0.000264 1.46 3509.37 2277.21 0.13 raymondville reach 1 2612.00 7259.00 0.02 8.86 8.88 0.000253 1.77 7220.98 2870.48 0.14 2190 raymondville reach 1 1714.00 -0.05 6.78 6.79 0.000097 0.99 3642 65 2179.62 0.08 raymondville reach 1 2190 2255 00 -0.05 7.07 7.08 0.000113 1.12 4299.49 2443.63 0.09 raymondville reach 1 2190 2856,00 -0.05 7.37 7.38 0.000115 1.17 5037 R1 2479.29 0.09 raymondville reach 1 2190 7259.00 -0.05 B.78 8.79 0.000157 1.61 8747.43 2913.11 0.11 rzymondville reach 1 0 1714.00 -0.41 6.51 2.89 6.52 0.000160 1.16 3264 59 2522 02 0.10 raymondville reach 1 lo 2255 00 -0.41 6.78 3.48 6.79 0.000160 1.21 3950.11 2543.12 0.10 raymondville 0 reach: 1 2856.00 -0.41 7.08 5.55 7.09 0.000160 1.27 4757.25 3325 34 0.10 raymondville lo 7259.00 -0.41 8.43 6.14 8.44 0.000160 1.51 9370.64 3429.49 0.11 North Main reach 4 331370 410.00 96.81 103 97 99.87 104.06 0.000492 2.44 168.35 36.91 0.20 North Main reach 4 331370 573.00 96.81 105.23 100.50 105.34 0.000479 2.63 217.96 41.60 0.20 North Main reach 4 331370 770.00 96.81 106.53 101.12 106.66 0.000463 2.80 275.18 46.43 0.20 North Main reach 4 331370 1392.00 96.81 109.54 102.69 109.70 0.000453 3.23 431.50 57.59 0.21 North Main reach 4 330227 96.76 103.48 410.00 99.35 103.55 0.000399 2.23 183.83 39.69 0.18 North Main reach 4 330227 573.00 96,76 104.76 99.90 104.85 0.000387 2.41 237.54 44.25 0.18 330227 North Main reach 4 770.00 96.76 106.07 100.47 106.18 0.000374 2.58 298.96 48.95 0.18 North Main reach 4 330227 1392.00 96.76 109.08 101.93 109.23 0.000374 3.01 462.46 59.45 0.19 reach 4 330128 North Main 410.00 96.76 103.44 99.28 103.52 0.000413 2.31 177.44 36.28 0.18 North Main reach 4 330128 573.00 96.76 104.71 99.81 104.81 0.000421 2.53 226.49 40.84 0.19 reach 4 North Main 330128 770.00 96.76 106.02 100.40 106.13 0.000423 2.72 283.12 45.91 0.19 North Main reach 4 330128 96.76 1392.00 109.02 101.86 109.18 0.000435 3.17 438.74 57.61 0.20 North Main reach 4 330078 410.00 96.76 103.41 99.26 103.50 0.000419 2.32 36.22 176.65 0.19 North Main reach 4 330078 573.00 96.76 104.69 99.80 104.79 0.000426 2.54 225.58 40.75 0.19 North Main reach 4 330078 96.76 770.00 106.00 100.39 106.11 0.000427 2.73 282.09 45.83 0.19 North Mair reach 4 330078 1392.00 96.76 109.00 101.86 109.16 0.000438 3.18 437.41 57.52 0.20 reach 4 329975 North Main 410.00 97.01 103,29 100.02 103.43 0.000858 3.01 136.16 32.79 0.26 North Main reach 4 329975 573.00 97.01 104.57 100.64 104 73 0.000776 3.16 181.05 37.34 0.25 North Mair reach 4 329975 770.00 97.01 105.88 101.29 106.05 0.000711 3.31 232.97 41.99 0.25 North Main reach 4 329975 97.01 1392.00 108.88 102.88 109.10 0.000648 3.71 375.16 52.67 0.25 North Main reach 4 328000 410.00 95.26 102.35 97.87 102.42 0.000330 2.09 196.40 40.45 0.17 North Main reach 4 328000 573.00 95.26 103.69 98.42 103.76 0.000321 2.26 253.61 45.11 0.17 North Main 328000 reach 4 770.00 95.26 105.04 99.00 105,13 0.000313 2 42 317.95 49.83 0.17

HEC-RAS Plan. P. 50% D. (Continued) Q Total Min Ch El W.S. Elev Cnt W.S. River Sta E.G. Elev E.G. Slape Vel Chnl Flow Area Top Width Froude # Chi (cfs) ·(ft) (ft) (11) (fVft) (ft) (fl/s) (sq fl) (ft) North Main reach 4 328000 1392.00 95.26 108.06 100 47 108 19 0.000329 2.88 60.35 0.18 reach 4 North Main 326000 410.00 94.56 101.63 97.39 101.70 0.000385 2.19 187.63 40.83 0.18 North Main reach 4 573.00 326000 94.56 103.01 97.95 103.09 0.000354 2.31 247.67 46.27 0.18 North Main reach 4 770.00 94.56 104.39 98.54 104.49 0.000332 315.63 2.44 51.75 0.17 North Main each 4 326000 1392.00 94.56 107.40 100.02 107.52 0.000335 2.85 488.77 63.48 0.18 reach 4 324083 101.03 410.00 94.05 96 40 101 D9 0.000267 1,90 216.21 44.36 0.15 North Main reach 4 324083 573.00 94.05 102.46 96.92 102.52 0.000249 2.02 283.23 49.81 0.15 North Mair each 4 770.00 94.05 103 87 97.47 103.95 0.000238 2.15 55.24 357.59 0.15 North Main reach 4 324083 1392.00 94.05 106.85 98.88 106,96 0.000257 2.58 539.10 66.67 0.16 North Main reach 4 324005 410.00 94.05 101.01 96 40 101 07 0.000270 1.90 215.24 44.28 0.15 North Main each 4 324005 573.00 94.05 102.44 96.92 102 50 0.000251 2.03 282.22 49.73 0.15 North Main reach 4 324005 770.00 94.05 103.85 97.47 103 93 0.000240 2.16 356.52 55.16 0.15 each 4 324005 1392.00 94.05 106.83 98,88 106.94 0.000259 2.59 537.70 66.59 0.16 North Main 322000 93.17 reach 4 410.00 100.42 95.84 100 48 0.000317 2.04 200,55 41.49 0.16 North Main reach 4 322000 573.00 93.17 101.89 96.40 101.96 0.000288 2.16 265.68 47.02 0.16 each 4 North Main 770.00 322000 93.17 103.33 96.99 103.41 0.000273 2.28 337.43 52.45 0.16 North Main reach 4 322000 1392.00 93.17 106.29 98.48 106.37 0.000302 2.42 835.48 363.10 0.17 North Main each 4 320965 410.00 93.05 100,00 95.85 100.09 0.000464 2.40 171.18 36 63 0.20 North Main reach 4 320965 573.00 93.05 101.51 96.44 101.61 0.000404 2.48 230.60 41.82 0.19 North Main reach 4 320965 93.05 770.00 102.98 97.06 103.08 0.000373 2.61 295.49 46.85 0.18 North Main reach 4 320985 1392.00 93.05 105.84 98.63 106.00 0.000408 3.13 444.07 56.65 0.20 North Main reach 4 320873 410.00 93.05 99.95 95.85 100.04 0.000476 2.42 169.52 36.47 0.20 North Main reach 4 320873 573.00 93.05 101.47 96.44 101.57 0.000412 2.50 228.96 41.69 0.19 North Main reach 4 320873 770.00 93.05 102.94 97.06 103.05 0.000379 2.62 293.80 46.72 0.18 North Main reach 4 320873 1392.00 93.05 105.81 98.63 105.96 0.000414 3.15 441.82 56.52 0.20 North Main reach 4 320000 410.00 92.95 99.57 95.52 99.65 0.000417 2.25 182.22 40.31 0.19 North Mair reach 4 320000 573.00 92.95 101.16 96.08 101.24 0.000341 2.28 250.98 46.39 0.17 North Main reach 4 320000 770.00 92.95 102.66 96.67 102.74 0.000306 2.37 324.79 52.12 0.17 North Main reach 4 320000 1392.00 92.95 105.50 98.13 105.63 0.000333 2.85 488.63 63 07 0.18 North Main reach 4 410.00 91.12 98.87 93.95 98.94 0.000306 2.05 200.37 39.67 0.16 North Main reach 4 318000 573.00 91.12 100.58 94.56 100.65 0.000259 2.10 273.15 45.76 0.15 North Mair 318000 reach 4 770.00 91.12 102.12 95.19 102.20 0.000244 2.21 348.07 51.27 0.15 North Main reach 4 318000 1392.00 91.12 104.88 96.76 105.00 0.000297 2.77 503.02 61.12 0.17 North Main reach 4 317530 410.00 91.23 98.72 94.19 98.79 0.000330 201.31 43.71 2.04 0.17 North Mein 317530 reach 4 573.00 91.23 100.46 94.78 100.52 0.000256 2.02 283.94 51.52 0.15 North Main reach 4 317530 770.00 91.23 102.02 95.39 102.08 0.000228 2.08 369.59 58.52 0.15 North Main reach 4 317530 1392.00 91.23 104.76 96.87 104.86 0.000261 2.54 547.10 70.81 0.16 North Main reach 4 317452 410.00 91.23 98.70 43.59 94.20 98.76 0.000335 2.05 200.14 0.17 North Main 317452 reach 4 573.00 91.23 100.44 94.78 100.50 0.000259 2.03 282.88 51,43 0.15 North Main reach 4 317452 770.00 91.23 102.00 95.39 102.07 0.000230 2.09 368.52 58.44 0.15 North Main reach 4 317452 1392.00 91.23 104.74 0.000263 96.87 104.84 2.55 545.61 70.72 0.16 North Main reach 4 317000 410.00 90.93 98.54 93.87 98.61 0.000347 2.14 191.70 0.17 39,29 North Main reach 4 317000 573.00 90.93 100.31 94.48 100.38 0.000277 2.15 267.13 45.81 0.16 North Main 770.00 90.93 101.88 95,12 101.98 0.000255 2.24 343.49 51.59 0.15 90.93 North Main reach 4 317000 1392.00 104.59 96.66 104.71 0.000310 2.80 496.84 61.57 0.17 North Main 157900 reach 2 40.00 90.87 92.00 91.41 92.05 1.80 22.17 21.96 0.001841 0.32 North Main reach 2 157900 100.00 90.87 92.66 91.84 92.77 0.002312 2.65 37.72 24.65 0.38 North Mair 157900 reach 2 188.00 90.87 95,40 92.32 95.44 0.000288 1.56 120,45 35.70 0.15 North Main reach 2 157900 515.00 90.87 97.21 93.55 97.32 0.000598 2.69 191.49 42.97 0.22 North Main reach 2 157788 40.00 90.87 91.42 91.34 91.59 0.014955 3.35 11.94 22.67 0.81 North Mair reach 2 157788 100.00 90.87 92.31 91.74 92.45 0.003574 2.99 33.50 25.30 0.46 North Main 157788 95.38 reach 2 188.00 90.87 92.18 95.42 0.000255 1.51 124,60 34.57 0.14 North Main each 2 157788 515.00 90.87 97.15 93.35 97.26 0.000589 2.67 192.67 42.38 0.22 North Main reach 2 157777 Inline Weir North Main reach 2 157707 40.00 88.33 89.90 89.21 89.97 0.002112 2.10 19.01 16.28 0.34 North Main reach 2 157707 100.00 88.33 92.31 89.77 92.34 0.00033 1.43 69.99 26.04 0.15 North Mair 157707 88.33 reach 2 188.00 95.37 90,36 0.000106 1.12 168.34 38.01 0.09 North Main 97.22 reach 2 157707 515.00 88,33 97.14 91.83 0.000300 2.13 241.69 44.87 0.16 North Main reach 2 157442 40.00 67.38 89.67 88.30 0.000559 1.34 29.84 18.32 89.70 0.19 North Mair reach 2 157442 100.00 87.38 92.26 88.88 0.000160 91.02 92.28 1.10 28.83 0.11 North Main 157442 188.00 87.38 reach 2 95.36 89.49 95.37 0.000067 0.94 199.78 41.37 0.08 North Main reach 2 157442 515.00 87.38 97.09 91.01 97.15 0.000209 1.66 277.48 48.25 0.14

HEC-RAS Plan. P 50% D (Continued)

| River             | Reach     | River Sta                              | Q Total          | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope    | Vel Chnl | Flow Area | Top Width | Froude # Chl |
|-------------------|-----------|--|------------------|----------------|----------------|----------------|----------------|---------------|----------|-----------|-----------|--------------|
| No. of Add .      |           |  | (cfs)            | (ft)           | (fl)           | (ft)           | (ft)           | (ft/ft)       | (fVs)    | (sq ft)   | (ft)      |              |
| North Main        | reach 2   | 157290                                 | 40.00            | 87.38          | 89.57          | 88.30          | 89.60          | 0.000663      | 1.42     | 28.10     |           | 0.2          |
| North Main        | reach 2   | 157290                                 | 100.00           | 87.38          | 92.23          | 88.88          | 92.25          | 0.000164      | 1.11     | 90.10     | 28.70     |              |
| North Main        | reach 2   | 157290                                 | 188.00           | 87.38          | 95.35          | 89.49          | 95.36          | 0.000068      | 0.94     | 199.22    | 41.32     |              |
| North Main        | reach 2   | 157290                                 | 515.00           | 87.38          | 97.05          | 91.01          | 97.11          | 0.000213      | 1.87     | 275.49    | 48.09     | 0.1          |
| North Main        | reach 2   | 156900                                 |                  |                |                |                |                |               |          |           |           |              |
| North Main        | reach 2   | 156900                                 | 40.00            | 87.38          | 89.39          | 88.06          | 89.41          | 0.000376      | 1.10     | 36.30     | 22.48     |              |
| North Main        |           |  | 100.00           | 87.38          | 92.18          | 88.52          | 92.19          | 0.000091      | 0.88     | 113.32    | 32.70     | 0.0          |
| North Main        | reach 2   | 158900                                 | 188.00           | 87.38          | 95.33          | 89.03          | 95.34          | 0.000043      | 0.80     | 234.28    | 44.25     | 0.0          |
| TACHER MARK       | reach 2   | 156900                                 | 515.00           | 87.38          | 96.99          | 90.35          | 97.04          | 0.000148      | 1.64     | 313.18    | 50.38     | 0.1          |
| North Main        | reach 2   | - I - Frence                           |                  |                |                |                |                |               |          |           |           |              |
| North Main        | reach 2   | 155952                                 | 40.00            | 87.33          | 88.96          | 87.94          | 88.98          | 0.000543      | 1.17     | 34.27     | 26.17     | 0.10         |
| North Main        | 11.7      | 155952                                 | 100.00           | 87.33          | 92.12          | 88.35          | 92.13          | 0.000058      | 0.70     | 141.99    | 42.08     | 0.0          |
| North Main        | reach 2   | 155952                                 | 188.00           | 87.33          | 95.30          | 68.80          | 95.31          | 0.000026      | 0.62     | 301.67    | 58.14     | 0.0          |
| (ACM IT INVENTION | reach 2   | 155952                                 | 515.00           | 87.33          | 96.90          | 89.97          | 96.92          | 0,000089      | 1.29     | 400.70    | 66.18     | 0.0          |
| North Mair        | reach 2   | 155846                                 | 40.00            |                |                |                |                |               |          |           |           |              |
| North Mair        |           | 155846                                 | 40.00            | 87.31          | 88.90          | 87.84          | 88.92          | 0.000569      | 1.24     | 32.31     | 23.03     | 0.1          |
| North Main        | reach 2   | 155848                                 | 100.00           | 87.31          | 92.11          | 88.28          | 92.12          | 0.000071      | 0.81     | 123.88    | 33.81     | 0.0          |
| North Mana        | reach 2   | 155846                                 | 188.00           | 87.31          | 95.30          | 88.76          | 95.31          | 0.000036      | 0.76     | 246.43    | 43.18     | 0.0          |
|                   | M. M.     | 155646                                 | 515.00           | 87.31          | 96.88          | 90.02          | 96.92          | 0.000135      | 1.62     | 318.26    | 47.82     | 0.1          |
| North Main        | reach 2   | 155779                                 | 40.00            | 97.00          | 97.50          | 07.70          |                |               |          |           |           |              |
| North Main        | reach 2   | 155779                                 | 40.00            | 87.31          | 88.88          | 87.70          | 88.89          | 0.000235      | 0.82     | 48.64     | 33.28     | 0.12         |
| North Main        | reach 2   | 155779                                 | 100.00           | 87.31          | 92.11          | 88.02          | 92.11          | 0.000033      | 0.58     | 171.23    | 42.65     | 0.0          |
| North Main        | reach 2   | 155779                                 | 188.00           | 87.31          | 95.30          | 88.39          | 95.30          | 0.000019      | 0.59     | 321.20    | 51.45     | 0.0          |
| medi              | reacti 2  | 135779                                 | 515.00           | 87.31          | 96.87          | 89.38          | 96.90          | 0.000073      | 1.27     | 405.83    | 55.80     | 0.00         |
| North Main        | reach 2   | 155696                                 | 40.00            | 97.74          |                |                |                |               |          |           |           |              |
| North Main        | reach 2   | 155696                                 | 100.00           | 87.31          | 88.84          | 87.78          | 88.86          | 0.000445      | 1.09     | 36.60     | 26.02     | 0.16         |
| North Main        | reach 2   | 155696                                 |                  | 87.31          | 92.09          | 88.16          | 92.10          | 0.000056      | 0.74     | 135.98    | 35.24     | 0.07         |
| North Main        | reach 2   | 155696                                 | 188.00<br>515.00 | 87.31          | 95.28          | 88.60          | 95.29          | 0.000031      | 0.71     | 263.17    | 44.43     | 0.05         |
|                   | I Vand &  | 1,0000                                 | 313.00           | 87.31          | 96.85          | 89.76          | 96.89          | 0.000119      | 1.53     | 336.45    | 48.95     | 0.10         |
| North Main        | reach 2   | 154900                                 | 40.00            | 86.57          | 99.00          |                |                | 2 2 2 2 2 2 2 |          |           |           |              |
| North Main        | reach 2   | 154900                                 | 100.00           | 86.57          | 88.63<br>92.05 | 87.08<br>87.45 | 88.64          | 0.000178      | 0.82     | 48.90     | 26.95     | 0,11         |
| North Main        | reach 2   | 154900                                 | 188.00           | 86.57          |                |                | 92.06          | 0.000036      | 0.63     | 158.79    | 37.28     | 0.05         |
| North Main        | reach 2   | 154900                                 | 515.00           | 86.57          | 95.26<br>96.78 | 87.90          | 95.26          | 0.000023      | 0.64     | 293,74    | 46.94     | 0.05         |
|                   | 102012    | 10100                                  | 313.001          | 30.37          | 90.76          | 89.08          | 96.81          | 0.000092      | 1.40     | 368.50    | 51.52     | 0.09         |
| North Main        | reach 2   | 153295                                 | 40.00            | 85.60          | 99.42          | 96 74          | 20.40          |               |          |           |           |              |
| North Main        | reach 2   | 153295                                 | 100.00           | 85.60          | 88.42          | 86.21          | 88.42          | 0.000105      | 0.72     | 55,56     | 24.50     | 0.08         |
| North Main        | reach 2   | 153295                                 |                  |                | 92.00          | 86.68          | 92.00          | 0.000031      | 0.61     | 164.15    | 36.16     | 0.05         |
| North Main        | reach 2   | 153295                                 | 188.00<br>515.00 | 85.60          | 95.23          | 87.20          | 95.24          | 0.000022      | 0.53     | 298.61    | 47.20     | 0.04         |
| TOTOL HAMI        | 100012    | 100280                                 | 513.00           | 85.60          | 96.63          | 88.55          | 96.66          | 0.000093      | 1.40     | 367.98    | 52.05     | 0.09         |
| North Main        | reach 2   | 153200                                 | 40.00            | 95 80          | 99.40          | 96.24          |                | 0.000100      |          |           |           |              |
| North Main        | reach 2   | 153200                                 | 100.00           | 85.60<br>85.60 | 88.40          | 86.21          | 88.41          | 0.000107      | 0.72     | 55.23     | 24.45     | 0.08         |
| North Main        | reach 2   | 153200                                 | 188.00           | 85.60          | 91.99<br>95.22 | 86.68          | 91.99          | 0.000031      | 0.61     | 163.74    | 36.13     | 0.05         |
| North Main        | reach 2   | 153200                                 | 515.00           |                |                | 87.20          | 95.23          | 0.000022      | 0.63     | 298.22    | 47.17     | 0.04         |
| Man Glave Sub     | Tumai 2   | 130200                                 | 313.00           | 85.60          | 96.61          | 88.54          | 96.64          | 0.000094      | 1.40     | 367.00    | 51.98     | 0.09         |
| North Main        | reach 2   | 152900                                 | 40.00            | 85.22          | 88.38          | 95.00          | 90.20          | 0.000000      |          |           |           |              |
| North Main        | reach 2   | 152900                                 | 100.00           | 85.22          | 91.98          | 85.96          | 88.39          | 0.000058      | 0.57     | 70.79     | 28.92     | 0.06         |
| North Main        | reach 2   | 152900                                 | 188.00           | 85.22          | 95.21          | 86.37<br>86.82 | 91.98<br>95.22 | 0.000020      | 0.51     | 195.31    | 40.41     | 0.04         |
| North Main        | reach 2   | 152900                                 | 515.00           | 85.22          | 96.59          | 88.03          | 96,61          | 0.000015      | 0,55     | 342.99    | 50.86     | 0.04         |
|                   | zi ezgis. | 1                                      | 0.5.00           | 03.22          | 30.33          | 60.03          | 30.01          | 0.0000871     | 1,24     | 416.08    | 55.31     | 0.08         |
| North Main        | reach 2   | 150900                                 | 40.00            | 84.97          | 88.30          | 85.46          | 88.30          | 0.000031      | 2.45     |           |           |              |
| North Main        | reach 2   | 150900                                 | 100.00           | 84.97          | 91.95          | 85.85          | 91.96          | 0.000031      | 0.45     | 89.75     | 32.91     | 0.05         |
| North Main        | reach 2   | 150900                                 | 188.00           | 84.97          | 95.19          | 86.28          | 95.20          | 0.000010      | 0.43     | 233.20    | 45.64     | 0.03         |
| North Main        | reach 2   | 150900                                 | 515.00           | 84.97          | 96.48          | 87.43          | 96.50          |               | 0.47     | 399.44    | 56.95     | 0.03         |
|                   | -         | 47 T A 3 W                             |                  | - 1,57         | 30,40          | 57.43          | 30.50          | 0.000048      | 1.08     | 475.59    | 61.49     | 0.07         |
| North Main        | reach 2   | 150837                                 | 40.00            | 84.27          | 88.29          | 85.01          | 88.29          | 0.000016      | 0.34     | 116.49    | 37.80     | 0.01         |
| North Main        | reach 2   | 150637                                 | 100.00           | 84.27          | 91.95          | 85.36          | 91.95          | 0.000008      | 0.38     | 279.45    | 52.07     | 0.03         |
| North Main        | reach 2   | 150637                                 | 188.00           | 84.27          | 95.19          | 85.75          | 95.19          | 0.000007      | 0.40     | 470.43    | 65.39     | 0.03         |
| North Main        | reach 2   | 150637                                 | 515.00           | 84.27          | 96.48          | 86.81          | 96.49          | 0.000046      | 0.92     | 560.11    | 91.92     | 0.03         |
|                   |           | 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                  |                |                |                |                |               | 0.32     | 330.11    | 31.92     | 0.07         |
| North Main        | reach 2   | 150569                                 | 40.00            | 84.27          | 88.28          | 85.01          | 88.28          | 0.000016      | 0.34     | 116.12    | 37.76     | 0.03         |
| North Main        | reach 2   | 150569                                 | 100.00           | 84.27          | 91.95          | 85.36          | 91.95          | 0.000008      | 0.36     | 279.25    | 52.06     | 0.03         |
| North Main        | reach 2   | 150569                                 | 188.00           | 84.27          | 95.19          | 85.75          | 95.19          | 0.000007      | 0.40     | 470.20    | 65.37     | 0.03         |
| North Main        | reach 2   | 150569                                 | 515.00           | 84.27          | 96.47          | 86.B1          | 96.49          | 0.000046      | 0.92     | 559.82    | 91.81     | 0.03         |
|                   | 1.1       |  |                  |                |                |                |                |               | 0.02     | 353.02    | 31.01     | 0.07         |
| North Main        | reach 2   | 148900                                 | 40.00            | 84.27          | 88.25          | 84.79          | 88.25          | 0.000021      | 0.39     | 101.30    | 32.33     | 0.04         |
| North Main        | reach 2   | 148900                                 | 100.00           | 84.27          | 91.93          | 85.20          | 91.94          | 0.000011      | 0.41     | 244.19    | 45.30     | 0.03         |
| North Main        | reach 2   | 148900                                 | 188.00           | 84.27          | 95.18          | 85.67          | 95.18          | 0.000010      | 0.46     | 409.66    | 56.76     | 0.03         |
| North Main        | reach 2   | 148900                                 | 515.00           | 84.27          | 96.39          | 86.90          | 96.41          | 0.000046      | 1.07     | 481.05    | 61.05     | 0.07         |
|                   |           |  |                  |                |                |                |                |               |          |           | 31.00     | 5.01         |
| North Main        | reach 2   | 147966                                 | 40.00            | 83.76          | 88.22          | 84.95          | 88.23          | 0.000073      | 0.68     | 58.84     | 20.32     | 0.07         |
| North Main        | reach-2   | 147966                                 | 100.00           | 83.76          | 91.92          | 85.81          | 91.93          | 0.000034      | 0.65     | 154.09    | 31.16     | 0.05         |
| North Main        | reach 2   | 147986                                 | 188.00           | 83.76          | 95.17          | 86.29          | 95.17          | 0.000027      | 0.69     | 271.07    | 41.28     | 0.05         |
| North Main        | reach 2   | 147966                                 | 515.00           | 83.76          | 96.30          | 87.99          | 96.34          | 0.000130      | 1.61     | 319.97    | 45.39     | 0.11         |
|                   |           |  |                  |                |                |                |                |               |          | 3.0.0     | 10.00     | V.11         |
| North Main        | reach 2   | 147814                                 | 40.00            | 83.76          | 88.21          | 84.77          | 88.22          | 0.000044      | 0.55     | 72.89     | 24.54     | 0.06         |
| Vorth Main        | reach 2   | 147814                                 | 100.00           | 83.76          | 91.91          | 85.35          | 91.92          | 0.000021      | 0.53     | 187.09    | 37.16     | 0.04         |
| North Main        | reach 2   | 147814                                 | 188.00           | 83.76          | 95.16          | 85.97          | 95.16          | 0.000017      | 0.58     | 325.48    | 48.15     | 0.04         |
| North Main        | reach 2   | 147814                                 | 515.00           | 83.76          | 96.29          | 87.51          | 96.32          | 0.000083      | 1.35     | 382.20    | 51.98     | 0.09         |

HEC-RAS Plan. P 50% N (Continued)
Peach River Sia Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (f1) (ft) (ft/ft) (ft/s) (sq ft) (ft) North Main reach 2 146900 40.00 83.26 88.19 84.07 88.20 0.000018 0.39 29.93 102.51 0.04 North Main reach 2 146900 100.00 83.26 91.90 84.58 91.90 0.000011 0.42 237.52 42.94 0.03 reach 2 North Main 148900 188.00 83.26 95.15 85.14 95.15 0.000010 D.48 395.38 54.33 0.03 North Main reach 2 146900 515.00 B3.26 B6.55 96,23 96.25 0.000052 1.13 456,35 58.14 0.07 North Main each 2 145333 40.00 83.11 88.18 83.73 88 18 0.000012 0.34 118.95 32.21 0.03 North Main reach 2 145333 100.00 83.11 91.89 84.20 91.89 0.000009 0.38 262.13 45.25 0.03 North Mair each 2 145333 188.00 83.11 95.13 84.73 95 14 0.000008 0.44 429.49 57.85 0.03 North Main reach 2 145333 515.00 83.11 96.16 86.08 96,17 0.000044 1.05 490.52 61.67 0.07 North Main reach 2 145285 40.00 83.11 88.17 83.73 88 18 0.000012 0.34 118.85 32.20 0.03 North Mair reach 2 145285 100,00 83.11 91,89 84.20 91.89 0.000009 0.38 262.03 45.24 0.03 North Main reach 2 188.00 83.11 95.13 84.73 95 14 0.000008 0.44 429.37 57.84 0.03 North Main reach 2 145285 515.00 83.11 96.16 86.08 96.17 0.000030 0.87 1054.06 2238.25 0.05 North Main 144900 reach 2 40.00 83.06 88.17 83.56 88.17 0.000007 0.27 148.89 37.56 0.02 North Main reach 2 144900 100.00 83.06 91.88 83.95 91.89 0.000006 0.32 310.77 49.66 0.02 North Main reach 2 144900 188.00 83.06 95,13 84.39 95.13 0.000006 0.38 568.20 503.93 0.02 North Main reach 2 144900 515.00 83.06 96.15 85.56 96.16 0.000019 0.73 1731.94 2334.51 0.04 North Main 144259 reach 2 482.00 78.00 88.11 80.37 88.13 0.000062 1 34 359.48 49.85 0.09 North Main reach 2 144259 1051.00 78.00 91.79 81.85 91.84 0.000079 1.88 563.65 61.85 0.10 North Main reach 2 144259 1858.00 78.00 94.98 83.44 95.08 0.000097 2.51 780.00 73.71 0.12 North Main reach 2 144259 4804.00 78.00 95.35 87,38 95.92 0.000563 6.15 1413.60 7568.91 0.29 North Main ach 2 144227 Culver North Main reach 2 144198 88.00 482.00 78.00 80,37 88.02 0.000065 1.36 354.03 49 54 0.09 North Main reach 2 144196 78.00 1051.00 91.21 81.85 91.27 0.000096 2.00 528 25 59.68 0.11 North Main reach 2 144196 1858.00 78.00 93.20 83.44 93.33 0.000159 2.91 654.53 67.09 0.15 North Main reach 2 144196 4804.00 78.00 95.37 87.38 95.90 0.000537 6.02 1658.58 7701.31 0.29 North Main reach 2 143766 482.00 80.00 87.91 83.00 87.97 0.000190 1.95 246.76 47.41 0.15 reach 2 North Main 143766 1051.00 80.00 91.10 84.46 91,20 0.000198 2.53 416.88 59.30 0.16 reach 2 North Main 143766 1858.00 80.00 93.03 85.98 93.22 0.000287 3.55 538.08 66.45 0.20 North Main reach 2 143766 4804.00 80.00 95.43 89.71 95.55 0.000255 3.89 8006.19 8954.66 0.20 North Main reach 2 142844 482.00 80.00 87.76 82.81 67.81 0.000165 1 84 261.35 49 47 0.14 North Main reach 2 142844 1051.00 80.00 90.94 84.19 91.03 0.000178 2.41 437.07 61.03 0.15 North Main reach 2 142844 1858.00 80.00 92.79 85.64 92.97 0.000266 3,42 556.29 67.80 0.20 North Main reach 2 142844 4804.00 80.00 95.33 89.27 95.38 0.000122 2.72 11670,98 9169.22 0.14 North Main reach 2 142821 Bridge North Main reach 2 142771 482.00 80.00 87.73 82.51 87.78 0.000163 1.85 260.49 48.45 0.14 North Main reach 2 142771 1051.00 80.00 90.91 83.97 91.00 0.000181 2.43 433.27 60.03 0.16 North Main reach 2 142771 1858.00 80.00 92.75 85.52 92.93 0.000272 3.45 549.61 66.21 0.20 North Main reach 2 142771 4804.00 80.00 95.18 89.25 95,30 0.000237 3.76 8202.92 8923.67 0.19 North Main neach 2 141205 482.00 80.00 87.49 82.36 87.54 0.000147 271.03 1.78 49 44 0.13 North Main reach 2 141205 1051.00 80.00 90.64 83.70 90.73 0.000171 2.38 443.08 59.96 0.15 reach 2 North Main 141205 1858.00 85.15 80.00 92.33 92.52 0.000273 3.43 549.53 65.68 0.20 North Main reach 2 141205 4804.00 80.00 94.96 88.76 95.01 0.000124 2.73 11457.00 8885.67 0.14 North Main reach 2 140152 482.00 80.00 87.31 B2.62 87.37 0.000201 1.95 246.67 50.16 0.16 North Main reach 2 140152 1051.00 80.00 90.44 84.06 90.53 0.000209 425.08 2.47 63.79 0.17 North Main reach 2 140152 1858.00 80.00 92.02 85.54 92.21 0.000327 3.55 530.98 70.58 0.22 North Main reach 2 140152 4804.00 80.00 94.83 89.15 94.88 0.000131 11249.08 2,72 9008.84 0.14 North Main reach 2 140137 Bridge North Main reach 2 140107 482.00 78.00 87.31 80.62 87.34 0.000087 1.46 329.90 54.16 0.10 North Main reach 2 140107 1051.00 78.00 90.44 82.15 90.50 0.000117 2.03 519.23 66.79 0.13 North Main reach 2 140107 1858 00 78.00 91.89 83.72 92.04 0.000209 3.03 620.64 72.70 0.17 North Main reach 2 140107 4804.00 78.00 94.80 94.83 0.000089 2.36 11295.36 6548.52 0.12 North Main reach 2 138870 482.00 78.00 87.21 80.28 87.25 0.000066 1.70 358.83 56.05 0.10 North Main reach 2 138870 1051.00 78.00 90.28 81.68 90.37 0.000109 2.65 548.10 67.43 0.13 North Main reach 2 138870 1858.00 78.00 91.52 83.25 91.75 0.000237 4.17 634.50 72.06 0.20 North Main reach 2 138870 4804.00 78.00 94.70 87.46 94.73 0.000081 2,82 8905.65 13699.41 0.12 North Main reach 2 137387 482 00 78.00 87.11 80.28 87.16 0.000069 1.72 353.27 55.80 0.10 North Main reach 2 137387 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537.50 67.02 0.14 North Main reach 2 137387 1858 00 78.00 91.14 91.39 83.26 0.000265 4.32 608.07 70.84 0.21 North Main reach 2 137387 4804.00 78.00 94.26 87.47 94.51 0.000311 4574.17 5.42 8308,34 0.24 137364 North Main reach 2 482.00 78.00 87.11 80.28 87.15 0.000069 1.73 352.94 55.78 0.10 North Main reach 2 137364 1051.00 78.00 90.11 81.69 90.21 0.000115 2.70 537.38 67.01 0.14

HEC-RAS Plan. P. 50% D. (Continued) River Reach River Sta O Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Top Width Flow Area Froude # Chi (cfs) (ft) (ft/ft) (ft/s) (sq fi) (ft) North Mair reach 2 137364 1858 00 78.00 91.13 83.26 91.39 0.000265 4.33 607,75 70.82 0.21 North Main reach 2 137364 4804.00 78.00 94.26 87.48 94.51 0.000312 5.43 4563.01 8303.33 0.24 137349 North Main reach 2 Bridge North Main reach 2 137334 482.00 78.00 87.09 80.28 87.13 0.000070 55.71 1.73 351.96 0.10 North Main reach 2 137334 1051.00 78.00 90.10 81,69 90.21 0.000115 2.70 537.00 66.99 0.14 North Main mach 2 137334 1858.00 78.00 91.12 83.26 91.37 0.000266 4.33 606.77 70.77 0.21 North Main reach 2 137334 4804.00 78.00 93.72 87.47 94.24 0.000551 7.05 2875.40 7114.87 0.32 North Main reach 2 137249 482.00 78.00 80.54 87.07 87.13 0.000093 1.98 319.56 52.68 0.12 North Main reach 2 137249 1051.00 78.00 90.06 82.09 90.19 0.000151 3.06 495.04 64.52 0.16 North Main reach 2 137249 1858.00 78.00 91.01 83.79 91.33 0.000352 4.93 557.69 67.93 0.24 4804.00 North Main reach 2 137249 78.00 92.13 88.26 93.82 0.001684 11.41 812.51 3625.71 0.54 North Main reach 2 137150 482.00 78.00 87.07 80.41 87.12 0.000081 1.85 333.21 53.71 0.11 North Main reach 2 137150 1051.00 78.00 90.06 81.88 90.17 0.000133 2.88 510.40 64.88 0.15 North Mair reach 2 137150 1858 00 78.00 91.00 83.52 91.29 0.000312 573.00 4.65 68.36 0.23 North Mair reach 2 137150 4804.00 78.00 92.02 87.85 93.63 0.001565 10.97 646.32 2219.61 0.52 North Main 135957 reach 2 482.00 78 00 86 99 80,18 87.03 0.000064 1.64 363.76 57.03 0.10 North Main 135957 reach 2 1051 00 78.00 89.93 81.52 90.02 0.000107 2.58 547.33 67.85 0.13 North Ma reach 2 135957 1858.00 78.00 90.78 83.04 90.96 0.000210 3.79 1404.49 1303.38 0.19 North Main 135957 reach 2 4804.00 78.00 91.89 87.09 92.26 6.43 3675.88 2911.60 0.31 135841 North Main reach 2 482.00 78.00 86.97 80.23 87.02 0.000068 1.70 352.95 55.69 0.10 North Main reach 2 135841 1051.00 78.00 89.90 81 60 90.00 0.000115 2.67 531.58 66.34 0.14 North Main 135841 reach 2 1858.00 78.00 90.71 83.15 90.93 0.000249 4.11 1166,26 1394.76 0.20 North Main reach 2 135841 4804.D0 78.00 91.79 87.27 92.20 0.000604 6.76 3722.67 5968.56 0.32 North Main reach 2 135233 482.00 78.00 86.94 80.32 86.98 0.000066 1.57 343.02 54.99 0.10 North Main reach 2 135233 1051.00 2.46 78.00 89 85 81 73 89 94 0.000108 518.88 68,03 0.13 North Main 135233 reach 2 1858.00 78.00 90.68 83.13 90.78 0.000151 3.06 3640.15 2880.99 0.16 North Main reach 2 135233 4604.00 78.00 91.99 86.98 92.00 0.000054 1.95 17110.72 9184.99 0.09 North Main reach 2 482.00 78.00 86 93 80.04 86.95 0.000046 1.33 402.87 63.61 0.08 North Main reach 2 134690 1051.00 78.00 89.82 81.31 89.88 0.000069 1.99 951.25 598.39 0.11 North Main reach 2 134690 1858.00 78.00 90.66 82.63 90.71 0.000084 8801.00 2.30 4700.11 0.12 134690 North Main each 2 4804.00 78.00 91.97 86 09 91.98 0.000041 1.73 18918.18 9799.69 0.08 North Main 134647 reach 2 Bridge North Mair 134606 482.00 reach 2 78.00 86.88 81.96 86 94 0.000134 2.02 312.27 70.30 0.14 North Main reach 2 134608 1051.00 78.00 89.72 83.30 89 81 0.000141 1865.97 2.60 1308.43 0.15 North Main reach 2 134606 1858.00 78.00 90.62 84 81 90.66 0.000108 5361.39 8767.69 0.13 North Mair each 2 4804.00 78.00 91.98 90.76 91.96 0.000042 1 64 19593.63 9786.96 80.0 North Mair reach 2 134537 482.00 86.89 80.04 78.00 86 92 0.000047 1 34 400.46 63.45 0.08 North Main 134537 reach 2 1051.00 78.00 89.73 81.31 89.79 0.000073 2.03 895 85 574.64 0.11 North Mair 134537 reach 2 1858.00 78.00 90.58 82.63 90.64 0.000095 2.43 4427 87 8738.24 0.12 North Main 134537 reach 2 4804.00 78.00 91.95 86.09 91.96 0.000043 1.76 18672.14 9780 59 0.09 North Mair reach 2 132334 962.00 78.00 86.50 B1.36 86.63 0.000272 2.87 346 60 58 13 0.19 North Main reach 2 132334 1985.00 78.00 89.09 83.16 89.36 0.000387 4.22 676.93 2169.80 0.24 North Mair 132334 3435.00 reach 2 78.00 90.21 84.98 90.30 0.000208 3.34 6543 08 8425 D9 0.18 North Mair each 2 132334 8788.00 78.00 91,79 90.51 91.80 0.000098 2.51 21371.59 9649.58 0.13 North Main reach 2 131688 962.00 78.00 86.33 81.34 86.45 0.000266 2.78 356.85 61.90 0.19 North Main reach 2 131688 1985.00 78,00 89.00 83.09 89,14 0.000239 3.29 1927.03 2840.7B 0.19 131668 North Mair reach 2 3435.00 78.00 84.81 90.16 90.09 0.000191 3.17 5777.46 7576.36 0.17 North Main reach 2 131688 8788.00 78.00 91.71 89.89 91.73 0.000114 2.70 19225.05 8692.08 0.14 North Mair 130701 reach 2 962.00 78.00 86.25 86.28 80.24 0.000095 1063,06 280.21 1.68 0.11 North Main reach 2 130701 1985.00 78.00 88.92 81.50 88.96 0.000099 1502.05 2.13 2228.54 D 12 North Main 3435.00 reach 2 130701 78.00 89.95 82.86 90.00 0.000137 4748.99 2.69 3180.18 0.15 North Mair reach 2 130701 8788.00 78.00 91.59 88.50 91.62 0.000129 17386.30 2.87 8452.56 0.15 North Main reach 2 130048 86.02 962.00 78.00 81.30 86.16 0.000328 3.01 326.89 57.19 0.21 North Main 130046 1985.00 reach 2 78.00 88.65 83.09 88.84 3.77 1652.70 3275.01 0.000327 0.22 North Mair reach 2 130046 3435.00 78.00 89.84 84.68 89.90 0.000167 6590,23 8060.06 2.92 0.16 North Main reach 2 130046 8788.00 78.00 91.54 89.69 91.55 23789.34 9342.46 0.000069 2.08 0.11 North Main reach 2 128081 962.00 78.00 85.36 81.03 85.50 0.000373 3.04 319.51 190.90 0.22 North Ma 128081 1985.00 78.00 reach 2 88.06 82.73 88.22 0.000310 3.56 1717.88 3157.66 0.21 North Main reach 2 128081 3435.00 78.00 89.55 84.47 89.60 6681.92 0.000150 2.75 6730.66 0.15 North Mair reach 2 128081 8788.00 78.00 91.43 89.09 27404.56 0.000047 1.72 9636.93 0.09

North Main

North Main

reach 2

reach 2

128032

128032

962.00

1985.00

78.00

78.00

85.34

88.04

81.04

82.72

85.48

88.20

0.000379

0.000317

3.06

3.59

317.80

1680.66

183.25

3123.65

0.22

| River  | Reach  | River Sta                       | Q Total | Min Ch El | W.S. Elev | Crit W.S.   | E.G. Elev   | E.G. Slope  | Vel Chnl | Flow Area    | Top Width   | Froude # Chi |
|--|--|---------------------------------|---------|-----------|-----------|-------------|-------------|-------------|----------|--------------|-------------|--------------|
|  |  | H # POATS W                     | (cfs)   | (ft)      | (ft)      | (11)        | (ft)        | (mm)        | (ft/s)   | (8Q fi)      | (ff)        |              |
| nth Main 🗀 n                                 | each 2   | 128032                          | 3435.00 | 78.00     | 89.54     | 84.47       | 89.59       | 0.000152    | 2.76     | 6715.33      | 6707.83     | 0.1          |
| th Main In                                   | each 2   | 128032                          | 8788.00 | 78.00     | 91.42     | 89.09       | 91.43       | 0.000046    | 1.71     | 27437.98     | 9653.25     | 0.0          |
|  |  | \$ \$4.00 p. p.                 |         |           |           |             |             | i           |          |              |             |              |
| th Main e                                    | each 2   | 126984                          | 962.00  | 76.00     | 85.03     | 79.67       | 85.14       | 0.000270    | 2.72     | 356.32       | 1363.01     | 0,1          |
| th Main n                                    | each 2   | 126984                          | 1985.00 | 76.00     | 87.90     | 81.51       | 87.96       | 0.000137    | 2.47     | 3148.42      | 4076.70     | 0.1          |
| th Main n                                    | each 2   | 126984                          | 3435.00 | 76.00     | 89.44     | 83.42       | 89.47       | 0.000077    | 2.06     | 8314.78      | 6523.50     | 0.1          |
| -  | each 2   | 126984                          | 8788.00 | 76.00     | 91.39     | 88.13       | 91.40       | 0.000028    | 1.38     | 31429.64     | 9053.18     | 0.0          |
|  |  | 9 BH 92819 17                   |         |           |           |             |             |             |          |              |             |              |
| 121197111111111111111111111111111111111      | each 2   | 126599                          | 962.00  | 76.00     | 84.92     | 79.66       | 85.04       | 0.000278    | 2.72     | 355.87       | 60.10       | 0.1          |
|  | 31 July 10 July 10 10 10 10 10 10 10 10 10 10 10 10 10 | 126599                          | 1985.00 | 76.00     | 87.65     | 81.48       | 87.87       | 0.000338    | 3.80     | 786.54       | 984.58      | 0.3          |
|  | each 2   | 126599                          | 3435.00 | 76.00     | 89.33     | 83.39       | 89.42       | 0.000183    | 3 14     | 5455.91      | 6402.58     | 0.1          |
|  | each 2   | The second second second second |         | 76.00     | 91.37     | 89.23       | 91.38       |             | 1 95     | 24637.84     | 8887.68     | 0.           |
| th Main T                                    | each 2   | 126599                          | 8788.00 | 70.00     | 91.57     | 49.23       | 31,00       | 0,00000     |          |              |             |              |
|  | ¥4,12,84   |                                 |         |           |           | 70.00       | 04.70       | 0.000336    | 2.90     | 332.71       | 57.27       | 0.3          |
|  | each 2   | 125588                          | 962.00  | 76.00     |           | 79.66       | 84.72       | -           | 3.94     | 880.71       | 956.27      | 0.           |
| th Main 💮 r                                  | each 2   | 125566                          | 1985.00 | 76.00     |           | 81.48       | 87.49       |             |          | 4472.37      | 4067.18     | 0.           |
| nth Main 📑                                   | reach 2  | 125566                          | 3435.00 | 76.00     |           | 83,38       | 89.21       | 0.000213    | 3.34     |              |             |              |
| rth Main 💢 r                                 | each 2   | 125566                          | 8788.00 | 76.00     | 91.28     | 88.92       | 91.30       | 0.000101    | 2.60     | 19849.31     | 9254.14     | 0.           |
|  |  | ce to an english                |         |           |           |             |             |             |          |              | -           | <del></del>  |
| rth Main                                     | reach 2  | 124578                          | 962.00  | 76.00     | 84.30     | 79.24       | 84.42       | 0.000267    | 2.80     | 352.93       | 60.05       | 0.           |
|  | reach 2  | 124578                          | 1985,00 | 76.00     | 86.84     | 81.00       | 87.11       | 0,000384    | 4.15     | 519.00       | 70.60       | 0.           |
|  | neach 2  | 124578                          | 3435.00 | 76.00     |           | 82.77       | 88.92       | 0.000364    | 4.56     | 2420.12      | 2013.12     | 0.           |
|  | each 2   | 124578                          | 8788.00 | 76.00     |           | 89.11       | 91.12       | 0.000368    | 5.18     | 8974.19      | 5475.50     | 0.           |
|  | oft of Anti-Seal                                       | 43 - 10 30 47 15                |         |           | 1         |             |             |             |          |              |             |              |
| rth Main                                     | each 2   | 124360                          | 962.00  | 76.00     | 84.20     | 79.51       | 84.35       | 0.000348    | 3.12     | 317.37       | 55.93       | 0            |
| -  |  | 124380                          | 1985.00 | 76.00     |           | 81.36       | 87.02       | <del></del> | 4.26     | 801.33       |             | 0            |
|  | reach 2  |                                 |         | 76.00     |           | 83.15       | 88.83       |             | 4.88     | 1956.19      |             |              |
|  | reach 2  | 124360                          | 3435.00 |           |           | 88.79       | 91.03       | -           | 3.89     | 12958.70     | -           |              |
| rth Main                                     | reach 2  | 124360                          | 8788.00 | 76.00     | 90.96     | 00.79       | 51.00       | 0,000210    | 3.03     |              | 3,          | 1            |
| <u>parterir se</u>                           |  | 3000000                         |         |           |           |             |             | 0.000347    | 3,11     | 317.08       | 55.23       | 0            |
|  | reach 2  | 124036                          | 962.00  | 76.00     |           |             | 84.23       |             | 4.34     | 740.10       |             |              |
| rth Main I                                   | reach 2  | 124038                          | 1985.00 | 76.00     |           | <del></del> | 86.87       |             |          |              |             | 0            |
| orth Main                                    | reach 2  | 124036                          | 3435.00 | 76.00     |           |             |             | -           |          | 1807.45      |             |              |
| rth Main                                     | reach 2  | 124036                          | 8788.00 | 76.00     | 90.88     | 88.75       | 90.98       | 0.000230    | 4.06     | 12401,76     | 5635.23     | 0            |
| 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18 | Biskin ki  | · 医肾管炎 (1) · 电电                 |         |           |           |             | L           |             | ļ        |              | <b>-</b>    | ļ            |
| rth Main                                     | reach 2  | 122198                          | 962.00  | 76.00     | 83.41     | 79.14       | 83.50       | 0.000395    | 3.13     | 311,31       |             |              |
| orth Main                                    | reach 2  | 122198                          | 1985.00 | 76.00     | 86.00     | 80.87       | 86.10       | 0.000324    | 3.60     | 1385,67      | +           |              |
|  | reach 2  | 122198                          | 3435.00 | 76.00     | 88.02     | 82.63       | 88.10       | 0.000191    | 3.18     | 4322,91      |             | <del></del>  |
|  | reach 2  | 122198                          | 8768,00 | 76.00     | 90.51     | 87.29       | 90.5        | 0.000190    | 3.66     | 10975.24     | 5352.72     | 2 0          |
| THE COLUMN                                   | F 8 7.0 TO F 1 5 3                                     | 1 10 19 11 1                    |         |           |           |             |             |             |          |              |             | l            |
| att Majo                                     | ranch 2  | 120752                          | 962.00  | 76.00     | 82.48     | 79.42       | 82.7        | 0.000888    | 4.09     | 235.95       | 50.57       | 0            |
|  | reach 2  |                                 | 1985.00 | 76.00     |           | <del></del> |             |             | 5.58     | 371.26       | 61.15       | 5 0          |
|  | reach 2  | 120752                          |         | 76.00     |           |             |             |             |          | 2491.68      |             |              |
|  | reach 2  | 120752                          | 3435.00 |           |           |             | <del></del> |             |          | 8316.27      |             |              |
| orth Main                                    | reach 2  | 120752                          | 8788.00 | 76.00     | 90,14     | 01.54       | 30,2        | 0.000207    | 1.02     | 55.15        |             | 1            |
|  |  |                                 | 1       |           | -         | 70.00       | 82.4        | 8 0.000889  | 4,01     | 240.21       | 52,10       | 0            |
|  | reach 2  | 120467                          | 962.00  |           | +         |             |             |             |          | 378.7        |             |              |
| orth Main                                    | reach 2  | 120467                          | 1985.00 | 76.00     |           |             |             |             |          | 1246.5       |             |              |
| orth Main                                    | reach 2  | 120487                          | 3435.00 | 76.00     |           |             |             |             | +        |              |             |              |
| orth Main                                    | reach 2  | 120467                          | 8788.00 | 76.00     | 90.07     | 88.05       | 90.1        | 6 0.000255  | 4.13     | 10009.17     | 7 4259.59   |              |
| 27/17/17/2                                   | 14 1027 est 1  | J. Dirt. A                      |         |           |           | <u> </u>    |             |             |          |              | <del></del> | ļ <u>.</u>   |
| orth Main                                    | reach 2  | 119740                          | 962.00  | 76.0      | 80.02     | 79.23       | 80.8        | 0.004596    |          | 135.7        |             |              |
|  | reach 2  | 119740                          | 1985.00 | 76.0      | 0 82.9    | 80.98       | 83.7        |             |          | 276,4        |             |              |
|  | reach 2  | 119740                          | 3435.00 | 76.0      | 0 84.42   | 2 82.74     | 85.8        |             |          | 364.6        |             |              |
|  | reach 2  | 119740                          | 8788.00 |           |           | 4 87.5      | 89.9        | 2 0.000249  | 4.03     | 8303.5       | 2 6802.4    | 7 (          |
| Section Section                              | 77.2.4   |                                 | 1       | 1         | 1         |             |             |             |          |              |             |              |
| orth Mala                                    | reach 2  | 110730                          | 962.00  | 72.0      | 0 80.3    | 5 75.1      | 80.4        | 4 0.000190  | 2.35     | 424.0        | 8 75.8      |              |
|  | neach 2  | 119730                          | 1985.00 |           |           |             |             |             |          |              |             | 4 (          |
|  | reach 2  | 119730                          | 3435.00 |           |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 119730                          |         |           |           |             | <del></del> |             |          |              |             |              |
| orth Main                                    | reach 2  | 119730                          | 8788.00 | 72.0      | 89.4      | 02.3        | 93.0        | 5.50057     | 0.30     |              | 1           |              |
|  | a property of the                                      | 771 July 19 19 19 19            | 4       |           |           | 75.1        |             | 9 0.00020   | 6 2.40   | 412,8        | 2 75.0      | 6            |
| orth Main                                    | reach 2  |                                 | 962.00  |           |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118784                          | 1985.00 |           |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118784                          | 3435.00 |           |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118784                          | 8788.00 | 72.0      | 0 89.5    | 0 84.2      | 3 89.5      | 55 0.00010  | 3.09     | 10186.0      | 3 5023.5    | 8            |
| Arra Crail                                   | Mayor Fren   | in the latest                   | N.      |           |           |             | +           |             |          | <del> </del> |             |              |
| orth Main                                    | reach 2  | 118761                          | 962.00  | 70.0      |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118761                          | 1985.00 | 70.0      | 83.0      |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118761                          | 3435.00 |           | 00 84.8   | 2 77.4      | 8 84.9      |             |          |              |             |              |
| orth Main                                    | reach 2  | 118761                          | 8788.00 |           |           | 8 83.9      | 9 89.       | 55 0.00011  | 5 3.34   | 10701.0      | 2516.5      | 14           |
| erar menti                                   |  | 1,,5,5,                         | 1       |           | T         |             | T           |             |          | L            |             |              |
| noth lenin                                   | mach 2   | 118735                          | Culver  | 1         | T         | 1           |             |             |          | T            |             |              |
| orth Main                                    | reach 2  | 110/30                          | Cuive   | +         |           |             | +           |             |          |              |             |              |
|  | -  | 44000                           |         | 70.0      | 70.0      |             | 79.3        | 31 0.00025  | 1 2.60   | 373.8        | 85 63.9     | 26           |
| orth Main                                    | reach 2  | 118709                          | 962.0   |           |           |             | 82.         |             |          |              |             |              |
| orth Main                                    | reach 2  | 118709                          | 1985.0  |           |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118709                          | 3435.0  |           |           |             | 84.9        |             |          |              |             |              |
| lorth Main                                   | reach 2  | 118709                          | 8788.0  | 0 70.0    | 00 89.4   | 17          | 89.         | 53 0.00011  | 3.3      | 10662.       | 2513.2      |              |
| 9 1  |  |                                 |         |           |           |             |             |             |          |              |             |              |
| orth Main                                    | reach 2  | 118635                          | 962.0   | 0 72.0    | 79.1      | 17          | 79.         |             |          |              |             |              |
| orth Main                                    | reach 2  | 118635                          | 1985.0  |           | 00 82.    | 14          | 82.         | 35 0.00033  |          |              |             |              |
| orth Main                                    | reach 2  | 118635                          | 3435.0  |           |           |             | 84.         | 94 0.00024  | 3.7      | 9 2274.      | 60 885.     | 01           |
| wall mail!                                   | 10EUI Z  | 118635                          | 8788.0  |           |           |             | 89.         |             | 3.2      | 2 10886.     | 87 2528.    | 01           |

HEC. PAS Plan. P. 50% D. (Continued) Min Ch Ef W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chl Q Total Reach River Sta (cfs) (ft) · (ff) (fi) (ft) (fVft) (fl/s) (\$Q ft) (ft) 0.000304 2.73 354.88 64.78 0.20 118513 962.00 72.00 79.14 79.25 North Main mach 2 374.33 118513 82.31 0.000315 3.65 658.36 0.22 1985.00 72.00 82.11 North Main reach 2 84.73 84.90 0.000241 3.79 2242.88 858.53 0.20 118513 3435.00 72.00 North Main reach 2 10748.40 118513 89.50 0.000113 3.27 2508.69 0.14 72.00 89.44 North Main reach 2 8788.00 70.00 73.75 117690 78.88 79.05 0.000338 3.31 352.06 57.01 0.21 1120.00 North Main mach 2 81,67 75.82 82.05 0.000494 4.95 529.86 70.24 0.27 2355.00 70.00 North Main reach 2 117690 70.00 77.91 84.57 0.000793 7.13 698.29 88.23 0.36 117890 4175.00 83,82 North Main reach 2 117690 10250.00 70.00 89.13 83.24 89.37 0.000324 5.79 7937.50 6047.61 0.24 North Main reach 2 73.66 117193 70.00 78.74 78.91 0.000342 3.31 345,52 53.83 0.22 1120.00 North Main reach 2 2355.00 0.000513 5.00 516.49 0.28 117193 70.00 81.46 75.71 81.84 74.56 North Main reach 2 679.56 87.41 0.37 70.00 83.45 77.76 84.24 0.000847 7.24 117193 4175.00 North Main reach 2 0.001722 12.24 1673.92 499.71 0.55 70.00 86.93 83.27 88.93 117193 10250.00 North Main reach 2 78.52 74.20 78 69 0.000398 3 35 350 00 65 35 0.23 116403 1120.00 70.00 North Main mach 2 76.04 81.52 0.000544 4 91 550.42 93.52 0.29 North Main 116403 2355.00 70.00 81.16 reach 2 North Main reach 2 116403 4175.00 70,00 82.98 77.98 83 71 D DODBAS 7.06 748 10 124 OR 0.38 116403 10250.00 70.00 85.99 82.86 87.83 0.001832 11.94 1827.11 587.67 0.56 North Main rach 2 401.39 71.47 116161 1120.00 70.00 78 47 73 29 78.60 0.000274 2.92 0.19 North Main reach 2 116161 2355.00 70.00 81,10 75.16 81.39 0.000403 4.38 627.01 106.39 0.25 North Main reach 2 116161 4175.00 70.00 82.89 77 13 83 48 0.000681 6.37 850.23 144.87 0.33 North Main reach 2 595.77 116161 10250.00 70.00 85.79 82.12 87.36 0.001506 11.00 1913.22 0.51 Vorth Main each 2 414.19 105.99 3.42 0.23 78.15 74.01 78.32 0.000389 North Main reach 2 115322 1120 00 70.00 647.58 0.24 4.26 1302.69 North Main mach 2 115322 2355 00 70.00 80.81 75.78 81.03 0.000388 2844.12 4.58 941.58 North Main reach 2 115322 4175.00 70.00 82.78 77.95 82.97 0.000348 0.24 5.97 0.27 86.35 0.000420 8200.57 3254.97 North Main mach 2 115322 10250 00 70.00 86.12 **B2.27** 78.15 73.19 78.28 0.000257 2.95 482.12 108.60 0.19 115218 70.00 North Main reach 2 1120,00 74.98 80.99 0.000301 3.91 1290.27 592.82 0.22 70.00 115218 2355.00 80.80 North Main resch 2 2740.58 82.73 77.05 82.93 0.000315 4.50 925.18 0.23 70.00 115218 North Main mach 2 4175.00 82.15 86.30 0.000406 6.01 7887.02 3140.25 0.27 70.00 86.05 North Main each 2 115218 10250.00 3,06 418.77 356.19 0.20 78.10 73.09 78.24 0.000277 115057 1120,00 70.00 North Main mach 2 2.73 2924.14 1306.25 0.15 70.00 80.85 74.83 80,92 0.000145 North Main reach 2 115057 2355,00 70.00 82.81 76.61 82.86 0.000117 2.76 5420.04 2312.42 0.14 115057 4175.00 North Main reach 2 18449.36 80.91 86.21 0.000084 2.76 5055.13 0.12 70.00 115057 10250.00 86.18 North Main reach 2 114848 70.DD 78.08 72.89 78.18 0.000243 2.72 441 19 445.15 0.18 1120,00 North Main reach 2 74.60 80.89 0.000095 2.13 4173.06 2589 37 0.12 114848 70.00 80.85 2355.00 North Main reach 2 82.83 0.000062 1.94 8869 21 4193 40 0.10 4175.00 70.00 82.81 76.48 North Main resch 2 114848 114848 10250.00 70.00 86.18 80.65 88.19 0.000049 2.04 21768.11 8958.52 0.09 North Main reach 2 70.92 2.57 0.17 114615 1120.00 70.00 78.03 72.77 7B 13 0.000217 442.95 reach 2 North Main each 2 114815 2355.00 70.00 80.60 74 43 80.86 0.000122 2.41 3678.31 2681.93 0.14 North Main 70.00 82.79 76.24 82 81 0.000061 194 8926.37 4195.17 0.10 North Main reach 2 114615 4175.00 8714.05 0.09 70.00 56.17 80.98 86.19 0.000046 1.98 22372.04 North Main 114615 10250.00 reach 2 114800 Bridge North Main each 2 2.58 70.60 0.17 78.11 441.25 0.000219 North Main reach 2 114585 1120.00 70.00 78.01 72.77 3610.78 2655.59 0.14 0.000126 2,45 North Main reach 2 114585 2355.00 70.00 80.76 74.43 80.82 1.94 8915.66 4180.20 0.10 82.79 reach 2 114585 4175.00 70.00 82.77 76.24 0.000062 0.000048 22364.0 8675.10 0.09 reach 2 86.17 North Main 114585 10250.00 70.00 86,15 80.98 440.10 70.47 0.17 77.99 78.10 0.000221 2.58 1120.00 72.77 North Main reach 2 114500 70.00 80.81 0.000128 2.46 3620.33 2646.67 0.14 80.75 74.43 North Mair 70.00 mach 2 114500 2355.00 9099.36 4223.50 0.10 82.77 76.24 82.79 0.000061 1.93 4175.00 70.00 North Main reach 2 114500 22744.03 8653.40 0.09 0.000044 1.94 86.14 80.95 70.00 North Mair mach 2 114500 10250.00 72.96 77.83 0.000318 2.98 380.21 63.22 0.21 70.00 77.69 North Main reach 2 113500 1120.00 0.000400 80.58 4,19 1226.25 2274.23 0.24 2355.00 70.00 80.33 74.73 113500 North Main reach 2 76.61 82.72 0.000084 2.23 8513 45 4128 55 0.12 113500 4175.00 70.00 82.69 North Main reach 2 10250.00 70.00 86.11 81.62 86.12 0.000042 1.88 23322.41 9405.80 0.09 113500 North Main reach 2 0.15 90.87 98.19 93.28 98 24 0.000261 1 92 213.14 41.35 315798 410.00 North Main reach 3 (south) 47.55 0.14 90.87 100.03 93.83 100.09 0.000210 1.94 295.09 573.00 315796 North Main reach 3 (south) 0.14 101.62 94 40 101.68 0.000198 2.05 374.81 52.89 770.00 90.87 315796 North Main reach 3 (south) 0.14 299.87 90.87 104.32 95.86 104.40 0.000201 2.33 833.94 1392.00 North Main 315798 reach 3 (south) 0.13 49.43 410.00 90.87 98.11 93.06 98.15 0.000188 1.64 249.95 315434 North Main reach 3 (south) 349.58 57.14 0.12 1.64 315434 573.00 90.87 99 98 93 55 100.02 0.000146 reach 3 (south) North Main 445.82 63.71 0,12 1.73 North Main 770.00 90 87 101.57 94.08 101.62 0.000137 315434 reach 3 (south) 1324.78 0.04 1392.00 90.87 104.36 95.42 104.36 0.000020 0.74 4440.17 315434 North Main reach 3 (south) 45.45 0.19 98.10 0.000414 2.44 233.66 93.48 315287 569.00 90.32 98.01 North Main reach 3 (south)

| River              | Plan P 50% D<br>Reach  | River Sta          | Q Total | Min Ch El   | W.S. Elev   | Crit W.S.   | E.G. Elev                             | E.G. Slope     | Vel Chril   | Flow Area   | Top Width   | Froude # Chi |
|--------------------|--|--------------------|---------|-------------|-------------|-------------|---------------------------------------|----------------|-------------|-------------|-------------|--------------|
|                    |  |                    | (cfs)   | (fi)        | (ft)        | (ft)        | (ft)                                  | (ft/ft)        | (ft/s)      | (sq ff)     | (ft)        |              |
| rth Main           | reach 3 (south)  | 315287             | 889.00  | 90.32       | 99.86       | 94.34       | 99.97                                 | 0.000413       | 2.74        | 323.89      | 52.27       | 0.1          |
| th Main            | reach 3 (south)  | 315287             | 1298.00 | 90.32       | 101.41      | 95.26       | 101.57                                | 0.000467       | 3.17        | 409.54      | 58.09       | 0.3          |
| th Main            | reach 3 (south)  | 315287             | 2652.00 | 90.32       | 103.98      | 97.50       | 104.32                                | 0.000802       | 4.63        | 572.89      | 69.01       | 0.3          |
| \$174,694.70       |  |                    |         |             |             |             |                                       |                |             |             |             |              |
| th Main            | reach 3 (south)  | 314000             | 569.00  | 89.95       | 97.40       | 93.03       | 97.51                                 | 0.000507       | 2.67        | 213.51      | 41.89       | 0.3          |
| th Main            | reach 3 (south)  | 314000             | 889.00  | 89.95       | 99.25       | 93.94       | 99.39                                 | 0.000506       | 3.00        | 296.66      | 48.39       | 0.3          |
| th Main            | reach 3 (south)  | 314000             | 1298.00 | 89.95       | 100.70      | 94.90       | 100.89                                | 0.000590       | 3.50        | 370.79      | 53.52       | 0.           |
| th Main            | reach 3 (south)  | 314000             | 2652.00 | 89.95       | 102.55      | 97.28       | 103.03                                | 0.001259       | 5,58        | 475.57      | 60.03       | 0.           |
| rilgi kiantikor in |  | 3,120,45163        |         |             |             |             |                                       |                |             |             |             |              |
| rth Main           | reach 3 (south)  | 313882             | 569.00  | 89.95       | 97.33       | 93.03       | 97.44                                 | 0.000528       | 2.71        | 210.31      | 41.62       | 0.           |
| rth Main           | reach 3 (south)  | 313862             | 889.00  | 89.95       | 99.17       | 93.94       | 99.31                                 | 0.000523       | 3.03        | 292.98      | 48.12       | 0.           |
| th Main            | reach 3 (south)  | 313862             | 1298.00 | 89.95       | 100.61      | 94.89       | 100.81                                | 0.000611       | 3.55        | 366.06      | 53.21       | 0.           |
| th Main            | reach 3 (south)  | 313862             | 2652,00 | 89.95       | 102.34      | 97.28       | 102.85                                | 0.001350       | 5.72        | 463.40      | 59.31       | 0.           |
|                    |  |                    | 2002.00 | 00.00       | 102.01      |             |                                       | 0.001.000      | 52          |             |             | <del>_</del> |
| rth Main           | reach 3 (south)  | 312000             | 569.00  | 89.03       | 96.49       | 91.86       | 96.58                                 | 0.000400       | 2.43        | 234.30      | 44.40       | 0.           |
| rth Main           | reach 3 (south)  | 312000             | 889.00  | 89.03       | 98.33       | 92.72       | 98.45                                 | 0.000410       | 2.76        | 321.65      | 50.74       | 0.           |
| th Main            | reach 3 (south)  | 312000             | 1298.00 | 89.03       | 100.17      | 93.63       | 100.21                                | 0.000175       | 1.98        | 1974.41     | 1928.17     | 0.           |
| th Main            | reach 3 (south)  | 312000             | 2652.00 | 89.03       | 102.52      | 95.91       | 102.52                                | 0.000031       | 0.93        | 8452.60     | 3258.17     | 0            |
| ui mani            | Industrial (Society  | 512000             | 2002,00 | 05.03       | 102.32      | 33.81       | 102.52                                | 0,000001       | 0.00        | 0.02.00     | 0200.11     |              |
| de Alleia          |  | 244406             | 569.00  | 88.28       | 96.30       | 90.77       | 96.35                                 | 0.000194       | 1.79        | 318.63      | 57.19       | 0.           |
| th Mein<br>th Main | reach 3 (south)  | 311185<br>311185   | 889.00  | 88.28       | 98.13       | 91.55       | 98.20                                 | 0.000194       | 2.06        | 430.78      | 65.18       | 0.           |
| th Main            | reach 3 (south)  | 311185             | 1298.00 | 88.28       | 99.96       | 92.37       | 100.04                                | 0.000208       | 2.33        | 557.05      | 73.12       | 0            |
| th Main            | A CONTRACTOR OF THE CONTRACTOR | 311185             | 2652.00 | 88.28       | 102.49      | 94.45       | 102.50                                | 0.000220       | 1.14        | 7392.17     | 3587.45     | 0            |
| us million         | reach 3 (south)  | 1011100            | 2002.00 | 00.∠8       | 102.49      | 54.43       | 102.30                                | 0.000043       | 1.14        | 1002.11     | 5501.45     |              |
| ab Maj-            |  | 311119             | 569.00  | 88.28       | 96.29       | 90.77       | 96.34                                 | 0.000195       | 1.79        | 317.87      | 57.14       | 0            |
| rth Main           | reach 3 (south)  |                    |         | 88.28       | 98.12       | 91.55       | 98.19                                 | 0.000199       | 2.07        | 429.84      | 65.12       | 0            |
| rth Main           | reach 3 (south)  | 311119             | 889.00  |             |             |             |                                       | 0.000209       | 2.07        | 555.95      | 73.06       | 0            |
| rth Main           | reach 3 (south)  | 311119             | 1298.00 | 88.28       | 99.95       | 92.37       | 100.03<br>102.50                      | 0.000221       | 1.14        |             |             | 0            |
| rth Main           | reach 3 (south)  | 311119             | 2652.00 | 88.28       | 102.49      | 94,45       | 102.50                                | 0.000043       | 1.14        | /301.00     | 3001.31     | <u> </u>     |
| AL 18.7            | and the state of t | 310000             | 569.00  | 88.03       | 96.04       | 90.56       | 96,10                                 | 0.000235       | 1.99        | 285.74      | 48,91       | 0            |
| rth Main           | reach 3 (south)  |                    |         |             |             |             |                                       | <del></del>    | 2.34        | 379.22      | 54.87       | 0            |
| rth Main           | reach 3 (south)  | 310000             | 889.00  | 88.03       | 97.84       | 91.36       | 97.92                                 |                |             |             |             |              |
| rth Main           | reach 3 (south)  | 310000             | 1298.00 | 88.03       | 99.63       | 92.23       | 99.75                                 |                | 2.69        | 482.97      | 60.69       | 0            |
| rth Main           | reach 3 (south)  | 310000             | 2652.00 | 88.03       | 102.43      | 94.45       | 102.44                                | 0.000065       | 1.33        | 6497.51     | 3211.86     | 0            |
| April (18 )        |  | 130022             |         |             |             |             |                                       |                | A n=        | 275.00      |             |              |
| rth Main           | reach 3 (south)  | 308000             | 569.00  | 87,73       | 95.54       | 90.26       | 95.60                                 | +              | 2.07        | 275.22      | 48.06       | 0            |
| rth Main           | reach 3 (south)  | 308000             | 589.00  | 87.73       | 97.27       | 91.07       | 97.37                                 | 0.000294       | 2.44        | <del></del> |             | 0            |
| irth Main          | reach 3 (south)  | 308000             | 1298.00 | 87.73       | 99.01       | 91.93       | 99,13                                 |                | 2.81        | 461.85      | <del></del> | 0            |
| orth Main          | reach 3 (south)  | 308000             | 2652.00 | 87.73       | 102.26      | 94.15       | 102.28                                | 0.000087       | 1.66        | 5631.20     | 3536.34     | 0            |
| 4 1-14             |  |                    |         |             |             |             |                                       | ļ <u> </u>     |             | <u> </u>    | ļ           |              |
| orth Main          | reach 3 (south)  | 307236             | 569.00  |             | 95.26       | 90.64       | 95.35                                 | <del></del>    | 2.45        | +           | 44.90       | 0            |
| orth Main          | reach 3 (south)  | 307236             | 889.00  | 87.73       | 96.96       | 91.54       | 97.09                                 |                | 2.83        | <del></del> | 51.55       | 0            |
| orth Main          | reach 3 (south)  | 307236             | 1298.00 | 87.73       | 98.67       | 92.47       | 98.83                                 |                | 3.18        |             | ·           |              |
| orth Main          | reach 3 (south)  | 307236             | 2652.00 | 87.73       | 102.10      | 94.76       | 102.15                                | 0.000419       | 2.37        | 2671.78     | 2607.12     | 0            |
| 4.400,11,143       |  |                    |         |             |             |             |                                       |                |             | <u> </u>    |             |              |
| orth Main          | reach 3 (south)  | 307138             | 569.00  | 87.73       | 95,21       | 90.64       | 95.31                                 | · <del>·</del> | 2.48        |             | <del></del> | 0            |
| orth Main          | reach 3 (south)  | 307136             | 889.00  | <del></del> | 96.92       | 91,54       | 97.04                                 | <del></del>    | 2.85        |             |             |              |
| orth Main          | reach 3 (south)  | 307136             | 1298.00 | 87.73       | 98.62       | 92.47       | 98.78                                 |                | 3.21        | 404.74      |             |              |
| orth Main          | reach 3 (south)  | 307136             | 2652.00 | 87.73       | 102.05      | 94.76       | 102.11                                | 0.000451       | 2.46        | 2547.95     | 2499.39     | 0            |
| <u> </u>           |  | - la fill of subje |         |             |             |             |                                       | 1              |             |             |             |              |
| orth Main          | reach 3 (south)  | 306000             | 569.00  | 86.38       | 94.67       | 90.06       | 94.78                                 | 0.000502       | 2.65        | 214.49      |             | <del> </del> |
| orth Mein          | reach 3 (south)  | 306000             | 889.00  | 86.38       | 96,33       | 91.07       | 96.4                                  | 7 0.000548     | 3.07        | 289.23      |             | <del></del>  |
| orth Main          | reach 3 (south)  | 306000             | 1298.00 |             | +           | ·           | 98.18                                 |                | 3.46        |             |             | +            |
| orth Main          | reach 3 (south)  | 306000             | 2652.00 | 86,38       | 101.03      | 94.52       | 101.38                                | 0.000835       | 4.74        | 559.56      | 66.51       | 1 0          |
|                    | National Company   | urri vista         |         |             |             |             |                                       |                |             |             |             | ļ            |
| orth Main          | reach 3 (south)  | 304000             | 569.00  |             |             | <del></del> | +                                     |                |             |             |             |              |
| orth Main          | reach 3 (south)  | 304000             | 889.00  | 86.39       | 95.31       |             | <del></del>                           |                |             | <del></del> |             |              |
| orth Main          | reach 3 (south)  | 304000             | 1298.00 | 86.39       | 96.89       | 91.02       | 97.0                                  |                | 3.36        |             |             |              |
| orth Main          | reach 3 (south)  | 304000             | 2652.00 | 86.39       | 99.17       | 93.30       | 99.5                                  | 7 0,000986     | 5.08        | 521.6       | 63.26       | <u> </u>     |
| 1. 196             |  |                    |         |             | <u> </u>    |             | <u> </u>                              |                |             |             |             | 1            |
| orth Main          | reach 3 (south)  | 302338             | 569.00  | 86.39       | 93.04       | 89,14       | 93.1                                  | 2 0.000466     | 2.30        | 239.2       |             |              |
| orth Main          | reach 3 (south)  | 302338             | 889.00  | 86.39       | 94.51       | 89.94       | 94.6                                  | 3 0.000491     | 2.72        |             |             |              |
| orth Main          | reach 3 (south)  | 302338             | 1298.00 | 86,39       | 96.08       | 90.78       | 96.2                                  | 2 0.000484     | 3.00        | 432.2       | 2 71.56     | +            |
| orth Main          | reach 3 (south)  | 302338             | 2652.00 | 86.39       | 99.07       | 92.81       | 99.0                                  | 8 0,000088     | 1.03        | 3 5321.1    | 2125.54     |              |
| 735,55             |  |                    |         |             |             |             |                                       |                |             |             |             | L            |
| orth Main          | reach 3 (south)  | 302274             | 569.00  | 86.39       | 92.97       | 89.45       | 93.0                                  | 9 0.000699     | 2.7         | 1 209.7     | 1 53,34     | 4            |
| orth Mein          | reach 3 (south)  | 302274             | 889.00  | 86.39       | 94.45       | 90.3        | 94,5                                  | 9 0.000664     | 3.0         | 2 293.9     | 4 60.94     | 1            |
| orth Main          | reach 3 (south)  | 302274             | 1298.00 |             |             | <del></del> |                                       |                |             | 8 395.8     | 3 69.63     | 3            |
| rth Main           | reach 3 (south)  | 302274             | 2652.00 |             |             |             |                                       |                | 1.8         | 4 4050.1    | 9 2018.0    | 1            |
|                    |  | 1                  | 1       | 1           | 1           | 1           |                                       |                |             |             |             |              |
| orth Main          | reach 3 (south)  | 301922             | 569.00  | 86,39       | 92.82       | 88.61       | 92.9                                  | 0.00036        | 3 2.2       | 4 253.9     | 2 52.6      | 4            |
| orth Main          | reach 3 (south)  | 301922             | B89.00  | ·           |             | _           |                                       |                |             |             |             |              |
|                    |  | 301922             | 1298.00 |             | -+          |             | <del></del>                           |                | <del></del> |             |             |              |
| orth Main          | reach 3 (south)  | ~ <del>~</del>     | 2652.00 | +           |             |             |                                       |                |             |             |             |              |
| orth Main          | reach 3 (south)  | 301922             | 2002.00 | , 00.3      | , 30.9      | 52.1        | 33,0                                  | 2.00011        | <del></del> | - 0712.2    |             | +            |
|                    | manch & for the  | 201015             | Fen or  | 86.3        | 9 92.8      | 2 88.6      | 92.8                                  | 9 0.00035      | 7 2.2       | 2 256.6     | 7 52.8      | 4            |
| orth Main          | reach 3 (south)  | 301915             | 569.00  |             |             |             |                                       |                |             |             |             |              |
| orth Main          | reach 3 (south)  | 301915             | 889.00  |             |             |             | · · · · · · · · · · · · · · · · · · · |                |             |             |             |              |
| orth Main          | reach 3 (south)  | 301915             | 1298.00 |             | <del></del> |             |                                       |                |             |             |             |              |
| orth Main          | reach 3 (south)  | 301915             | 2652.00 | 3 86.3      | 98.9        | 8 92.1      | 3 99.0                                | 0.00011        | و. ا        | 4/40.0      | - 2555,U    | -1           |

HEC-RAS Plan. P 50% D (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl River Reach River Sta (cfs) (ft) (fVff) (ft/s) (sq ft) (ft) (ft) (ft). (ft) 90.77 North Main reach 3 (south) 1298.0 60.38 83.94 0.000246 0.16 North Main reach 3 (south) 288232 2652.00 80.38 92.71 85.85 92.76 0.000203 2.39 3217.41 2435.99 0.15 569.00 80.38 87.68 82.52 87.73 0.000184 1.72 61.33 North Main 331.50 0.13 reach 3 (south) 426.40 North Main 80.38 89.15 2.08 67.72 reach 3 (south) 288165 889.00 83.21 89.22 0.000223 0.15 North Main 1298.00 90.75 90.84 2.40 540.05 74.66 reach 3 (south) 288165 80.38 83.94 0.000248 0.16 85.85 2421.62 288165 80.38 92.70 2.40 3195.91 North Main reach 3 (south) 2652.00 92.75 0.000205 0.15 North Main 569.00 288000 80.38 87.63 82,62 87.69 0.000237 1.95 52.81 each 3 (south) 291.92 0.15 North Main reach 3 (south) 889.00 80.38 89.09 83.34 89.18 0.000293 2.39 372.39 57.85 0.17 North Main reach 3 (south) 288000 1298.00 80.38 90.67 84.14 2.77 468.24 63.34 90.79 0.000331 0.18 North Main 86.17 0.000149 5083.19 3049.28 reach 3 (south) 288000 2652.00 80,38 92.70 92.71 1.30 0.11 87.30 82.89 389.81 1044.00 80.37 87.19 0.000456 2.68 73.49 0.20 286897 North Main reach 3 (south): North Main 266897 1567.00 83.65 88.71 80.16 reach 3 (south) 80.37 88.56 0.000522 3.17 495.03 0.22 2228.00 80.37 90.00 84.48 90.29 0.000549 3.58 623.09 86.90 0.24 North Main reach 3 (south) 286897 3237.59 North Main reach 3 (south) 286897 4412.00 80.37 92.30 86.61 92.42 0.000458 3.43 2071.95 0.22 North Main reach 3 (south) 286000 1044.00 80.36 86.65 82.98 86.81 0.000659 3.13 333.79 65.67 0.24 North Main reach 3 (south) 286000 1567.00 80.36 87.93 83.74 0.000763 3.72 420.77 70.79 0.27 North Main 286000 2228.00 80.36 89.42 84.58 89.69 0.000797 4.20 530.32 76.49 0.28 reach 3 (south) 4412.00 80.36 91.58 0.000818 4,79 2375.36 2202.79 0.29 reach 3 (south) 288000 North Main 83.43 51.53 North Main reach 3 (south) 284529 1044.00 80.36 83.06 84,33 0.009023 7.6 137.11 0.82 1567.00 North Main reach 3 (south) 284529 80.36 85.29 83.84 85.95 0.003854 6.51 240.78 59.95 0.57 North Main 284529 2228.00 80.36 87.18 84.71 87.77 0.002406 6.14 362.73 68.72 0.47 reach 3 (south) North Main 284529 4412.00 80.36 90.51 90.58 0.000837 2.97 3269.05 2199.42 0.27 reach 3 (south) North Main reach 3 (south) 284517 Inline Wei 1044.00 74.78 83,42 77.76 83,51 0.000307 421.04 64.96 0.17 North Main reach 3 (south) 284500 2.48 1567.00 78.62 0.000331 2.86 71.88 North Main reach 3 (south) 284500 74.78 85.28 85.41 548.62 0.18 284500 0.000353 691.18 78.69 North Main reach 3 (south) 2228.00 74.78 87.17 79.55 67.33 3.22 0.19 0.000429 3622.57 2201.84 0.20 North Main reach 3 (south) 284500 4412.00 74.78 90.50 81.95 90.57 2.58 North Main reach 3 (south) 284287 1044.00 74.78 83.33 77.89 83,44 0.000369 2.68 388 89 60.65 0.19 1567.00 74.78 78.79 3.09 507.39 67.19 0.20 North Main reach 3 (south) 284287 85.18 85.33 0.000396 North Main reach 3 (south) 284287 2228.00 74.78 87.06 79.75 87.25 0.000422 3.48 639.95 73.82 0.21 North Main 284287 4412.00 74.78 90.39 82.22 90.46 0.000594 2.51 3314.31 2077.42 0.22 reach 3 (south) 1044.00 74.78 83.29 77.89 83.40 0.000376 2.70 386.48 60.51 0.19 North Main reach 3 (south) 284201 78.79 0.000403 3.11 504.58 67.04 0.20 North Main 284201 1567.00 74.78 85.14 85.29 reach 3 (south) 636.72 North Main 284201 2228.00 74.78 87.02 79.75 87.21 0.000428 3.50 73.67 0.21 reach 3 (south) 0.002038 4.68 237.58 each 3 (south) 284201 4412.00 74.78 89.99 82.2 90.33 942.80 0.41 North Main 73.32 83.23 77.22 83.33 0.000305 2.44 427.34 66.52 0.17 North Main reach 3 (south) 284000 1044.00 0.000325 North Main 284000 1567.00 73.32 85.09 78.40 85.21 2.82 556.58 73.05 D.18 reach 3 (south) reach 3 (south) 284000 2228.00 73.32 86.96 79.45 87.12 0.000346 3.18 699 89 79.59 0,19 North Main North Main 284000 4412.00 73.32 89.79 81.75 90.13 0.000602 4.70 938.35 89.41 0.26 reach 3 (south 1044.00 82.71 76,35 82.79 0.000235 2.26 462 37 66 88 0.15 North Main reach 3 (south) 282000 73.33 1567.00 73.33 84.50 77.22 84.61 0.000272 2.66 588 16 73.65 0.17 North Main reach 3 (south) 282000 2228.00 73.33 86.33 78 15 86 4R 0.000304 3.05 729.46 80 57 N 18 North Main reach 3 (south) 282000 4412.00 73.33 88.53 80.56 88 89 0.000642 4 82 915.22 88.85 0.26 North Main reach 3 (south) 282000 North Main reach 3 (south) 280327 1044.00 73 32 82 24 76 48 82.34 0.000311 2.49 419 60 65.13 0.17 North Main reach 3 (south) 280327 1567.00 73.32 83.96 77.37 84.09 0.000354 2.91 537.61 72.20 0.19 280327 2228.00 73 32 85 73 78 34 85 90 0.000392 3 32 671 86 79.95 0.20 North Main reach 3 (south 280327 4412.00 73.32 87.82 80.79 87.97 0.000416 3.62 2753.43 1266.06 0.21 North Main reach 3 (south) 65.05 North Main reach 3 (south) 280283 1044 DO 73 32 82 22 76 48 82.32 0.000314 2.50 418.26 0.17 280263 1567.00 73.32 83.94 77.37 84.07 0.000357 2.92 535.90 72.10 0.19 North Main reach 3 (south North Main reach 3 (south) 280283 2228 00 73 32 85.70 78 34 85 88 0 000395 3.33 669.75 79.78 0.20 North Mair reach 3 (south) 280263 4412.00 73.32 87.79 80.78 87.94 0.000427 3.67 2712.52 1265.06 0.21 North Main 280000 1044 00 73 32 82.14 76.38 82.24 0.000307 2.49 418.66 63.76 0.17 reach 3 (south) reach 3 (south) 280000 1567.00 73.32 83 84 77 25 83 97 0.000354 2.94 532.47 70 04 0.19 North Main 280000 2228 00 73.32 85.59 78.21 85.77 0.000395 3.37 661.03 76.52 0.20 North Main reach 3 (south) North Main 280000 4412.00 73.32 87.68 80.64 87.83 0.000410 3.73 2699,48 1203.64 0.21 reach 3 (south) 60.61 North Main reach 3 (south) 278000 1044.00 73.32 81.32 76.63 81.46 0.000504 2.96 352.18 0.22 66.82 North Main each 3 (south) 278000 1567 00 73 32 82 90 77 54 83.09 0.000563 3.46 452.96 0.23 73,87 North Main each 3 (south) 278000 2228.00 73.32 84.56 78.50 84.80 0.000610 3.91 569.41 0.25 1754.65 0.16 North Main each 3 (south) 278000 4412.00 73.32 87.10 80.94 87.16 0.000254 2.81 4149.13 North Main 276000 1044.00 74.04 80.08 76.67 80.25 0.000745 3.27 319.66 64.43 0.26 reach 3 (south) North Main 0.000765 3.74 419.03 69.84 0.27 reach 3 (south) 276000 1567.00 74.04 81 56 77.41 81.78 North Main reach 3 (south) 74.04 0.000768 535.19 75.75 0.28 276000 2228.00 83.16 78.25 83.43 4.16 North Main 5.98 0.41 86.06 737.30 110.50 reach 3 (south) 276000 4412.00 74.04 85 50 80.41 0.001695

HEC-RAS Plans P 50% D (Continued) C Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Reach River Sta Vel Chn1 Flow Area Top Width Froude # Ch! (cfs) (ff) (ft) (ft) (ft) (ft/ft) (fi/s) (sq fi) (ft) North Main 275122 1044.00 74.04 78.74 reach 3 (south) 76,94 79.13 0.002514 5.01 208.44 55.66 0.46 North Main 275122 1567.00 reach 3 (south) 74.04 80.36 77.75 80.77 0.001874 5 15 304.29 61,91 0.41 North Main reach 3 (south) 275122 2228.00 74.04 82.03 78.65 82.48 0.001563 5.40 412.25 67.42 0.39 North Main reach 3 (south) 275122 4412.00 74.04 84.01 80.88 84 48 0.001853 R 18 1565.61 1661.38 0.42 North Main 275113 Inline Weir reach 3 (south) 1044.00 North Main 275102 70.28 76.73 reach 3 (south) 73.20 78.83 0.000348 2.58 404 98 64.47 0.18 275102 North Main 1567.00 reach 3 (south) 70.28 80.35 74.06 80.49 0.000401 3.05 513.91 70.20 0.20 275102 2228.00 iorth Ma 70.28 82.02 75.00 reach 3 (south) 82.21 0.000448 3.50 636.53 76,62 0.21 North Mai reach 3 (south) 275102 4412.00 70.28 84.00 77.51 84.31 0.000810 4.75 1896.28 1663.35 0.29 274837 1044.00 70.28 78.74 North Main mach 3 (south) 72.17 78.77 0.000084 1.38 754 60 109.62 0.09 1567.00 North Main 274837 70.28 reach 3 (south) 80.37 72.74 80.42 0.000101 1.67 939.84 117 29 0 10 274837 North Main reach 3 (south) 2228.00 70.28 82.06 73.36 0.000115 82.12 1.95 1143.81 124.41 0.11 274537 4412.00 70.28 84.05 75.03 North Main each 3 (south) 0.000170 2.59 84.14 3608.02 2501.91 0.14 72.91 North Main reach 3 (south) 274000 1044.00 70.28 78.57 78.85 0.000250 2.24 465.38 72 09 0.16 North Main reach 3 (south) 274000 1567.00 70.28 80.16 73.68 80.27 0.000296 2.68 585.04 78.59 0.17 North Main reach 3 (south) 274000 2225.00 70.28 81.81 74.52 81.96 0.000337 3.09 719.95 85,34 0.19 North Main neach 3 (south) 274000 4412.00 70.28 83.78 76.72 83.92 0.000380 3.59 3559.14 3590.33 0.20 North Main reach 3 (south) 272412 1044.00 70.28 78.21 72.67 78.28 0.000220 2.08 503.02 80.48 0.15 North Main reach 3 (south) 272412 1567.00 70.28 79.73 73.39 79.B3 0.000261 2.48 630.69 87.17 0.16 North Main reach 3 (south) 272412 2228.00 70.28 81.32 74,16 81.45 0.000295 2.88 774.77 94.15 0.18 North Mair reach 3 (south) 272412 4412.00 70.28 82.75 76.21 83.11 0.000731 4.83 913.54 100,35 0.28 North Main reach 3 (south) 271000 1306.00 70 27 77 6B 73.02 77.82 0.000460 2.95 442.5E 71,55 0.21 0.000540 North Main reach 3 (south) 271000 1925 00 70.27 79.09 73.80 79.29 3.52 546.79 76.06 0.23 North Main reach 3 (south) 271000 2703.00 70.27 80.58 74.65 80.84 0.000614 4 08 663.14 80.98 0.25 reach 3 (south) North Main 271000 5237 00 70.27 82.48 76.90 82.52 0.000201 2.55 5788.17 2953.93 0.15 North Main mach 3 (south) 269920 1306 00 70 27 76 73 73 60 77.03 0.001290 4 37 299.05 58.43 0.34 North Main reach 3 (south) 269920 1925.00 70.27 77.94 74.51 78 36 0.001498 5 16 372.71 62.99 0.37 North Main reach 3 (south) 269920 2703.00 70.27 79.25 75.50 79.79 0.001652 5.90 458.00 67.82 0.40 North Main reach 3 (south) 269920 5237.00 70.27 82.04 78.02 62.14 0.000740 3.57 3567.52 2733.69 0.26 North Main reach 3 (south) 269788 1306.00 70.27 76.52 73.60 76.84 0.001453 4.55 286.91 57.64 0.36 North Main reach 3 (south) 269788 1925.00 70 27 77 69 74 51 78 14 0.001693 5.39 356.96 62.04 0.40 North Main reach 3 (south) 269788 2703.00 70.27 78.96 75.50 79.55 0.001863 6.18 438.78 66.77 0.42 North Main reach 3 (south) 269788 5237.00 70.27 81.92 78.02 62.03 0.000892 3.69 3288.72 2252.07 0.29 269131 1308.00 73.68 73.37 74.78 North Main reach 3 (south) 70.27 0.009695 8.42 155.13 52 65 0.86 North Main 269131 1925.00 74.97 76.09 0.006856 reach 3 (south) 70.27 74.22 8.51 226.23 57.83 0.76 70.27 76.63 75,13 2703.00 77.68 North Main reach 3 (south) 269131 0.004581 8.25 327.64 64 30 D BA 269131 78.81 0.005855 North Main reach 3 (south) 5237.00 70.27 77.51 80.68 10.98 476.85 72.58 0.76 269121 North Main reach 3 (south) Inline Weir North Main 269108 1308.00 65.34 73.39 68.57 73.57 0.000596 reach 3 (south) 3.38 386,45 60.53 0.24 269108 North Main reach 3 (south) 1925.00 65.34 74.96 69.48 75.20 0.000684 3.96 485.78 66.13 0.26 North Main 269108 2703.00 65.34 76.62 70.48 76.93 reach 3 (south) 0.000755 4.50 600.65 72.53 0.28 5237.00 65.34 78.80 73.11 79.52 0.001468 North Main ech 3 (south) 269108 6.81 769.13 82.03 0.39 68.42 70.76 North Main 268000 1306.00 65.34 72.74 72.90 0.000600 3.23 404.71 reach 3 (south) 0.24 1925.00 65.34 74.23 69.26 74.45 North Main reach 3 (south) 268000 0.000658 3.73 515,42 77.23 0.25 2703.00 75.85 70.19 76.12 reach 3 (south) 268000 65.34 0.000694 4.19 645.50 84.35 0.27 72.53 North Main reach 3 (south) 268000 5237.00 65.34 76.91 0.001856 7.09 738,38 90.28 0.44 266698 North Main reach 3 (south) 1306.00 65 32 71 74 68 31 71 95 0.000905 3.67 355.61 70.23 0.29 North Main reach 3 (south) 268698 1925.00 65 32 73 16 69.13 73 43 0.000944 4 19 459.84 76.70 0.30 North Main reach 3 (south) 266698 2703.00 65.32 74.75 70.01 75.08 0.000933 4.60 587,43 83.93 0.31 North Mair reach 3 (south) 288898 5237.00 65.32 75.87 72.28 76.05 0.000750 4 39 3969.08 3379,30 0.28 North Main reach 3 (south) RRRRR Inline Weir North Main reach 3 (south) 266679 1306.00 61.46 71.73 64.54 71.80 0.000168 2.06 633,19 82 58 0.13 North Main reach 3 (south) 266679 1925 00 61 46 73 15 65.38 73 26 0.000224 2.55 754.34 88.12 0.15 North Main reach 3 (south) 266679 2703.00 61.46 74.74 66.24 74.88 0.000271 3.01 898 93 94 49 0.17 North Main reach 3 (south) 266679 5237.00 61.46 75.86 68.53 76.01 0.000362 3.62 4334.96 3390.99 0.20 1306.00 71.66 62.86 71.70 0.000101 North Main reach 3 (south) 266000 59.80 1.73 756.64 87.45 0.10 1925.00 73.05 63.72 73.12 0.000144 North Main reach 3 (south) 266000 59.80 2.18 881.81 92.83 0.12 59.80 74.72 0.000178 North Main reach 3 (south) 268000 2703.00 74.52 64.63 2.59 1321.63 2117.71 0.14 75.68 75.79 0.000277 North Main reach 3 (south) 266000 5237.00 59.80 66.95 3.34 4505.49 3329.06 0.18 1306.00 265565 59.80 71.58 63.58 71.65 2.05 0.000165 638,51 83,16 North Main reach 3 (south) 0.13

64.54

73.04

0.000227

2.55

756,07

90.02

0.15

1925.00

265565

reach 3 (south)

North Main

59.80

72.94

HEC-RAS Plan. P 50% D (Continued) Q Total Reach River Sta Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chl (cfs) (ff) **(ft)** (ft/ft) (fl/s) (sq ft) (ft) North Main 285565 reach 3 (south) 2703.00 59.80 74.55 65.56 74 63 0.000194 2.50 0.15 North Main 285565 reach 3 (south) 5237.00 59.80 75.60 68.12 75.66 0.000215 6313,26 3900.65 0.15 North Main 265509 1306.00 reach 3 (south) 59.80 71.57 63.58 71.64 0.000165 2.05 637.72 83.12 0.13 North Main reach 3 (south) 265509 1925.00 59.80 72.93 64.54 73.03 0.000228 2.55 754.88 89.95 0.16 North Main reach 3 (south) 265509 2703.00 59.80 74.54 65.57 74.62 0.000196 2.52 2411.61 2501.19 0.15 North Main reach 3 (south) 265509 5237.00 59.80 75.59 68.13 75.66 0.000217 6285.53 2.75 3900.41 0.15 North Maid 264000 1306.00 reach 3 (south) 59 75 71 35 63.05 71.4 0.000134 1,94 672.47 79.85 0.12 North Main reach 3 (south) 264000 1925.00 59.75 72.61 63.91 72.71 0.000196 2.48 775.92 84.53 0.14 North Main 264000 reach 3 (south) 2703 00 59 75 74.38 64.86 74.41 0.000093 1.80 4776.49 3350.77 0.10 North Main reach 3 (south) 264000 5237.00 59.75 75.37 67.30 75.39 0.000135 1.83 8421.46 3870.84 0.12 North Main reach 3 (south) 262000 1306.00 59.40 71.07 62.70 71.13 2.00 652.77 77.68 0,12 North Main reach 3 (south) 262000 1925.00 59.40 72.19 63.63 72.29 0.000220 2.60 741.76 81.88 0.15 North Main reach 3 (south) 262000 2703.00 59 40 73.88 64.61 73.99 0.000775 2.71 998.81 280.60 0.25 North Main reach 3 (south) 262000 5237.00 59.40 75.08 67.14 7418.25 0.000154 1.35 3688.42 0.12 North Main 1565.00 reach 3 (south) 280000 59 40 70.74 63.04 70.79 0.000206 1.92 813.96 141.38 0.14 North Main reach 3 (south) 260000 2291.00 59.40 71.70 63.96 71.79 0.000280 2.36 1109.80 636.34 0.17 North Main reach 3 (south) 260000 3206.00 59 40 73.16 64.96 73.23 0.000241 2.26 2115.98 724.22 0.16 North Main reach 3 (south) 260000 6165.00 59.40 74.77 67.44 74.81 0.000216 2.01 6283.72 2307.97 0.15 North Main reach 3 (south) 258000 1565.00 58.66 70.40 62,05 70 47 0.000134 2.00 783.40 90.06 0.12 North Main 258000 reach 3 (south) 2291.00 58.66 71 17 62.90 71.28 0.000226 2.68 853.62 92.95 0.16 North Main reach 3 (south) 258000 3206.00 58.66 72.55 63 83 72 70 0.000279 3.16 1407.27 1143.01 0.18 North Main each 3 (south) 258000 6165.00 58.66 74.24 66.26 74.34 0.000260 3.24 5860.31 3333.94 0.17 North Main 258681 1565.00 58,71 reach 3 (south) 70.20 62.22 70.27 0.000159 2 10 746 56 91.48 0.13 North Main reach 3 (south) 256681 2291.00 58.71 70.83 63 12 70.95 0.000277 2.85 804.33 94.30 0.17 North Main reach 3 (south) 256681 3206.00 58,71 72.15 64.09 72.31 0.000320 3.24 1437.21 944.54 0.19 North Main reach 3 (south) 256681 6165.00 58.71 74.07 66.57 74.08 0.000124 1.40 10036.97 3979.91 0.11 North Main 1565.00 58.27 reach 3 (south) 258121 70.20 60.74 70.22 0.000042 1.20 1307.47 139.20 0.07 North Main 256121 reach 3 (south) 2291.00 58.27 70.81 61.35 70.85 0.000075 1.64 1394.21 141,97 0.09 North Main 256121 58,27 reach 3 (south) 3206.00 72.08 62.02 72.14 0.000184 1 97 1626 03 2491.28 0.14 North Main 6165.00 reach 3 (south) 256121 58.27 74.04 63.78 74.04 0.000042 12616.26 1.04 3691.26 0.07 North Main 255591 1565.00 58.07 reach 3 (south) 70 14 61 69 70 18 0.000133 1.72 1165.27 2925.53 0.12 North Main reach 3 (south) 255591 2291.00 58.07 70.73 62 56 70.79 0.000206 2.19 1455.49 2991.82 0.14 North Main reach 3 (south) 255591 3206.00 58.07 71.97 63.50 72.03 0.000219 2 18 2375 91 3409.82 0.15 North Main reach 3 (south) 255591 6165.00 58.07 74.02 65.91 74.02 0.000020 0.69 17352.46 3508.22 0.05 North Main 1565.00 254845 58.07 70.09 reach 3 (south) 61 47 70 11 0.000060 1 34 2899.84 3937.21 0.08 North Main 254845 reach 3 (south) 2291.00 58.07 70.65 62.33 70.66 0.000113 1.22 4021.30 4057.50 0.10 North Main 254845 58.07 reach 3 (south) 3206.00 71.94 63 25 71 94 0.000058 0.01 6761.47 4243.89 0.07 North Main 254845 each 3 (south) 6165.00 58.07 74.01 65.65 74.01 0.000011 0.49 23296.69 4330.02 0.03 North Main 254765 each 3 (south) 1565.00 58.07 70.09 61.47 70.11 0.000061 1.34 2890.55 3936.80 0.08 North Main 254765 2291.00 58.07 reach 3 (south) 70.64 62.33 70.65 0.000115 1.23 3990.98 4056 68 0.10 North Main 254765 58.07 each 3 (south) 3206.00 71.93 63.25 71.93 0.000059 0.91 6740 58 4243.06 0.07 North Main 254765 58.07 reach 3 (south) 6165.00 74.01 65.65 74.01 0.000011 0.49 23276.31 4329.97 0.03 North Main 254000 1565.00 58.07 69.97 61.54 reach 3 (south) 70.04 0.000149 2.11 743.02 84 92 0.13 North Main reach 3 (south) 254000 2291.00 58.07 70.61 62.46 70.61 0.000020 0.68 8891.81 4119.64 0.04 North Main 254000 3206.00 58.07 reach 3 (south) 71.91 63.44 71.91 0.000013 0.56 13020.31 4246 23 0.04 North Main 254000 reach 3 (south) 6165.00 58.07 73.99 65.99 74.00 0.000013 0.63 19831.49 4274.21 0.04 North Main 69.62 reach 3 (south) 252000 1565.00 58.08 61.85 69.70 0.000187 2.24 698.35 87.41 0.14 North Main reach 3 (south) 252000 2291.00 58.08 70.58 62.80 70.5B 0.000023 5956 10 0.67 8436.64 0.05 North Main reach 3 (south) 252000 3206.00 58.08 71.89 63.81 71.89 0.000014 0.58 12323.81 5964.73 0.04 reach 3 (south) 252000 6165.00 58.08 73.97 66.38 73.97 0.000014 0.68 18505.63 5975.45 0.04 North Main reach 3 (south) 250860 1565,00 57.32 69.42 60.90 1.71 69.46 0.000214 915.27 193.03 0.14 North Main reach 3 (south) 250860 2291.00 57.32 70.54 61.84 70.55 0.000044 0.83 4955.65 5042.94 0.06 North Main 250860 reach 3 (south) 3206.00 57.32 71.87 71.87 62.84 0.000031 0.81 7044.94 4960.88 0.06 North Main each 3 (south) 250860 6165.00 57.32 73.95 65.39 73.95 0.000036 1.01 10199.77 4981 62 0.06 North Main reach 3 (south) 250000 1630.00 57.29 69.31 60.32 69.35 1.63 0.000092 1001.26 119.72 0.10 North Main reach 3 (south) 250000 2428.00 57.29 70.51 61.17 70.51 0.000058 0.95 5173.87 5006.17 0.07 North Main reach 3 (south) 3444.00 250000 57.29 71.85 71.85 62.10 0.000035 5055.88 0.83 7952.69 0.06 North Main 250000 57.29 73,94 reach 3 (south) 6802.00 64.50 73.94 0.000007 0.43 30197.91 5097.51 0.03 North Main reach 3 (south) 248746 1630.00 57.29 69.13 60.88 69.19 0.000165 2.09 778.53 98.91 0.13 61.88 North Main 248746 2428.00 reach 3 (south) 57.29 70.37 70.41 0.000243 1.85 2101.96 3903.02 0.15 North Main 3444.00 57.29 71.77 62.94 reach 3 (south) 71.80 0.000142 1.66 3418.63 3915.08 0.12 North Main 248748 reach 3 (south) 6802.00 57.29 73.93 65.66 73.93 0.000014 0.62 21990.10 3932,74 0.04 North Main reach 3 (south) 248519 1630.00 57.29 69.09 60.88 69.16 0.000158 774.85 94.14 2.10 0.13

HFC-PAS Plan- P 50% D (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev Reach River Sta E.G. Slope Vel Chnl Flow Area Top Width Froude # Ch! (cfs) (ft) (ft) (ft) (fl/s) (sq fl) (11) North Main reach 3 (south) 248519 2428.00 57.29 70.31 61.88 70.36 0.00026 1.86 3902.59 2054.60 0.15 North Main reach 3 (south) 248519 3444.00 57.29 71.74 62.94 71.77 0.000145 1.65 3393.20 3914.85 0.12 reach 3 (south) North Main 248519 6802.00 57.29 73.92 65.66 73 92 0.000014 0.61 21958.90 3932.68 0.04 North Main reach 3 (south) 248000 1630.00 57.30 68.99 61.28 69.07 0.000185 2.24 726.14 90.46 0.14 North Main reach 3 (south) 248000 2428.00 57.30 70.28 62 30 70.29 0.000063 1.29 4837.47 3882.15 0.08 North Main reach 3 (south) 248000 3444.00 57.30 71.72 63.33 71.73 0.000039 1.02 7665.78 3964.6D 0.08 North Main reach 3 (south) 248000 6802.00 57.30 73.91 66.06 73.92 0.000014 0.68 22145.70 4016.60 0.04 North Main 247476 1630.00 reach 3 (south) 57.30 68.61 66.70 68 83 0.001791 3.81 427.55 118.64 0.35 North Main reach 3 (south) 247478 2428.00 57.30 70.26 70.26 67.29 0.000067 0.81 4906.70 3902.61 0.07 reach 3 (south) 247478 3444.00 57.30 71.71 67.94 71.71 0.000040 0.76 7624.32 4066.27 0.06 North Main reach 3 (south) 247476 6802.00 57.30 73.91 70.00 73.91 0.000019 0.66 20518.20 4202.29 0.04 North Main reach 3 (south) 247400 1630.00 57.30 68 49 66 Rt 68.70 0.001670 3.63 449.61 129.34 0.34 North Main reach 3 (south) 247400 2428.00 57.30 70.25 67.15 70.26 0.000067 0.82 4892.11 3894.02 0.07 North Main 247400 reach 3 (south) 3444.00 57.30 71.71 67.79 71.71 0.000040 0.77 7601.69 4058.18 0.06 North Main reach 3 (south) 247400 6802.00 57.30 73.90 69.49 73.90 0.000020 0.66 20451.14 4194.33 0.04 North Main reach 3 (south) 246000 1630.00 57.05 67.96 60.62 68.04 0.000203 2.28 714.12 93.48 0.15 North Main reach 3 (south) 246000 2428.00 57.05 70.12 61.61 70.15 0.000097 1.63 2921.51 3499.10 0.10 North Main reach 3 (south) 246000 3444.00 57.05 71.61 62.65 71 63 0.000077 1.52 4278.19 3551.03 0.09 North Mair reach 3 (south) 246000 6802.00 57.05 73.88 65.30 73.88 0.000017 0.81 19718.70 3566.16 0.04 North Main reach 3 (south) 244000 1630.00 57.05 67.28 61.42 67.44 0.000457 3.14 519.56 76,86 0.21 North Mair reach 3 (south) 244000 2428.00 57.05 69.59 62.54 69.77 0.000429 3.42 709.21 87.44 0.21 North Main reach 3 (south) 244000 3444.00 71.39 57.05 63.72 71.43 0.000139 2.11 3521.11 5914.84 0.12 North Mair each 3 (south) 244000 6802.00 57.05 73.85 66,66 73.85 0.000007 0.44 32065.66 6013.20 0.03 North Main 56.61 reach 3 (south) 242500 1630.00 66.58 61.05 66.74 0.000467 3.20 509.73 74.37 0.22 North Main reach 3 (south) 242500 2428.00 56.61 68.94 62.07 69.12 0.000436 3.49 695.95 84.04 0.21 North Main reach 3 (south) 242500 3444.00 56.61 70.82 63,17 71.06 0.000478 3.96 1029.39 3627,18 0.23 North Main reach 3 (south) 242500 6802.00 56.61 73.82 66.03 73.83 0.000046 1.34 14367.30 3758.79 0.07 North Main 241505 reach 3 (south) 1630.00 56.61 66.14 60.37 66,29 0.000436 3.13 520.48 73.99 0.21 North Mair reach 3 (south) 241505 2428.00 56.61 68,52 61.41 68 70 0.000412 3.43 707.91 83.62 0.21 North Main reach 3 (south) 3444.00 56.61 70.34 62.51 70.58 0.000475 3 97 91,00 0.23 North Main reach 3 (south) 241505 6802.00 56.61 73.09 65.41 73.65 0.000891 6.00 1132.96 839.50 0.32 North Mair reach 3 (south) 240950 1630.00 56.61 65.88 60.53 66.04 0.000489 3.19 511.21 78.00 0.22 North Mair reach 3 (south) 2428.00 56.61 68.29 61.55 68.47 0.000433 3.41 712.78 0.21 North Mair reach 3 (south) 240950 3444,00 56.61 70.08 880.59 62.64 70.32 0.000486 3 91 97.74 0.23 North Main reach 3 (south) 240950 6802.00 56.61 72.59 65.42 73.15 0.000932 5.96 1140.99 314.20 0.33 North Mein reach 3 (south) 240919 1630.00 56.61 65.86 60.53 66.02 0.000492 3.20 509 94 77.92 0.22 North Mair reach 3 (south) 240919 2428.00 56.61 68.27 61.55 68,45 0.000435 3.41 711 50 89.42 0.21 reach 3 (south) North Main 240919 3444.00 56,61 70.06 62.64 70.30 0.000489 3.92 879.00 97.67 0.23 North Main reach 3 (south) 240919 6802.00 56.61 72.56 65.42 73.11 0.000941 5.98 1137.19 305.55 0.33 North Main reach 3 (south) 240000 1630.00 55.47 65.59 59.11 65.69 0.000250 2 48 656 18 87.92 0.16 North Main reach 3 (south) 240000 2428.00 55.47 68.02 60.01 68.14 0.000241 2.75 881.97 97.77 0.16 North Main reach 3 (south 240000 3444.00 55.47 60.97 69.77 69.94 0.000290 3.25 1059.12 104.86 0.18 North Main reach 3 (south) 240000 6802.00 55.47 71.94 63.53 72.37 0.000647 5.25 1295.53 113.63 0.27 North Main reach 3 (south) 239550 1630.00 55.23 65.48 58.93 65.57 0.000259 2.52 647.87 R7 55 0.16 reach 3 (south) North Main 239550 2428.00 55.23 67.91 59.85 68.03 0.000248 2.78 874.21 98.22 0.16 reach 3 (south) North Main 239550 3444.00 55.23 69.64 60.88 69.80 0.000300 3.28 1050.15 105.78 0.18 North Main reach 3 (south) 239550 6802.00 55.23 71.61 63.48 72.06 0.000697 5.37 1267.72 114.29 0.28 North Main mach 3 (south) 239488 1630.00 55.23 65.45 58.93 65.55 0.000261 2.52 645.94 87.45 0.16 North Main reach 3 (south) 239468 2428 00 55.23 67.89 59.86 68.01 0.000250 2.78 872.13 98.13 0.16 North Main reach 3 (south) 23946B 3444 00 55.23 69.61 60.88 69.78 0.000303 3.29 1047.41 105.66 0.18 North Main reach: 3 (south) 239468 6802.00 55.23 71.55 53.48 72.00 0.000708 5.40 1260.48 114.02 0.29 North Main reach 3 (south) 238000 1630.00 54.74 65.08 58.50 65.18 0.000249 2.51 650.67 85.39 0.16 North Main reach 3 (south) 238000 2428 00 54.74 67.53 59.41 67.65 0.000242 2.79 871.12 94.61 0.16 3444,00 North Main reach 3 (south) 238000 54.74 69.16 60.40 69.33 0.000304 3.34 1030.38 100.79 0.18 North Mair reach 3 (south) 238000 6802.00 54.74 71.28 62.99 71.36 0.000219 6166.98 3.06 2449.52 0.16 North Main reach 3 (south) 237265 1630 00 54 61 64.91 58.13 65.00 0.000245 2.50 651.13 84.36 0.16 North Main reach 3 (south) 237285 2428 00 54.61 67.36 59.07 67.48 0.000240 2.79 869.70 93.76 0.16 North Main reach 3 (south) 237285 3444 00 54.61 68.93 60.09 59.11 0.000309 3.37 1021.71 99.78 0.19 North Main reach 3 (south) 237265 6802.00 54.61 71.24 62.75 71.25 0.000085 1.52 9922.03 2920.57 0.09 North Main reach 3 (south) 236620 1630.00 54 53 64 75 58.02 64.84 0.000228 2.39 681.06 90.19 0.15 North Main reach 3 (south) 236620 2428.00 54.53 67,21 58.91 67.32 0.000220 2.65 915.79 100.60 0.15 North Main reach 3 (south) 236620 3444 00 54.53 68.75 59.89 68.91 0.000282 3.20 1075.95 107.08 0.18 North Main 71.21 reach 3 (south) 236620 6802.00 54.53 62.45 71.22 0.000050 1.47 10830.56 2196.06 0.08

HEC-RAS Plan. P. 50% D. (Continued) Reach River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chl (cfs) (ft) (f1) (11) (ft/ft) (ft) (ft/s) (sq ft) (ft) North Main reach 3 (south) 236000 1630 00 54 54 64.57 58.03 64.68 0.000272 2.58 84 69 630 72 0.17 North Main reach 3 (south) 236000 2428.00 54 54 67.04 58.97 67.16 0.000260 2.85 852 28 95.13 0.17 North Main reach 3 (south) 236000 3444 DO 54 54 68 53 60,02 0.000338 3.45 998.40 101.43 0 19 North Main reach 3 (south) 236000 6802.00 54.54 71.16 71.19 0.000123 1.88 7711.69 2079.66 0.11 North Main reach 3 (south) 235490 1630 00 54 49 64.38 58.23 64.5 0.000370 2.92 557,41 77.73 0.19 North Main reach 3 (south) 235490 2428 00 54 49 66.85 59.26 67.01 0.000345 3.18 762,82 88.57 0.19 North Main reach 3 (south) 235490 3444.00 54 49 68.28 60.37 68.51 0.000450 3.85 893.46 94.82 0.22 North Main reach 3 (south) 235490 6802.00 54.49 71.01 71.07 63.23 0.000502 2.53 4159.86 1341.23 0.21 North Main reach 3 (south) 235442 1630.00 54.49 64 36 58.23 64.50 0.000372 2.93 555.96 77.65 0.19 North Main reach 3 (south) 235442 2428 00 54 49 66.83 59.26 66.99 0.000347 3.19 761.28 88.49 0.19 North Main reach 3 (south) 235442 3444.00 54.49 68.25 60.37 68 49 0.000453 3.86 891.28 94.72 0.22 North Main reach 3 (south) 235442 5802.00 54.49 70.97 63.23 71.05 0.000496 2.67 4116.19 1335.40 0.21 North Main reach 3 (south) 234280 1630.00 53.37 64.19 56.31 64 25 0.000115 1.83 890.21 105.67 0,11 North Main reach 3 (south) 234280 2428.00 53,37 56.68 57.11 66.75 0.000118 2.08 1165.18 115.74 0.12 North Main reach 3 (south) 234280 3444.00 53.37 68.04 57 96 68 15 0.000165 2.60 1327.04 121.29 0.14 North Main reach 3 (south) 234280 6802.00 53.37 70.39 60.24 70.49 0.000457 2,86 4105.99 2074.92 0.21 North Main 112500 77.61 below diversion 550.00 70.00 71.75 77.64 0.000066 1.36 407.26 67.01 0.09 North Main 112500 below diversion 1180.00 70.00 80.24 72.86 80.31 0.000094 2.04 871.14 1331.96 0.12 North Main below diversion 112500 1975.00 70.00 82.63 73.96 82.64 0.000030 1.34 6519.85 3697.25 0.07 North Main below diversion 112500 4000.00 70.00 85.89 76.11 85.89 0.000007 0.78 2360B.14 9077,23 0.04 North Main below diversion 111500 550.00 70.00 77.57 77.54 71.81 0.000074 1.43 389.25 65.50 0.10 111500 North Main below diversion 1180.00 70.00 80.17 72.96 80.21 0.000083 1.90 1351.85 1480.01 0.11 North Main below diversion 111500 1975.00 70.00 82.60 74.09 B2.61 0.000024 1.20 7795.52 4028.21 0.06 North Main below diversion 111500 4000.00 70.00 85.88 76.26 85.88 0.000007 0.74 26226.59 7762.72 0.03 North Main below diversion 108769 550 00 70.00 77,33 71,88 77.36 0.000078 1.40 397 77 73.58 0.10 North Main balow diversion 108789 1180 00 70.00 79 RR 73.02 79.95 0.000106 2.07 602.60 86.71 0.13 North Main below diversion 108769 1975 00 70.00 R2 43 74.14 82.49 0.000088 2.25 2123.06 1173.00 0.12 North Mair below diversion 108769 4000.00 70.00 85.83 76.22 85.85 0.00002 1.48 16578.35 9892.31 0.07 North Mair 108564 550.00 below diversion 70.00 77 31 71 77 77.34 0.000075 1.40 395.76 69.50 0.10 North Main below diversion 108564 1180.00 70.00 79 84 72.89 79.91 0.000108 2.11 585.42 80.06 0.13 North Main below diversion 108564 1975.00 70.00 **B2 34** 73.99 82.45 0.000127 2.71 824.42 217.89 0.14 North Main below diversion 108564 4000.00 70.00 85 83 76.11 85.84 0.000028 16292.73 9865.38 0.07 North Main 108524 below diversion Bridge North Main below diversion 108484 550.00 70.00 77.28 71.77 77.32 0.000076 1.41 394.09 69.40 0.10 North Main below diversion. 108484 1180.00 70.00 79.83 72.89 79.90 0.000106 2.11 584.28 80.00 0.13 North Main below diversion 1975.00 70.00 82 23 73 99 82 34 0.000131 2.74 801.84 184.32 0.15 North Main 108484 below diversion 4000.00 70.00 85.80 76.11 85.82 0.000029 1.56 16118.23 9818.49 0.07 North Main below diversion 108424 550.00 70.00 77.28 71.7B 77.31 0.000077 1.41 393 53 69 36 0.10 North Main below diversion 108424 70.00 1180.00 79.82 72.89 79.89 0.000109 2.12 583 33 79.95 0.13 North Main below diversion 108424 1975.00 70.00 82.21 73.99 82,33 0.000132 2.74 799.08 179.79 D.15 orth Main low diversion 108424 4000.00 70.00 85.80 76.11 85.81 0.000030 1.56 16109 48 9809 45 0.07 North Main 108200 550.00 70.00 low diversion 77.26 71.75 77.29 0.00007 1.42 391.31 67.95 0.10 108200 North Main below diversion 1180.00 70.00 79.79 72.85 79.86 0.000111 2.14 575.96 77.88 0.13 North Mair below diversion 108200 1975.00 70.00 82.18 73.96 82,30 0.000135 214.59 2.77 786.67 0.15 North Main relow diversion 108200 4000.00 70.00 85.78 76.08 85.80 0.000029 15196.20 9414.98 1.56 0.07 North Main below diversion 107200 550.00 70.00 77.19 71.65 77.21 0.000069 1.34 70.69 0.10 North Mair noissevib woled 107200 1180 00 70.00 79.69 72.70 79.75 0.00010 2.04 80.12 600,58 0.12 North Main 82.16 below diversion 107200 1975.00 70.00 82.05 73.76 0.000124 2.66 805.27 224.09 0.14 North Main below diversion 107200 4000.00 70.00 85.76 75.82 0.000025 85.77 1.44 16171.15 9168.93 0.07 North Main below diversion 105420 649.00 70.00 77.03 71 91 77.07 0.000088 442.50 79.59 0.11 North Main below diversion 105420 1200.00 70.00 79,51 72.74 79.57 0.000091 652.64 1.90 89.94 0.12 North Main 105420 below diversion 1878.00 70.00 81.87 73 56 81 95 0.000095 100.31 2.30 876.45 0.12 North Main low diversion 105420 3703.00 70.00 85.74 75.33 85.74 0.000015 16619.74 9057.84 0.05 North Main 105350 below diversion 649.00 70.00 77.01 72.04 77.06 0.000116 1.80 376 41 68 40 0.13 North Main below diversion 105350 1200.00 70.00 79.47 72.97 79.56 0.000130 2 36 556 54 78.18 0.14 North Main selow diversion 105350 1878.00 70.00 81.80 73.90 81.92 0.000141 2.88 749.09 87.39 0.15 North Main below diversion 105350 3703.00 70.00 85.73 75.80 85.74 0.000020 1.33 16406.51 9181.95 0.06 North Main selow diversion 105335 Bridge North Main selow diversion 105320 649.00 70.00 76.99 72.04 77.04 0.000118 374.56 1.81 68.29 0.13 North Main 105320 elow diversion 1200.00 70.00 79.54 79.46 72.97 0.000131 555.54 2.37 78.13 0.14 North Main below diversion 105320 1878.00 70.00 81.69 73.90 0.000146 81.82 739.86 2.91 86.98 0.15

North Mair

selow diversion

105320

3703.00

70.00

85.71

75.80

85.72

0.00002

1.34

16222.78

9151.06

0.06

HEC-RAS, Plant P. 50% D. (Continued) Min Ch El W.S. Elev Q Total Crit W.S. E.G. Elev E.G. Slope Vel Chril River Sta Flow Area Top Width Froude # Chl (cfs) (ft) (ft/ft) (fVs) (sq fl) (ft) (R) 76.98 North Main elow diversion 105235 649.00 70.00 72.04 77.03 0.000119 1.81 68.26 0.13 North Main below diversion 105235 1200.00 70.00 79.45 72.97 79.53 78.09 0.000131 2.37 554.76 0.14 North Main 1878.00 70 00 81.68 73.90 81.81 below diversion 105235 0.000147 2.91 738.88 86.93 0.15 below diversion North Main 105235 3703.00 70.00 85.70 75.80 85.71 0.000022 1.39 15541.18 0.06 9032.97 North Main 104800 649.00 70.00 76.92 71 95 76.97 0.000120 1.82 372.39 68.60 0.13 North Main below diversion 104800 1200.00 70.00 79.38 72.90 79.47 0.000133 2.38 554.53 79.15 0.14 1878.00 70.00 81.61 73.85 81.74 0.000149 2.92 North Main 104800 741.11 88.58 0.16 selow diversion North Main 3703.00 70.00 85.67 75.77 85.69 104800 0.000038 1.82 12398.49 6792.57 0.08 North Main 104148 649.00 70.00 76.85 76.89 0.000107 1.72 394.16 0.12 oelow diversion 72.41 North Main 104148 1200.00 70.00 79.31 79.38 0.000119 2.25 586.25 83.94 0.13 North Main below diversion 104148 1878.00 70.00 81.53 81.64 0.000133 2.76 784.07 94.32 0.15 North Main dow diversi n 104146 3703.00 70.00 85.62 85.66 0.000055 2.20 9176.01 5899.72 0.10 North Mair 104118 649 00 70 NO 76 R4 76.89 0.000108 1.72 72.40 0.12 393.92 North Main below diversion 104116 1200 00 70.00 79.30 79.38 0.000119 2.25 585.94 83.93 0.13 North Mair 104116 1878.00 70.00 81.52 81.64 0.000134 2.77 783.68 94.30 0.15 below diversion North Main 9165.35 below diversion 104118 3703.00 70.00 85,61 85 65 0.000055 2.20 5896.20 0.10 North Main below diversion 103000 649.00 70.00 76 73 78 7R 0.000115 1 75 385 61 71 88 0.12 North Mai below diversion 103008 1200.00 70.00 79.18 79.26 0.000126 2.29 575.27 83.31 0.14 North Main below diversion 103008 1878.00 70.00 81.38 81.50 0.000140 2.81 770.22 93.64 0.15 North Main below diversion 103008 3703.00 70.00 85.55 85.60 0.000059 2.26 8802.58 5774.98 0.10 76.77 102913 70.00 76.72 0.000119 1.78 378 39 North Main below diversion 649.00 70.33 0 13 102913 1200.00 North Main below diversion 70.00 79.17 79.25 0.000130 2.32 562.42 80.35 0.14 North Main below diversion 102913 1878.00 70.00 81.37 81.49 0.000144 2.84 749.16 89.41 0.15 70.00 North Main below diversion 102913 3703.00 85.52 85.59 0.000076 2.57 6366.38 3488.11 0.12 649.00 71.83 76,77 North Main below diversion 102850 70.00 76.72 0.000115 1.75 384.94 71.84 0.12 North Main below diversion 102850 1200.00 70.00 79.16 72.72 79.24 0.000127 573.84 2.29 83.22 0.14 North Main below diversion 102850 1878.00 70.00 81,36 73.63 81.48 0.000141 2.81 768.21 93.54 0.15 below diversion 70.00 85.53 75.49 85.58 8698.13 102850 3703.00 0.000060 2.28 North Mai 5739.60 0.10 North Main below diversion 102835 Bridge 102820 649.00 76.71 76.76 0.000116 1.75 384.56 71.82 0.12 North Main below diversion 70.00 North Main below diversion 102820 1200.00 70.00 79.15 79.23 0.000127 2.29 572.81 83.16 0.14 North Main below diversion 102820 1878.00 81.34 0.000142 0.15 70.00 81.46 2.82 766.79 93,47 3703.00 85.49 85.54 2.33 8443.68 5652.49 North Main below diversion 102820 70.00 0.000063 0.11 North Main 102600 649.00 70.00 76.68 76.73 0.000138 1.90 352.61 65.14 0.14 below diversion 102600 North Main 1200.00 79.10 79.19 0.000151 2.49 520.89 0.15 70.00 73.75 below diversion 690.06 North Main 1878.00 70.00 81.28 0.000169 3.06 0.16 102600 81.42 81.38 below diversion North Main 70.00 85.37 3.32 4440,27 3861.36 0.15 102600 3703.00 85.49 0.000129 below diversion 101500 649.00 70.00 76.52 76.58 0.000141 1.89 353.86 67.52 0.14 North Main below diversion North Main 1200.00 70.00 78.93 79.03 2.46 528.37 0.15 below diversion 101500 0.000152 77.29 North Main below diversion 101500 1878.00 70.00 81,10 81.24 0.000168 3.02 705,10 86.05 0.16 101500 3703.00 70.00 85.07 85.30 0.000198 4.06 2059.32 2412.44 0.19 below diversion North Main North Main below diversion 100000 649.00 70.00 76.27 76.33 0.000201 1.98 327.94 67.86 0.16 North Main 1200.00 70.00 2.44 below diversion 100000 78,69 78.78 0.000179 503.63 77.11 0,16 2.93 0.17 below diversion 100000 1878.00 70.00 80.84 80.97 0.000183 677.65 84.72 North Main North Main below diversion 100000 3703.00 70.00 84.76 84.99 0.000212 3,98 1155.77 219.07 0.19 649.00 70.00 76.24 76.30 0.000186 1.93 336.59 68.27 0.15 North Mair below diversion 99900 below diversion 1200.00 70.00 78.76 0.000169 2 39 513,48 77.67 0.15 North Main 99900 78.67 North Mair below diversion 99900 1878.00 70.00 80.82 80.95 0.000175 2 88 689.06 85.58 0.16 North Mair below diversion 99900 3703.00 70.00 84.73 84 98 0.000205 3.92 1158.43 192.56 0.19 North Mair 99708 649 00 70.00 76 21 76 27 0.000204 1.95 332 54 71 37 0.16 North Main below diversion 99708 1200.00 70.00 78 63 78.72 0.000173 2.38 519.07 82.26 0.16 North Mair 99708 1878 00 70.00 80.78 80.90 0.000174 2 83 705 24 91 23 0.16 edour die North Main below diversion 99708 3703.00 70.00 84.70 84.92 0.000197 3.82 1161.15 149.79 0,19 North Main below diversion 99592 649 00 70 00 76 17 75.24 0.000233 2.12 306.19 63.31 0.17 North Mair below diversion 99592 1200.00 70.00 78.59 78.70 0.000207 2,61 469.67 71.83 0.17 North Main below diversion 99592 1878 00 70.00 80.73 80.88 0.000213 3.14 631.05 79.21 0.18 North Mair below diversion 99592 3703.00 70.00 84.62 84.89 0.000246 4.25 1054.00 136.66 0.21 1.91 340.09 0.15 North Mair below diversion 99550 649.00 70.00 76.17 71.89 76.23 0.000183 68.09 North Main below diversion 99550 1200.00 70.00 78.59 72.79 78.68 0.000188 2.32 516.92 77.96 0.16 0.17 North Mak below diversion 99550 1878 00 70.00 8D 75 73.70 80.86 0.000200 2.70 694.50 86.87 1173.10 0.19 North Main below diversion 99550 3703.00 70.00 84.68 75.63 84.86 0.000222 3.42 230.72 North Main below diversion 99535 Bridge

| River                                     | Plan• P 50% f<br>Reach                  | River Sta      | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S. | E.G. Elev      | E.G. Slope | Vei Chni     | Flow Area        | Top Width       | Froude # Chi |
|---|---|----------------|--------------------|----------------|----------------|-----------|----------------|------------|--------------|------------------|-----------------|--------------|
| Mark 6631                                 |   |                | (cfs)              | (ft)           | (ft)           | (ft)      | (ft)           | (fl/ft)    | (ft/s)       | (sq ft)          | (ft)            |              |
| North Main<br>North Main                  | below diversion                         | 99520          | 649.00             |                | 76.16          | 71.89     | 76.21          | 0.000185   | 1.91         | 339.16           | 68.04           | 0.15         |
| North Main                                | below diversion below diversion         | 99520<br>99520 | 1200.00            |                | 78.58          | 72.79     | 78,66          | 0.000189   | 2,33         | 515.64           | 77.89           | D.16         |
| North Main                                | below diversion                         | 99520          | 1878.00<br>3703.00 |                | 80.73<br>84.65 | 73.70     | 80.84          | 0.000202   | 2.71         | 692.68           | 86.78           | 0.17         |
|   |   | 3300 A         | 3700.00            | 70.00          | 54.05          | 75.63     | 84.83          | 0.000224   | 3.44         | 1167.67          | 228.85          | 0.15         |
| North Main                                | below diversion                         | 99507          | 649.00             | 70.00          | 76.15          |           | 76.21          | 0.000185   | 1.91         | 338.99           | 68.03           |              |
| North Main                                | below diversion                         | 99507          | 1200.00            | 70.00          | 78.57          |           | 78.66          | 0.000190   | 2.33         | 515.44           | 77,88           | 0.15         |
| North Main                                | below diversion                         | 99507          | 1878.00            |                | 80.72          |           | 80.84          | 0.000202   | 2.71         | 692.44           | 86.77           | 0.10         |
| North Main                                | below diversion                         | 99507          | 3703.00            | 70.00          | 84.65          |           | 84.82          | 0.000222   | 3.42         | 1224.48          | 228.66          | 0.19         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 98900          | 665.00             | 70.00          | 76.03          |           | 76.09          | 0.000223   | 2.02         | 329.47           | 70.79           | 0.16         |
| North Main                                | below diversion                         | 98900          | 1249.00            |                | 78.45          |           | 78.54          | 0.000194   | 2.49         | 510.58           | 78.86           | 0.16         |
| North Main                                | below diversion                         | 98900          | 1979.00            | 70.00          | 80.58          |           | 80.72          | 0.000201   | 3.01         | 691.32           | 95.89           | 0.17         |
| North Main                                | below diversion                         | 98900          | 3903.00            | 70.00          | 84.42          |           | 84.68          | 0.000234   | 4.11         | 1125.32          | 206,56          | 0.20         |
| At Late As A                              | 2 2 2 3 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 | 4742 (3744)    |                    |                |                |           |                |            |              | <u> </u>         |                 |              |
| North Main                                | below diversion                         | 97900          | 665.00             | 70.00          | 75.80          |           | 75,86          | 0.000236   | 2.05         | 324.07           | 70.86           | 0.17         |
| North Main<br>North Main                  | below diversion.  below diversion       | 97900          | 1249.00            |                | 78.25          |           | 78.35          | 0.000198   | 2.49         | 510.74           | 80.94           | 0.17         |
| North Main                                | below diversion                         | 97900          | 1979.00<br>3903.00 | 70.00<br>70.00 | 80.38          |           | 80.52          | 0.000202   | 3.00         | 694.34           | 97.85           | 0.18         |
| ( voi d) indiii                           | DOION GIGING                            | 37300          | 3503.00            | 70.00          | 84.20          |           | 84.44          | 0.000231   | 4.06         | 1145.58          | 233.21          | 0.20         |
| North Main                                | below diversion                         | 95000          | 665.00             | 68.00          | 75.36          |           | 75.40          | 0.000107   | 1 60         | 200.22           | 00.04           |              |
| North Main                                | below diversion                         | 95000          | 1249.00            | 68.00          | 77.81          |           | 77.89          | 0.000107   | 1.68<br>2.25 | 399.22<br>581.45 | 69.34<br>79.41  | 0.12         |
| North Main                                | below diversion                         | 95000          | 1979.00            | 68.00          | 79.88          |           | 80.00          | 0.000123   | 2.25         | 754.63           | 79.41<br>87.94  | 0.13<br>0.15 |
| North Main                                | below diversion                         | 95000          | 3903.00            | 68.00          | 83.57          |           | 83.81          | 0.000197   | 4.00         | 1287.01          | 187.90          | 0.19         |
| 200 S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |   |                |                    |                |                |           |                |            |              | .207.01          | 101.80          | 0,13         |
| North Main                                | below diversion                         | 94730          | 665.00             | 68.00          | 75.33          |           | 75.38          | 0.000116   | 1.74         | 384.45           | 67.13           | 0.12         |
| North Main                                | below diversion                         | 94730          | 1249.00            | 68.00          | 77.78          |           | 77.86          | 0.000133   | 2.33         | 560.50           | 76.91           | 0.14         |
| North Main                                | below diversion                         | 94730          | 1979.00            | 68.00          | 79.83          |           | 79.96          | 0.000161   | 2.95         | 726.28           | 84.92           | 0.16         |
| North Main                                | below diversion                         | 94730          | 3903.00            | 68,00          | 83.48          |           | 83.75          | 0.000225   | 4.25         | 1061.58          | 98.66           | 0.20         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 94655          | 665.00             | 68.00          | 75.32          | 69.93     | 75.37          | 0.000102   | 1.65         | 406,37           | 69.56           | 0.12         |
| North Main                                | below diversion                         | 94655          | 1249.00            | 68.00          | 77,77          | 70.89     | 77.84          | 0.000118   | 2.21         | 587.88           | 79.00           | 0.13         |
| North Main                                | below diversion                         | 94655          | 1979,00            | 68.00          | 79.81          | 71.87     | 79.94          | 0.000144   | 2.81         | 766.76           | 94.21           | 0.15         |
| North Main                                | below diversion                         | 94655          | 3903.00            | 68.00          | 83.49          | 73.89     | 83.73          | 0.000196   | 3.98         | 1256.63          | 224.22          | 0.18         |
| North Main                                | below diversion                         | 94635          | Calden             |                |                |           |                |            |              |                  |                 |              |
| TWOID I MADIN                             | DOION GAGISION                          | 37000          | Bridge             |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 94620          | 665,00             | 68.00          | 75.30          |           | 75.34          | 0.000103   | 4.00         | 404.00           | 20.47           |              |
| North Main                                | below diversion                         | 94620          | 1249.00            | 68.00          | 77.74          |           | 77.81          | 0.000103   | 1.66         | 404.69<br>585.68 | 69.47           | 0.12         |
| North Main                                | below diversion                         | 94620          | 1979.00            | 68.00          | 79.78          |           | 79.91          | 0.000120   | 2.82         | 763.92           | 78,89<br>94,01  | 0,13<br>0.15 |
| North Main                                | below diversion                         | 94620          | 3903.00            | 68.00          | 83.44          |           | 83.67          | 0.000198   | 4.00         | 1245.23          | 218.49          | 0.15         |
|   |   |                |                    |                |                |           |                | 5.000.00   | 7.00         | 1245.25          | 210.40          | 0.19         |
| North Main                                | below diversion                         | 94530          | 665,00             | 68,00          | 75.29          |           | 75.33          | 0.000104   | 1.66         | 404.13           | 69.44           | 0.12         |
| North Main                                | below diversion                         | 94530          | 1249.00            | 68.00          | 77.73          |           | 77.81          | 0.000120   | 2.22         | 584.92           | 78.86           | 0.13         |
| North Main                                | below diversion                         | 94530          | 1979.00            | 68.00          | 79.77          |           | 79.89          | 0.000146   | 2.82         | 762.83           | 93.94           | 0.15         |
| North Main                                | below diversion                         | 94530          | 3903,00            | 68.00          | 83.42          |           | 83.66          | 0.000199   | 4.01         | 1241.72          | 216,69          | 0.19         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 92150          | 665.00             | 68.00          | 74.98          | 70.15     | 75.04          | 0.000171   | 1.93         | 345.34           | 64.38           | 0.15         |
| North Main                                | below diversion                         | 92150          | 1249,00            | 68.00          | 77.38          | 71,20     | 77.48          | 0.000183   | 2.46         | 512.18           | 74.58           | 0.16         |
| North Main                                | below diversion                         | 92150          | 1979.00            | 68.00          | 79.37          | 72.25     | 79.51          | 0.000205   | 3.05         | 680.07           | 95.22           | 0.18         |
| North Main                                | below diversion                         | 92150          | 3903.00            | 68.00          | 82.88          | 74.39     | B3.15          | 0.000260   | 4.25         | 1095.16          | 139.78          | 0.21         |
| North Main                                | below diversion                         | 92135          | Dridge             |                |                |           |                |            |              |                  |                 |              |
| TO III (HOLI)                             | Delow Grei Broi                         | 82.133         | Bridge             |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 92120          | 665,00             | 68.00          | 74.97          | 70.15     | 75.03          | 0.000172   | 1.93         | 344.74           | 64.34           | 0.15         |
| North Main                                | below diversion                         | 92120          | 1249,00            | 68.00          | 77.37          | 71.20     | 77.46          | 0.000172   | 2.46         | 510.79           | 74.50           | 0.15         |
| North Main                                | below diversion                         | 92120          | 1979.00            | 68.00          | 79.34          | 72.25     | 79.49          | 0.000207   | 3.06         | 677.91           | 95.00           | 0.18         |
| North Main                                | below diversion                         | 92120          | 3903.00            | 68.00          | 82.84          | 74.39     | 83.12          | 0.000263   | 4.26         | 1090.08          | 139,46          | 0.21         |
| Fig. Sapar (Fac.)                         | 1.1-26.8-19.6-27                        | 145 Tay 12 Tay |                    |                |                |           |                |            |              |                  |                 | 21           |
| North Main                                | below diversion                         | 91139          | 665.00             | 68.00          | 74.79          | 70.15     | 74.86          | 0.000190   | 2.00         | 333.24           | 63.57           | 0.15         |
| North Main                                | below diversion                         | 91139          | 1249.00            | 68.00          | 77.17          | 71.20     | 77.27          | 0.000201   | 2.53         | 496.52           | 73.69           | 0.17         |
| North Main                                | below diversion                         | 91139          | 1979.00            | 68.00          | 79.13          | 72.25     | 79.28          | 0.000224   | 3.14         | 657.45           | 92.91           | 0.18         |
| North Main                                | below diversion                         | 91139          | 3903.00            | 68.00          | 82.56          | 74.39     | 82.85          | 0.000285   | 4.37         | 1050.78          | 136,91          | 0.22         |
|   |   |                |                    |                |                |           |                |            |              |                  |                 |              |
| North Main                                | below diversion                         | 91050          | 665.00             | 68.00          | 74.78          | 70.14     | 74.84          | 0.000191   | 2.00         | 332.06           | 63.30           | 0.15         |
| North Main                                | below diversion                         | 91050          | 1249.00            | 68.00          | 77.15          | 71.19     | 77.25          | 0.000203   | 2.54         | 494.55           | 73.35           | 0.17         |
| North Main                                | below diversion                         | 91050          | 1979.00            | 68.00          | 79.10          | 72.25     | 79,26          | 0.000227   | 3.15         | 653.03           | 90,44           | 0.18         |
| North Main                                | below diversion                         | 91050          | 3903.00            | 68.00          | B2.53          | 74.39     | 82.82          | 0.000290   | 4.40         | 1040.49          | 138.68          | 0.22         |
| North Main                                | below diversion                         | 88641          | 665,00             | 68.00          | 74.28          | 70.04     | 74.25          | 0.000222   | 2.00         | 240 00           |                 | 0.40         |
| North Main                                | below diversion                         | 88641          | 1249,00            | 68.00          | 76.63          | 70.04     | 74.35<br>76.74 | 0.000222   | 2.09         | 318.29           | 63.89           | 0.16         |
| North Main                                | below diversion                         | 88641          | 1979.00            | 68.00          | 78.53          | 71.05     | 76.74<br>78.69 | 0.000233   | 2.61<br>3.22 | 480.09<br>627.66 | 73.82           | 0.18         |
| North Main                                | below diversion                         | 88841          | 3903.00            | 68.00          | 81.88          | 74.15     | 82.13          | 0.000235   | 4.18         | 1607.15          | 81.97<br>624.18 | 0,19<br>0.21 |
|   |   | 2-2.6          | - 0203.00          | 30.00          | 51.00          | 74.13     | VZ.13          | 0.000219   | 9.16         | 1007.15          | 024.18          | 0.21         |
| North Main                                | below diversion                         | 88488          | 665.00             | 68.00          | 74.24          | 70.06     | 74.31          | 0.000234   | 2.13         | 311.54           | 62.92           | 0.17         |
| North Mein                                | below diversion                         | 88488          | 1249.00            | 68.00          | 76,59          | 71.08     | 76.70          | 0.000245   | 2.66         | 471.03           | 72.90           | 0.18         |
| North Main                                | below diversion                         | 88488          | 1979.00            | 68.00          | 78.48          | 72.10     | 78.64          | 0.000267   | 3.27         | 619.95           | 90.46           | 0.20         |
| North Main                                | below diversion                         | 88488          | 3903.00            | 68.00          | 81.85          | 74.19     | 82.09          | 0.000271   | 4.11         | 1842.28          | 1050.47         | 0.21         |
|   | The second second                       | T              |                    |                |                |           |                |            |              |                  | 1000.71         |              |

HEC-RAS Plan. P 50% D (Continued) Min Ch El W.S. Elev Crit W.S. Q Total Reach River Sta E.G. Elev E.G. Slope Vel Chal Flow Area Top Width Froude # Chl (cfs) (ft) (ft) (ft) (ft/ft) (ft) (fl/s) (sq fl) North Main below diversion 88300 68.00 665.00 74.20 70.04 74.27 0.000232 2.13 312.59 63 10 0.17 North Main below diversion 88300 1249.00 68.00 76.54 71.05 76.65 0.000244 2.65 471.941 72.70 0.18 North Main below diversion 88300 1979.00 68.00 78 43 72.06 0.000266 3.27 619.25 89.20 0.20 North Main below diversion 88300 3903.00 68.00 81.78 74.13 82.03 0.000289 4.24 1540.19 709.87 0.22 North Main below diversion 87300 665.00 68.00 73.94 70.04 74.02 0.000268 2.24 296.70 61 76 0.18 North Main below diversion 87300 1249.00 68.00 76.27 71.04 76.39 0.000278 2.77 451.40 70 86 0.19 North Mair below diversion 87300 78.13 1979.00 68.00 72.05 78.31 0.000299 3.40 602 12 171 50 0.21 North Main elow diversion 87300 3903.00 68.00 81.58 74.14 81.75 0.000226 3.72 2564.63 1521.81 0.19 North Main below diversion 85942 665.00 68.00 73.43 70.19 73.55 0.000453 2.71 245.24 57.03 0.23 North Main below diversion 85942 1249.00 68 00 75.76 71.25 75.92 0.000426 3.21 389.62 66.74 0.23 North Main low diversion 85942 1979.00 68.00 77.59 72.31 77.82 0.000435 3.85 518.53 74.53 0.25 North Main below diversion 85942 3903.00 68.00 81.05 81.34 0.000382 4.64 1840.31 1288.72 0.25 North Main below diversion 85850 665.00 68.00 73.40 70.21 73.52 0.000469 2.74 242.B7 57 11 0.23 North Main below diversion 85850 1249.00 68.00 75.74 71.28 75.90 0.000437 3.22 388.22 67.61 0.24 below diversion North Main 65850 1979.00 68.00 77.55 72.36 77.79 0.000442 3.85 518.69 75.80 0.25 North Main elow diversion 3903.00 68.00 80.99 74.51 81.32 0.000411 4.78 1524.13 1300.66 0.26 North Main below diversion 85835 Bridge North Main below diversion 85820 665.00 68 00 73 35 70.21 73.47 0.000486 2.77 239.70 56.87 0.24 North Main below diversion 85820 1249.00 68.00 75.67 71 28 75.84 0.000450 3.25 384.15 67.34 0.24 North Main below diversion 85820 1979.00 68.00 77.49 72.36 77.72 0.000456 3.89 513.67 75.50 0.25 North Main below diversion **B5820** 3903.00 68.00 80.90 74.51 81.23 0.000421 4.81 1556.92 1372,44 0.26 North Main below diversion 85763 665.00 68.00 73.32 70.21 73 44 0.000494 2.79 238.22 56.75 0.24 North Main below diversion 85763 1249.00 68.00 75.65 71.28 75.82 0.000456 3.27 382.53 67.23 0.24 North Main below diversion 85763 1979.00 68.00 77.46 72.36 77.70 0.000461 3.90 511.60 75.39 0.25 North Main below diversion 85763 3903.00 68.00 80.85 74.52 81.20 0.000446 4.93 1381.61 1297.37 0.27 North Mair 83100 below diversion 665.00 66,00 72.50 58.21 72.57 0.000240 2.17 305.93 61.30 0.17 North Main below diversion 83100 1249.00 66.00 74.84 69.28 74.95 0.000251 2.72 461.13 71.58 0.18 North Main below diversion 83100 1979.00 66,00 76.57 70.36 76 75 0.000293 3,42 591.78 79.18 0.21 North Main below diversion 83100 3903.00 66.00 79.85 72.52 80.17 0.000356 4.68 1166.57 627.61 0.24 North Main below diversion B2100 665.00 66.00 72.17 68 47 72 29 0.000340 2.73 252.88 55.08 0.21 North Main below diversion 82100 1249.00 66.00 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North Main

below diversion

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HEC-RAS Plan- P 50% D, (Continued) Top Width Froude # Chi Q Total Min Ch El W.S. Eley Crit W.S. E.G. Elev E.G. Slope Vel Chni Flow Area River Sta Reach (cfs): (ft/ft) (fils) (ft) (ft) (fi pe) (ft). 0.000190 2.95 North Main below diversion 77357 1979.00 62.00 73.33 66.10 73.46 692.51 1392.93 0.17 4150.21 North Main below diversion 77357 3903.00 62,00 74.26 68.20 74.69 0.000537 5.28 789.41 0.29 North Main below diversion 77343 Bridge 69.12 North Main below diversion 77329 665.00 62.00 69.07 64.07 0.000146 1.81 368.23 67.15 0.14 North Main 1249.00 62.00 72.59 65.08 72.65 0.000100 2.02 630,53 82,25 0.12 1979.00 73.30 66.10 73,44 0.000192 2.95 690.44 1025.77 0.17 North Main 77329 62.00 74.13 0.000401 4.52 2465.68 2330.09 North Main below diversion 77329 3903.00 62.00 68,19 74.40 0.25 North Main 665.00 60.10 69.07 62.21 69.10 0.000080 1.49 446 16 67 13 0.10 below diversion 77179 North Main 1249.00 60.10 72.58 63.28 72.63 0.000070 1.80 708 49 82 24 0.10 North Main 1979.00 60.10 73,30 64 39 73.41 0.000138 2 65 768 20 2321 78 0 14 below diversion North Main below diversion 77179 3903,00 60.10 74.14 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0.000154 2.85 71.62 64.21 71.73 North Mair below diversion 75000 1979.00 60.00 5298.96 4460.74 0.16 0.000151 3.11 66.35 73.38 North Main below diversion 75000 3903.00 60.00 73.29 0.000115 1.71 389.72 65.46 62.49 0.12 68.32 North Main below diversion 74000 665.00 60.00 0.000141 662.93 70.56 2.32 729.50 0.14 North Main below diversion 74000 1249.00 60.00 70.48 63.61 64.71 71.57 0.000163 2.69 2287.25 2382.56 0.16 1979.00 60.00 71.48 North Main below diversion 74000 66,93 73.25 0.000087 2.20 4315.59 0.12 3903.00 73.22 North Main below diversion 74000 60.00 60.00 68.17 62.46 68.24 0.000140 2.08 418.51 66.02 0.14 856.00 North Main below diversion 73000 2.82 565.83 73.70 0.16 70.28 63.54 70.40 0.000181 1516.00 60.00 North Main below diversion 73000 3.55 633.24 76 92 0.20 60.00 71.17 64.34 71.37 0.000254 2106.00 North Main below diversion 73000 4.70 2890.45 3336.73 0.24 72.80 66.33 73.08 0.000365 3932.00 60.00 North Main below diversion 73000 62.42 68.22 0.000134 2.04 428.43 67.98 0.14 72857 856.00 60.00 68.15 North Main selow diversion 63.48 70.37 0.000173 2.75 579.67 75.95 0.16 1516.00 60.00 70.25 North Main 72857 noisrevib woled 2106.00 60.00 71.15 64.28 71.33 0.000243 3 47 648.91 79.30 0.19 below diversion 72857 North Main 3932.00 72.73 66.23 73.03 0.000373 4.75 2635.46 2922.88 0.25 North Main 72857 below diversion

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0.22

| River                    | Reach  | River Sta                             | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnl     | Flow Area          | Top Width         | Froude # Chl |
|--------------------------|--|---------------------------------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|--------------------|-------------------|--------------|
| North Main               | below diversion  | 72780                                 | (cfs)              | (ft)           | (ft)           | <u>(ft)</u>    | (ft)           | (ft/ft)    | (ft/s)       | (sq ft)            | (fl)              |              |
| TOTAL MEAN               | DOOM GETGING!  | 72700                                 | Bridge             |                |                |                | <u> </u>       |            |              |                    |                   |              |
| North Main               | below diversion  | 72766                                 | 856.00             | 60.00          | 68.12          | 62.56          | 68.19          | 0.000158   | 2.40         |                    |                   |              |
| North Main               | below diversion  | 72768                                 | 1516.00            | 60.00          | 70.21          | 63.66          | 70.35          | 0.000138   | 2.19<br>2.96 | 398.55             | 63.94             | 0.15         |
| North Main               | below diversion  | 72766                                 | 2106.00            | 60.00          | 71.09          | 64.49          | 71.29          |            | 3.63         | 566.58<br>775.71   | 204.41            | 0.17         |
| North Main               | below diversion  | 72768                                 | 3932.00            | 60.00          | 72.44          | 66.51          | 72.79          | 0.000465   | 5.18         | 2626.23            | 270.89            | 0.20         |
| 1000                     | A. 6. 14   | V                                     |                    |                |                |                |                |            | 0.10         | 2020.23            | 3740.03           | 0.27         |
| North Main               | below diversion  | 72680                                 | 856.00             | 60.00          | 58.11          | 62.55          | 68.18          | 0.000159   | 2.19         | 397.78             | 63.89             | 0.15         |
| North Main               | below diversion  | 72680                                 | 1516.00            | 60.00          | 70.19          | 63.66          | 70.33          | 0.000205   | 2.96         | 563.34             | 203.21            | 0.13         |
| North Main               | below diversion  | 72680                                 | 2106.00            | 60.00          | 71.07          | 64.49          | 71.27          | 0.000274   | 3.65         | 769.74             | 269.22            | 0.20         |
| North Main               | below diversion  | 72680                                 | 3932.00            | 60.00          | 72.34          | 66.51          | 72.74          | 0.000518   | 5.43         | 2266.45            | 3665.21           | 0.29         |
|                          | A POLICE AND A SECOND OF THE PROPERTY OF THE P |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| North Main               | below diversion  | 71500                                 | 856.00             | 60.00          | 67.90          | 62.56          | 67.99          | 0.000164   | 2.32         | 394.27             | 56.00             | 0.15         |
| North Main               | below diversion  | 71500                                 | 1516.00            | 60.00          | 69.93          | 63.66          | 70.08          | 0.000221   | 3.17         | 535.82             | 73.91             | 0.18         |
| North Main               | below diversion  | 71500                                 | 2106.00<br>3932.00 | 60.00          | 70.95          | 64.45          | 71.02          | 0.000127   | 2.58         | 3900.98            | 3772.18           | 0.14         |
|                          | · The bearings   | , 1000                                | 3532.00            | 60.00          | 72.44          | 56.44          | 72.46          | 0.000066   | 2.03         | 9717.25            | 4037.91           | 0.10         |
| North Main               | below diversion  | 70221                                 | 856.00             | 60.00          | 67.70          |                |                |            |              |                    |                   |              |
| North Main               | below diversion  | 70221                                 | 1516.00            | 60.00          | 67.70<br>69.82 | 62.43          | 67.78          | 0.000161   | 2.26         | 402.76             | 68,66             | 0.15         |
| North Main               | below diversion  | 70221                                 | 2106.00            | 60.00          | 70.87          | 63.49<br>64.26 | 69.86          | 0.000100   | 2.12         | 2480.08            | 1841.19           | 0.12         |
| North Main               | below diversion  | 70221                                 | 3932.00            | 60.00          | 72.36          | 66.21          | 70.89<br>72.38 | 0.000061   | 1.79         | 4780.52            | 3608.61           | 0.10         |
| 1, 9, 27                 | 1. 45. 7.44. 1   |                                       |                    |                | 12.33          | 50.21          | 12.38          | 0.000057   | 1.89         | 8234.33            | 3718.42           | 0.10         |
| North Main               | below diversion-   | 70158                                 | 856.00             | 60.00          | 67.70          | 62.25          | 67.76          | 0.000131   | 1.94         | 117.50             | *** **            |              |
| North Main               | below diversion  | 70158                                 | 1516,00            | 60,00          | 69.77          | 63.23          | 69.85          | 0.000131   | 2.38         | 1152.03            | 74.43             | 0.13         |
| North Main               | below diversion  | 70158                                 | 2106.00            | 60.00          | 70.82          | 63.97          | 70.88          | 0.000107   | 2.26         | 3285.29            | 681.35<br>3792.84 | 0.14         |
| North Main               | below diversion  | 70158                                 | 3932.00            | 60.00          | 72.34          | 65.85          | 72.37          | 0.000084   | 2.21         | 7061.08            | 4017.59           | 0.13         |
|                          | Mark Control   |                                       |                    |                |                |                |                |            |              | . 501.50           | 7017.38           | 0.12         |
| North Main               | below diversion  | 70144                                 | Bridge             |                |                |                |                |            |              |                    |                   |              |
| N                        | -  |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| North Main               | below diversion  | 70130                                 | 856.00             | 60.00          | 67.69          | 62.25          | 67.75          | 0.000132   | 1.94         | 446.74             | 74.38             | 0.13         |
| North Main<br>North Main | below diversion  | 70130                                 | 1516.00            | 60,00          | 69.74          | 63.23          | 69.82          | 0.000140   | 2.39         | 1131.02            | 670.98            | 0.14         |
| North Main               | below diversion  | 70130                                 | 2106.00            | 60.00          | 70.77          | 63.97          | 70.83          | 0.000113   | 2.32         | 3162.71            | 3787.39           | 0.13         |
| ACCES MAN                | below diversion  | 70130                                 | 3932.00            | 60.00          | 72.30          | 65.84          | 72.33          | 0.000087   | 2.24         | 6960,59            | 4009,19           | 0.12         |
| North Main               | below diversion  | 70044                                 | 856.00             |                | 67.00          |                |                |            |              |                    |                   |              |
| North Main               | below diversion  | 70044                                 | 1516.00            | 60.00          | 67.69          | 62.25          | 67,75          | 0.000132   | 1.94         | 446.60             | 74.37             | 0.13         |
| North Main               | below diversion  | 70044                                 | 2106.00            | 60.00<br>60.00 | 69.73          | 63.23          | 69,81          | 0.000141   | 2.40         | 1123.68            | 667.29            | 0.14         |
| North Main               | below diversion:   | 70044                                 | 3932.00            | 60.00          | 70.76          | 63.97          | 70,82          | 0.000115   | 2.34         | 3120,62            | 3785.51           | 0.13         |
| Harry State              | er er er er er er er er er er er er er   | <del> </del>                          | 0302.00            | 30.50          | 72.28          | 65.84          | 72,32          | 0.000088   | 2.26         | 6920.90            | 4005.87           | 0.12         |
| North Main               | below diversion  | 70000                                 | 856.00             | 60,00          | 67.69          | 62.17          | 67,74          | 0.000119   | 4 00         |                    |                   |              |
| North Main               | below diversion  | 70000                                 | 1516.00            | 60.00          | 69.72          | 63.13          | 69.80          | 0.000140   | 1.85         | 466.74             | 78.36             | 0.13         |
| North Main               | below diversion  | 70000                                 | 2106.00            | 60.00          | 70.74          | 63.84          | 70.81          | 0.000140   | 2.41         | 947.73             | 625.53            | 0.14         |
| North Main               | below diversion  | 70000                                 | 3932.00            | 60.00          | 72.27          | 65.66          | 72.31          | 0.000101   | 2.43         | 2644.47<br>6269.65 | 3505.75           | 0.14         |
|                          | Company of the stage   |                                       |                    |                |                |                |                | 5.555,51   | 2.73         | 0209.00            | 4000.47           | 0.13         |
| North Main               | below diversion  | 89000                                 | 856.00             | 60.00          | 67.58          | 62.03          | 67.63          | 0.000109   | 1.78         | 486.42             | 78.91             | 0.12         |
| North Main               | below diversion  | 69000                                 | 1516.00            | 60.00          | 69.58          | 62.94          | 69.67          | 0.000138   | 2.38         | 804.07             | 611.29            | 0.12         |
| North Main               | below diversion  | 69000                                 | 2106.00            | 60.00          | 70.60          | 63.62          | 70.68          | D.000130   | 2.49         | 2292.46            | 4385.26           | 0.14         |
| North Main               | below diversion  | 69000                                 | 3932.00            | 50.00          | 72.15          | 65.40          | 72.21          | 0.000111   | 2.55         | 5745.20            | 4780.62           | 0.13         |
|                          |  |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| North Main               | below diversion  | 68000                                 | 856.00             | 60.00          | 67.39          |                | 67.48          | 0.000212   | 2.34         | 368,98             | 65.45             | 0.17         |
| North Main               | below diversion  | 68000                                 | 1516.00            | 60.00          | 69.33          |                | 69.48          | 0.000263   | 3,14         | 503,05             | 73.17             | 0.19         |
| Vorth Main               | below diversion  | 68000                                 | 2106.00            | 60.00          | 70.28          |                | 70.48          | 0.000332   | 3.79         | 907.16             | 1374.21           | 0.22         |
|                          | below diversion  | 68000                                 | 3932.00            | 60.00          | 71.89          |                | 72.03          | 0.000280   | 3.88         | 3835.88            | 2365.54           | 0.21         |
| North Main               | below diversion  | 66518                                 | 856.00             | 20.00          | 57.00          |                |                |            |              |                    |                   |              |
| Vorth Main               |  | 66518                                 | 1516.00            | 60.00          | 67.09<br>68.94 | 62 45          | 67.17          | 0.000218   | 2.32         | 371.48             | 67.37             | 0.17         |
| Vorth Main               |  | 66518                                 | 2106.00            | 60.00          | 70.00          | 63.45          | 69.09          | 0.000272   | 3.11         | 504.01             | 75.22             | 0.20         |
| Vorth Main               | below diversion  | 86518                                 | 3932.00            | 50.00          | 71.73          |                | 70.09          | 0.000191   | 2.83         | 2494.32            | 2160.45           | 0.17         |
| - 1                      | side, ye   | · · · · · · · · · · · · · · · · · · · |                    | 23.00          | . 1.73         |                | 11.17          | 0.000105   | 2.37         | 7634.64            | 3648.48           | 0.13         |
| lorth Main               | below diversion  | 86456                                 | 856.00             | 60.00          | 67.08          | 62,41          | 67,16          | 0.000220   | 2.32         | 370.69             | 87.44             |              |
| Vorth Main               | below diversion  | 66456                                 | 1516.00            | 60.00          | 68.93          | 63.45          | 69.08          | 0.000220   | 3.11         | 502.89             | 67.32<br>75.16    | 0.17         |
| Vorth Main               | below diversion  | 66456                                 | 2106.00            | 60.00          | 70.00          | 64.23          | 70.09          | 0.000191   | 2.83         | 2492.54            | 2160.18           | 0.20         |
| forth Main               | below diversion  | 66458                                 | 3932.00            | 60.00          | 71.73          | 66.14          | 71.77          | 0.000105   | 2.37         | 7629.30            | 3647.40           | 0.17<br>0.13 |
| <u> </u>                 | 11 2 2 2   |                                       |                    |                |                |                |                |            |              |                    | 2277.70           | 0.13         |
| lorth Main               | below diversion  | 66442                                 | Bridge             |                |                |                |                |            |              |                    |                   |              |
|                          | 1  |                                       |                    |                |                |                |                |            |              |                    |                   |              |
| lorth Main               |  | 66428                                 | 856.00             | 60.00          | 67.05          |                | 67,14          | 0.000222   | 2.33         | 369.25             | 67.23             | 0.17         |
| lorth Main               | below diversion  | 66428                                 | 1516.00            | 60.00          | 68.82          |                | 68.97          | 0.000287   | 3.16         | 494.64             | 74.70             | 0.20         |
| lorth Main               |  | 66428                                 | 2106.00            | 60.00          | 69.91          |                | 70.02          | 0.000210   | 2.95         | 2313.51            | 2132.17           | 0.18         |
| FUEL WIND                | below diversion  | 86428                                 | 3932.00            | 60.00          | 71.68          |                | 71.72          | 0.000111   | 2.42         | 7448.11            | 3610.73           | 0.13         |
| lorth Main               | hairan diversion   | 66342                                 | 950.00             |                |                |                |                |            |              |                    |                   |              |
| orth Main                |  | 66342<br>66342                        | 856.00<br>1516.00  | 60.00          | 67.04          |                | 67.12          | 0.000225   | 2.34         | 368.06             | 67.15             | 0.17         |
| forth Main               |  | 66342                                 | 2106.00            | 60.00          | 68.80          |                | 58.95          | 0.000290   | 3.17         | 492.91             | 74.61             | 0.20         |
| lorth Main               |  | 66342                                 | 3932.00            | 60.00          | 69.84<br>71.61 |                | 69.98          | 0.000272   | 3.34         | 1546.33            | 1384.94           | 0.20         |
| TOT BY SHOWIN            | unit un prulit   |                                       | 3002.00            | 00.00          | / 1.01         |                | 71.69          | 0.000183   | 3.11         | 5369.38            | 2892.28           | 0.17         |
| iorth Main               | below diversion  | 65921,*                               | 856.00             | 60.00          | 56.93          |                | 67.02          | 0.000239   | 2.00         |                    |                   |              |
| lorth Main               |  | 65921.*                               | 1516.00            | 60.00          | 68.66          |                | 68.82          | 0.000239   | 2.38         | 361.01             | 66.71             | 0.18         |
|                          |  | 65921.*                               | 2108.00            | 60.00          | 69.70          | <del></del>    | 69.87          | 0.000308   | 3.23         | 493.90<br>1396.53  | 203.34<br>1360.34 | 0.21         |

| River                    | Plan- P 50% D<br>Reach   | River Sta        | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.  | E.G. Elev      | E.G. Slope  | Vel Chnl     | Flow Area                             | Top Width       | Froude # Chl        |
|--------------------------|--|------------------|--------------------|----------------|----------------|--|----------------|-------------|--------------|---------------------------------------|-----------------|---------------------|
|                          |  |                  | (cfs)              | (ft)           | (ft)           | (ft)   | (ff)           | (fVft)      | (ft/s)       | (sq ft)                               | (ft)            |                     |
| orth Main                | below diversion  | 65921.*          | 3932.00            | 60.00          | 71.52          |  | 71.61          | 0.000202    | 3.24         | 4962.61                               | 2827.78         | 0.18                |
| and the second second    | No. of the Contract of the Con | octan            | 959.00             | 00.00          | 20.00          |  |                | 0.000056    | 2.42         | 252.22                                | 66 30           |                     |
| eth Main<br>eth Main     | below diversion  | 65500<br>65500   | 856.00<br>1516.00  | 60.00          | 68.82<br>68.51 |  | 66.91<br>68.68 | 0.000256    | 2.43<br>3.28 | 353.33<br>526.75                      | 66.20<br>288.08 | 0.18                |
| orth Main                | below diversion  | 65500            | 2106.00            | 60.00          | 69.59          |  | 69.74          | 0.000327    | 3.40         | 1640.84                               | 1739.34         | 0.21                |
| orth Main                | below diversion  | 65500            | 3932.00            | 60.00          | 71.47          |  | 71.52          | 0.000293    | 2.79         | 5808.82                               | 2659.19         | 0.15                |
| es esperential           | Z. Z. Z. Z. Z. Z. Z. Z. Z. Z. Z. Z. Z. Z   |                  |                    | 30.00          | 71.41          |  |                | 2.300.01    | 2.73         | 2000.02                               |                 | V.14                |
| orth Main                | below diversion  | 85133.3*         | 856.00             | 60,00          | 66.68          |  | 66.79          | 0.000338    | 2.66         | 322.20                                | 64.53           | 0.21                |
| orth Main                | below diversion  | 65133.3*         | 1516.00            | 60.00          | 68.34          |  | 68.54          | 0.000418    | 3.56         | 435.47                                | 73.30           | 0.24                |
| orth Main                | below diversion  | 85133.3"         | 2106.00            | 60.00          | 69.31          |  | 69.60          | 0.000511    | 4.30         | 598.09                                | 947.20          | 0.27                |
| orth Main                | below diversion  | 65133,3*         | 3932.00            | 60.00          | 71.29          |  | 71,44          | 0.000320    | 3.96         | 3649.92                               | 2149.44         | 0.22                |
|                          |  |                  |                    |                |                |  |                |             |              |                                       |                 |                     |
| orth Main                | below diversion  | 64766.6*         | 856.00             | 60,00          |                |  | 88.87          | 0.000380    | 2.77         | 309.68                                | 62.89           | 0.2                 |
| orth Main                | below diversion  | 84766.6*         | 1516.00            | 60.00          |                |  | 68.39          | <del></del> | 3.70         | 417.11                                | 69.67           | 0.2                 |
| orth Main                | below diversion  | 64766.6*         | 2106.00            | 60.00          |                | ļ  | 69,41          |             | 4.51         | 483.21                                | 74.40           | 0.2                 |
| orth Main                | below diversion  | 84766.6*         | 3932.00            | 60,00          | 71.06          | ļ  | 71.29          | 0.000467    | 4.69         | 2653.52                               | 1531.93         | 0.2                 |
| orth Mein                | below diversion  | 84400            | 856.00             | 60.00          | 66.42          | 62.47  | 66.54          | 0.000351    | 2.71         | 316.04                                | 61.39           | 0.2                 |
| orth Main                | below diversion  | 64400            | 1516.00            | 60.00          | <del></del>    | 63.51  | 68.23          | 1           | 3.68         | 418.46                                |                 | 0.2                 |
| orth Main                | below diversion  | 64400            | 2106.00            | 60.00          | +              | 64,31  | 69.20          |             | 4.52         | 478.05                                | 70.48           | 0.29                |
| orth Main                | below diversion  | 64400            | 3932.00            | 60.00          |                | 66.25  | 71.09          |             | 5.48         | 2003.57                               |                 | 0.3                 |
| nik Carbia               | 1431 174   | all through      |                    |                |                |  |                |             |              |                                       |                 |                     |
| orth Main                | below diversion  | 62879            | 856.00             | 58.00          | 66.07          | 60.77  | 66.15          | 0.000198    | 2.18         | 461.53                                | 710.95          | 0.10                |
| orth Main                | below diversion  | 62879            | 1516.00            | 58.00          | 67.87          | 61.91  | 67.90          | 0.000099    | 1.85         | 2346.51                               | 3229.40         | 0.1                 |
| orth Main                | below diversion  | 62879            | 2106.00            | 58.00          |                | 62.75  | 68.86          |             | 1.79         | 3623.06                               |                 | 0.1                 |
| orth Main                | below diversion  | 62879            | 3932.00            | 58.00          | 70.73          | 64.80  | 70.75          | 0.000067    | 1.88         | 6795.70                               | 9041.74         | 0.1                 |
|                          |  | 1947 Carl 1941 C |                    |                |                |  |                |             |              |                                       |                 |                     |
| orth Main                | below diversion  | 62817            | 856.00             | 58,00          |                | 60.68  | 66.13          | +           | 1.38         | 1829.45                               |                 | 0.0                 |
| orth Main                | below diversion  | 62817            | 1516.00            | 58.00          |                | 61.79  | 67.89<br>68.85 | +           | 1.17         | 4134.84<br>5557.23                    | <del></del>     | 0.0                 |
| orth Main                | below diversion  | 62817<br>62817   | 2106.00<br>3932.00 | 58.00<br>58.00 |                |  | 70.74          | <del></del> | 1.21         | 5557.23<br>8563.85                    |                 | 0.0                 |
| orth Main                | below diversion  | 62617            | 3932.00            | 30,00          | 10.73          | 03.32  | 10.14          | 0.000035    | 1.44         | 0.000.00                              | Ø112.40         | 0,0                 |
| orth Main                | below diversion  | 62803            | Bridge             |                | +              | <del>                                     </del> | <b></b>        | 1           |              | † - · · · · ·                         | <u> </u>        |                     |
|                          | The state of the s |                  | 5,,,,,,,,,,        |                | <del> </del>   |  |                | <u> </u>    | <u> </u>     | <u> </u>                              |                 |                     |
| orth Main                | below diversion  | 62789            | 856.00             | 58.00          | 66.09          | 60.68  | 66.11          | 0.000063    | 1.35         | 1922.34                               | 3064.43         | 0.0                 |
| orth Main                | below diversion  | 62789            | 1516.00            | 58.00          | -              | 61.79  | 67.87          | +           | 1.13         | 4309.13                               |                 | 0.0                 |
| orth Main                | below diversion  | 62789            | 2106.00            | 58.00          |                |  | 68,84          | +           |              | 5781.04                               | +               | 0.0                 |
| orth Main                | below diversion  | 62789            | 3932.00            | 58.00          |                |  | 70.72          | 0.000033    | 1.39         | 8872.19                               | 9053.87         | 0.0                 |
| og turk (4)              |  |                  |                    |                |                |  |                |             |              |                                       |                 |                     |
| orth Main                | below diversion  | 82703            | 856.00             | 58.00          | +              |  | 66.10          |             | 1.29         | <del></del>                           |                 | 0.0                 |
| orth Main                | below diversion  | 82703            | 1516,00            | 58.00          |                |  | 67.8           |             |              |                                       |                 | 0.0                 |
| lorth Main               | below diversion  | 62703            | 2106.00            | 58.00          |                | 62.61  | 68.83          |             | 1.11         | 6119.63                               | <del></del>     | 0.0                 |
| iorth Main               | below diversion  | 62703            | 3932.00            | 58,00          | 70.70          | 65.23  | 70.7           | 0.000030    | 1.32         | 9334.89                               | 9034.33         | 0.0                 |
| 1411 y 1714 y 1          | 14500  |                  | <b></b>            |                |                |  |                |             |              | 4=4                                   |                 | ļ                   |
| orth Main                | below diversion  | 62600            | 856.00             | 58.00          |                |  | 66.09          |             | +            |                                       |                 | 0.0                 |
| Iorth Main               | below diversion  | 62600            | 1516.00            | 58.00<br>58,00 | +              |  | 67.80          |             | -            |                                       |                 | 0.0                 |
| Iorth Main<br>Iorth Main | below diversion  | 62600<br>62600   | 3932.00            | 58.00          |                | +  | 70.7           |             |              | +                                     | +               | 0.0                 |
| ICH UTI MUBITI           | below diversion  | 62000            | 3932.00            | 30.00          | 70.70          | 03.03  | 10.7           | 0.000013    | V.01         | 14133.08                              | 1 300.73        | <u>-</u>            |
| lorth Main               | below diversion  | 61620            | 856.00             | 58.00          | 66.07          | 60.72  | 56.0           | 7 0.000014  | 0.68         | 4455.45                               | 8964.22         | 0.0                 |
| lorti Main               | below diversion  | 61620            | 1516,00            | 58.00          |                |  | <del></del>    |             |              |                                       |                 |                     |
| lorth Main               | below diversion  | 61620            | 2106.00            | 58.00          |                | · · · · · · · · · · · · · · · · · · ·            |                |             | +            | · · · · · · · · · · · · · · · · · · · |                 |                     |
| lorth Main               | below diversion  | 61620            | 3932.00            | 58.00          |                | +  | 70.6           |             | <del></del>  |                                       |                 |                     |
|                          | 1634, 746, 757   | 100,4100         |                    |                |                |  | I              |             |              |                                       |                 |                     |
| torth Main               | below diversion  | 61584            | 856,00             |                |                | <del></del>                                      |                |             | +            | <del></del>                           |                 |                     |
| iorth Main               | below diversion  | 61584            | 1516.00            | <del>1</del>   |                |  |                |             | +            | +                                     |                 |                     |
| lorth Main               | below diversion  | 61584            | 2106.00            | <del></del>    |                |  |                |             | +            |                                       |                 | ·                   |
| iorth Main               | below diversion  | 61584            | 3932.00            | 58.00          | 70.6           | 64.36  | 70.6           | 9 0.000022  | 1.14         | 14022.2                               | 13049.93        | 0.0                 |
|                          |  | 122              | <u> </u>           | ļ              | <del></del>    | <b> </b>   | <del> </del>   | +           |              | +                                     | <del> </del>    |                     |
| Yorth Main               | below diversion  | 61570            | Bridge             |                |                | <del></del>                                      | <del> </del>   |             | <del> </del> | <del> </del>                          | <del> </del>    | <del> </del>        |
| f - 41 - 22              |  | 0.000            | 050.00             |                |                | 7 00.55  |                | 4 0.00044   | 2.00         | 446 50                                | 3 7351.08       | 0.                  |
| forth Main               | below diversion  | 61556            | 856.00             |                |                |  |                | <del></del> |              |                                       |                 |                     |
| Vorth Main<br>Vorth Main | below diversion  | 61556<br>61556   | 1516.00            | +              |                |  |                |             |              |                                       |                 |                     |
| lorth Main               | below diversion  | 61556            | 3932.00            |                |                |  | +              |             |              |                                       |                 |                     |
| -wu (Mail)               | PRIOR MEDICAL  | 12.200           |                    | 30.0           | 1 ,0,0         | . 04.30  |                | 2.30002     | 1            |                                       | 1               | † · · · · · · · · · |
| North Main               | below diversion  | 61443            | 856,00             | 58.0           | 0 66.0         | 0 60.56  | 66.0           | 0.00003     | 1.0          | 1 3496.5                              | 4 8113.59       | 0,                  |
| lorth Main               | below diversion  | 61443            | 1516.00            |                |                |  |                |             | <del></del>  |                                       |                 |                     |
| lorth Main               | below diversion  | 61443            | 2106.00            |                |                |  |                |             |              | +                                     |                 | +                   |
| lorth Main               | below diversion  | 61443            | 3932.00            |                | 0 70.6         | 5 64.73  | 70.6           | 6 0.00001   | 0,0          | 0 19751.7                             | 7 13043,92      | 0.                  |
|                          |  |                  |                    |                |                |  |                |             |              |                                       |                 |                     |
| North Main               | below diversion  | 60700            | 856,00             | 58.1           | 0 65.9         | 8 60.6   |                |             | <del></del>  |                                       |                 |                     |
| North Main               | below diversion  | 60700            | 1516.00            |                |                |  |                |             |              |                                       |                 | +                   |
| North Main               | below diversion  | 60700            | 2106.00            | +              |                |  |                |             |              | -+                                    |                 | +                   |
| North Main               | below diversion  | 60700            | 3932.00            | 58.1           | 0 70.6         | 5 65.3   | 7 70.6         | 0.00000     | 4 0.4        | 8 32523.8                             | 13042.42        | 2 0                 |
|                          |  |                  | 1                  |                |                | <u> </u>   |                |             |              |                                       | 2572            | <del> </del>        |
| Vorth Main               | below diversion  | 58982            | 856.00             |                |                |  |                |             |              | <del>+</del>                          |                 | +                   |
| North Main               | below diversion  | 58982            | 1516.00            | 58.0           |                |  | _              | <del></del> |              |                                       |                 |                     |

HEC-RAS Plan- P 50% D (Continued) Q Total Min Ch El W.S. Elev E.G. Elev E.G. Slope River Sta Crit W.S. Vel Chnl Flow Area | Top Width | Froude # Chi (cfs) (ft) (ft) (ft) (ft/ft) (ft/s) (sq ft) (ft) 58982 North Main low diversion 3932.00 58.00 70.6 64.38 70.64 0.000012 0.83 22298 63 11628 11 0.04 helow diversion 856.00 North Main 58909 58.00 65.8 60.58 65.89 0.000184 384.12 2.27 2911 35 0.16 helow diversion North Main SAGOG 1516.00 58.00 67.**61** 61.71 67.72 0.000202 2.79 1383.49 5669.59 0.17 North Main w dive 58909 2106.00 58.00 68.68 62.55 68.73 0.000110 2.23 4379.21 7552.92 0.13 helow diversion North Main 58909 3932.00 58.00 70.63 64.54 70.64 0.000035 1.44 13965.76 10168 72 0.08 below diversion North Main 58887 Bridge North Main below diversion 58865 856.00 58.00 65.79 0.000185 60.58 65.87 2.27 383.14 2897.53 0.16 North Main below diversion 58865 1516.00 58.00 67.49 81.71 67.61 0.000226 1165.95 2.93 5457.01 0.18 North Main below diversion 58865 2106.00 58.00 68.62 62.54 68.67 4165.09 0.000118 2.31 7449.57 0.13 North Main below diversion 58865 3932.00 58.00 70.62 64.54 70.62 0.000036 1.45 13863.82 101B6.23 0.08 North Main below diversion 58787 856 00 58.00 65.78 60.58 65.86 0.000187 2.28 382.34 2886.36 0.16 North Main below diversion 58787 1516 00 58.00 67.49 61.71 67.57 0.000171 2.55 1883.48 5464.02 0.16 North Main below diversion 58787 2106.00 58.00 68.62 62.5 0.000078 5635.84 1.88 7703.40 0.11 North Main below diversion 58787 3932.00 58.00 70.61 70.61 0.000023 1.16 16988.46 10113.69 0.06 North Main below diversion 57900 856.00 58.00 65.70 60.46 65.73 0.000100 1.67 1573.29 3278.51 0.12 North Main below diversion 57900 1516 00 58 00 67 49 61.52 67.50 0.000033 1.12 5031.22 4171.30 0.07 North Main below diversion 57900 2106.00 58.00 68.60 62 31 68 60 0.000021 6019.19 0.98 8642.D2 0.06 North Main below diversion 57900 3932.00 58.00 70.60 64.25 70.61 0.000015 0.93 19666.96 9598.92 0.05 North Main 55821 856.00 below diversion 58.00 65.42 60.56 65.48 0.000148 2.10 1235,80 2924.45 0.14 North Main 55821 1516.00 below diversion 58.00 67.44 61.64 67 44 0.000022 0.97 8004.15 7494.69 0.06 North Main 55821 58.00 below diversion 2106.00 68.58 62.43 68.58 0.000010 0.71 15415.11 9395.01 0.04 North Main 55821 below diversion 3932.00 58.00 70.60 64.37 70.60 0.000005 0.57 29264.82 10089.58 0.03 North Main 55758 856.00 58.00 65.42 below diversion 60.50 65.48 0.000142 2.06 1266 01 3063 AR 0.14 North Main 55758 58.00 below diversion 1516.00 67.43 61.58 67.44 0.000018 0.88 9159.16 8081.28 0.05 North Mair below diversion 55758 2106.00 58.00 68.58 62.36 68.58 0.000008 0.61 16721 69 9367 59 0.03 North Main below diversion 55758 3932.00 58.00 70.59 64.29 70.59 0.000004 0.53 30447.80 10017.21 0.03 North Main below diversion 55744 Bridge North Main below diversion 55730 856.00 58.00 65.38 60,50 65.45 0.000165 2 21 850 65 2683 99 0.15 North Mair below diversion 55730 1518.00 58.00 67.41 61.58 67.42 0.000044 1.36 4973.12 6603.06 0.08 North Main below diversion 55730 2106.00 58.00 68.55 62.36 68.56 0.000020 1.00 10661.47 8821.93 0.06 North Mair 58.00 below diversion 55730 3932.00 70.57 64.29 70.57 0.000010 0.79 23569.98 10614.05 0.04 North Main below diversion 55844 856.00 58.00 65.38 60.50 65.44 0.000156 2.16 1027.17 2261.87 0.15 North Mair below diversion 55644 1516.00 58.00 67.41 61.58 67.41 1.14 6153.21 0.000031 6062.71 0.07 North Ma w diversion 2106.00 58.00 68.54 62.36 12378.35 68.55 0.000014 0.85 8226.04 0.05 North Main 64.29 below diversion 55644 3932.00 58.00 70.57 70.57 0.000008 0.70 26310.33 9969.41 0.04 helow diversion 54900 North Main 856 00 58.00 65.27 60.30 65.33 0.000145 2.07 1080.68 2732.27 0.14 North Main 54900 1516.00 58.00 67.39 61.31 67.39 0.000015 0.79 9425.06 5152.36 0.05 North Main below diversion 54900 2106.00 58.00 68.53 62.06 68.54 0.61 15880.58 6376.07 0.03 North Main below diversion 54900 3932.00 58.00 70.56 63.93 70.56 0.000005 0.57 28065.75 7943.42 0.03 North Main below diversion 53165 856.00 58.00 65.07 60.37 65.10 0.000107 1.62 1480.22 1207.34 0.12 North Main below diversion 53165 1516 00 58.00 67 35 61.41 67.36 0.000026 1.00 5907.89 2653.95 0.06 North Main below diversion 53165 2106.00 58.00 68.52 62.15 68 52 0.000018 0.90 9408.11 3396.91 0.05 North Main below diversion 53165 3932 00 58.00 70.55 64.84 70.56 0.000013 17688.26 0.89 6222.76 0.05 North Main 53128 65.00 below diversion 856.00 58.00 60.30 65.08 0.000180 2.24 410.05 749.97 0.16 North Main 1516.00 58.00 67.33 below diversion 53128 61.29 67.35 0.000060 1 59 3655 95 2430.85 0.10 North Main below diversion 53128 2106,00 58.00 68.51 62.03 68.52 0.000034 1.30 7202.27 3507 45 0.07 North Main below diversion 53128 3932.00 58.00 70.55 63,81 70.55 0.000019 1.12 15764.97 6373.63 0.06 North Main 53114 below diversion Bridge North Main 53100 856.00 58.00 below diversion 64.98 60,30 65.08 0.000182 405.69 2.24 87.12 0.16 North Main 1516.00 58.00 61.29 below diversion 53100 67.31 67.33 0.000059 1.5B 3946.83 2899.57 0.09 53100 North Main 2106.00 58.00 68.49 68.50 below diversion 62.03 0.000030 8245.34 1.22 4202.27 0.07 North Main elow diversion 53100 3932.00 58.00 70.53 63.81 70.53 18182.89 0.000016 1.00 6486.50 0.05 North Main below diversion 52987 856.00 58.00 64.96 60.30 65.04 0.000184 2.25 403.97 86.76 0.16 58.00 North Main below diversion 52987 1518.00 67.30 61.29 67.32 0.000060 1.59 3914.42 2884.17 0.10 North Mair below diversion 52987 2106.00 58.00 68.48 62.03 68.49 0.000030 8200.20 4195.05 1.23 0.07 North Main below diversion 52987 3932.00 58.00 70.52 63.81 70.53 0.000016 18149.02 6471.78 1.00 0.05 North Main 52500 856.00 58.00 64.87 below diversion 60.26 64.95 0.000194 2.30 385.72 70.37 0.16 North Mair below diversion 52500 1516.00 58.00 67.28 61.25 67.29 0.000046 1,40 4933.91 3263.14 0.08 North Main 2106.00 58.00 68.47 61.99 below diversion 52500 68.47 0.000023 1.07 9472.01 4275.77 0.06 North Main 3932.00 58.00 70.52 70.52 below diversion 52500 63.80 0.000013 0.90 19532.41 6479.62 0.05 North Main elow diversion 50599 856.00 56.00 64.58 58.69 64.65 0.000135 2.08 423.15 67.66 0.14 HFC-RAS Plan: P 50% D (Continued)
Raken River Sta | Q Total W.S. Elev Min Ch El Crit W.S. E.G. Elev E.G. Slope Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft) (ft/ft) (fVs) (sq ft) (ft) (ft) (ft) 0.000156 0.15 North Main 1516.00 56.00 67.03 59.82 67.14 2.72 low diversion 601.59 North Main 56.00 below diversion 50599 2106.00 68.20 60,66 68.36 0.000195 950.12 1055.76 0.1B 3.29 North Main w dive 50599 3932.00 56.00 70.43 62.68 70.47 0.000072 2.27 9471.42 7517.71 0.11 North Main 50550 856.00 56.00 64.5B 58.52 64.64 0.000129 1.92 445.97 69.20 0.13 elow diversion North Main 67.13 0.000142 0.14 50550 1518.00 56.00 67.04 59.60 2.48 628.80 137.73 below diversion 0.15 2106.00 56.00 68.25 60.43 68.34 0.000142 2.70 2094.50 2957.03 North Main low diversion North Main 50550 70.44 62.43 70.46 0.000041 11529.51 0.08 3932.00 56.00 1.65 8505.52 low diversion elow diversion 50536 North Main Bridge 856.00 56.00 64.55 58.51 34.61 1.93 443.75 69.07 North Main 50522 0.000132 0.13 below diversion North Main 50522 1516.00 56.00 66.95 59.60 57.04 0.000146 2.50 620.73 78.59 0.15 w diversion North Main elow diversion 50522 2106.00 56.00 68.19 60.43 68.30 0.000148 2.74 1944.35 2695.73 0.15 70.44 50522 56.00 70.43 0.000042 1.66 11437.58 8499.47 0.08 3932.00 62.43 North Main w dive 56.00 64,54 58.52 64,60 0.000132 1.93 443.01 69.03 0.13 North Main 50423 856.00 below diversion North Main D.000147 below diversion 50423 1516.00 66.94 59.61 67.03 2.51 619.80 78.54 0.15 56.00 56.00 68.18 60.43 68.28 0.000149 2.75 1909.11 2628.01 0.15 North Main below diversion 50423 2106.00 North Main 70.42 11399.78 8496.98 0.08 low diversion 50423 3932.00 56.00 62.43 70.43 0.000042 1.67 58.54 1.95 North Main 49400 856.00 56.00 64.38 64.44 439.94 71.12 0.14 below diversion North Main below diversion 49400 1516.00 56.00 66.78 59.63 66.87 0.000150 2.49 623.08 81.82 0.15 North Main 49400 2106.00 56.00 68.10 60.43 0.000083 2.04 4558.72 4524.50 0.11 below diversion North Main 3932.00 56.00 70.40 62.43 70.41 0.000019 1.11 16913.22 8193.62 0.06 elow diversion 49400 North Main 56.00 58.67 0.14 48450 856.00 64.23 64.30 0.000151 2,13 412.41 69.36 below diversion 4244.10 North Main 48450 1516.00 56.00 66.73 59.80 66.76 0.000066 1.73 4480.35 0.10 below diversion 68.10 0.000017 0.97 11189.09 5439.02 0.05 below diversion 48450 2106.00 56.00 60.62 68.10 North Main 0.000007 0.03 North Main below diversion 48450 56.00 70.39 62.60 70.39 0.69 25397.38 8648.12 North Main reach 1 233824 2496,00 53.37 64.02 57.06 64.15 0.000302 2.94 850.36 102.25 0.18 North Main 233824 3976.00 53.37 66.45 58.33 66.64 0.000343 3.50 1423.00 1034.53 0.20 5665.00 53.37 67.91 59.54 68.04 0.000282 3.36 3664.60 2055 6B 0.18 North Main reach 1 233824 North Main reach 1 233824 10632.00 53.37 70.32 62.43 70.37 0.000165 2.49 9203.24 2545.57 0.14 232833 2496.00 53.37 63.76 56.74 63.87 0.000246 2.66 936.75 112.49 0.16 North Main reach 1 North Main 53.37 66.19 57.92 66.33 0.000259 3.08 1347.86 0.17 232833 3976.00 1897.01 reach 1 67.74 59.04 67.82 0.000163 2530.20 0.14 North Main 232833 5665,00 53.37 2.61 5168.63 North Main 232833 10632.00 53.37 70.22 61.71 70.25 0.000088 2.12 11977.04 2972.63 0.10 reach 1 North Main reach 1 232775 2496.00 53.37 63.75 56.74 63.86 0.000247 2.67 935.09 112.43 0.16 3976.00 53.37 66.17 57.91 66.31 0.000261 3.09 1874.B9 1329.67 0.17 North Main 232775 reach 1 67.72 North Main 5665.00 53.37 59.04 67.80 0.000186 5115.03 2524.06 0.14 reach 1 232775 2.63 70.21 61.71 70.24 0.000088 2.12 11943.89 2971.63 0.10 North Main reach 1 232775 10632.00 53.37 232000 2496.00 53.37 63.55 56.62 63.67 0.000252 2.71 921.87 109.16 0.16 North Main reach 1 3976.00 53.37 66.11 57.75 66 15 0.000125 1.86 5260 32 3110.72 0.12 North Main reach 1 232000. 5665.00 North Main reach 1 232000 53.37 67.70 58.88 67.71 0.000050 1,29 11107.35 3995.50 0.07 North Main reach 1 232000 10632.00 53.37 70.18 61.54 70.19 0.000027 1.08 21447.19 4324.71 0.06 230198 2496 00 52.60 63 16 55 77 63 25 0.000203 2 48 1008 31 116.57 0.15 North Main reach 1 North Main reach 1 230198 3976.00 52 60 65 77 56 87 65.87 0.000185 2.69 2825.74 3183.57 0.15 North Main 230198 5665.00 52.60 67.61 57.95 67.63 0.000046 1.48 12737.27 6269.98 0.07 reach 1 230198 10632.00 52.60 70.15 60.54 70.15 0.000017 0.93 28671.48 6300.00 0.05 North Main reach 1 55.77 1005.85 0.15 230130 2496.00 52 60 63 14 63 23 0.000205 2.48 116.48 North Main reach 1 North Main reach 1 230130 3976 00 52.60 65.75 56.87 65.85 0.000188 2.71 2758.53 3124.07 0.15 0.07 reach 1 230130 5665.00 52 60 67 61 57 95 67.62 0.00004 1.48 12702.97 6269 93 230130 10632.00 52.60 70.14 60.54 70.15 0.000017 0.93 28655.09 6300.00 0.05 North Main 55.85 0.000223 113.19 North Main reach 1 230000 2496 00 52 60 63.10 63.20 2.58 968.66 0.16 North Main reach 1 230000 3976.00 52.60 65.72 56,98 65,82 0.000236 2.67 2650.90 2626.90 0.16 58.09 0.08 North Main reach 1 230000 5665 00 52.60 67.60 67.61 0.000054 1.42 12104.52 6138.93 North Main 0.05 reach t 230000 10632.00 52.60 70.14 60.75 70.14 0.000019 0.94 27750.30 6184.29 0.14 55,62 0.000193 1042.65 North Main reach 1 228819 2496.00 52.61 62.87 62.95 2.39 122.76 reach 1 1412.87 0.16 North Main 228819 3976.00 52.61 65.42 56.68 65.55 0.000221 2.90 480.33 0.12 reach 1 228819 5665.00 52.61 67.46 57.71 67.52 0.000121 2.33 6532.81 5492.05 North Mair North Main reach 1 228819 10632.00 52.61 70.10 60.22 70.11 0.000037 1.26 21156.27 5624.21 0.07 0.18 858.02 106.20 62.66 0.000307 2.91 North Main each 1 227602 2496.00 52.61 62.53 56.00 1134.71 116,39 57.18 0.20 North Mair reach 1 227602 3976 00 52.61 65.02 65.21 0.000349 3.50 4083.41 4414.10 0.18 0.000309 North Main reach 1 227602 5665.00 52.61 67.14 58.34 67.27 3.15 61.05 21770.26 6262.87 0.07 North Mair each 1 227602 10632.00 52.61 70.05 70.06 0.000040 1.18 106.58 0,19 55.72 843.95 North Mair reach 1 226000 2496.00 52.41 62.02 62.15 0.000326 2.96 1112.77 116.00 0.20 North Main 226000 3976.00 52.41 64.43 56.88 64,63 0.000372 3.57 reach 1 North Main 0.000440 1344.21 123.53 0.23 reach 1 226000 5665.00 52.41 66.36 58.00 66.64 4.21

HEC-RAS Plans P 50% D (Continued)

| River                                 | Reach  | River Sta                     | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.                      | E.G. Elev      | E.G. Slope | Vel Chni | Flow Area         | Top Width        | Froude # Chi |
|---------------------------------------|--|-------------------------------|--------------------|----------------|----------------|--------------------------------|----------------|------------|----------|-------------------|------------------|--------------|
| March Main                            |  |                               | (cfs)              | (ft)           | (ft)           | (ft)                           | (ft)           | (fi/fi)    | (ft/s)   | (sq ft)           | (ft) · · ·       | 100          |
| North Main                            | reach 1                                      | 228000.                       | 10632.00           | 52.41          | 69,68          | 60.71                          | 59.88          | 0.000472   | 4.37     | 4918.19           | 2085.24          | 0.23         |
| North Main                            | reach 1                                      | 224978                        | 2496.00            | 52.44          | 64.70          | 47.44                          |                |            |          |                   |                  |              |
| North Main                            | reach 1                                      | 224978                        | 3976.00            | 52.41          | 61.73          | 55.44                          | 61.84          | 0.000276   | 2.70     | 923.27            | 118.64           | 0.17         |
| North Main                            | reach 1                                      | 224978                        | 5665.00            | 52.41<br>52.41 | 64.11<br>65.98 | 56.50                          | 64.27          | 0.000312   | 3.27     | 1217.68           | 128.62           |              |
| North Main                            | reach 1                                      | 224978                        | 10632.00           | 52.41          | 68.95          | 57. <b>54</b><br>60. <b>05</b> | 66.21          | 0.000370   | 3.86     | 1478.38           | 185.11           | 0.21         |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | OF PERSON WILLIAM                            | THE RULE IN                   | 10052.00           | 32.41          | 00.93          | 50.03                          | 59.34          | 0.000546   | 5.21     | 2999.30           | 1245.66          | 0.26         |
| North Main                            | reach 1                                      | 224934                        | 2496.00            | 52.41          | 61.71          | 55.44                          | 61.83          | 0.000277   | 2.74     | 201.74            |                  |              |
| North Main                            | reach 1                                      |                               | 3976.00            | 52.41          | 64.09          | 56.50                          | 64.26          | 0.000217   | 2.71     | 921.71            | 118.58           | 0.17         |
| North Main                            | reach 1                                      | 224934                        | 5665.00            | 52.41          | 65.97          | 57.54                          | 66.20          | 0.000313   | 3.27     | 1215.73           | 128.56           | 0.19         |
| North Main                            | reach 1                                      | 224934                        | 10632.00           | 52.41          | 68.92          | 60.05                          | 69.32          | 0.000554   | 5.24     | 1475.08           | 184.35           | 0.21         |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |  | whole with the second         | 1                  |                |                | 30.00                          | 05.02          | 0.000354   | 5.24     | 2961,38           | 1242.36          | 0.26         |
| North Main                            | reach 1                                      | 223155                        | 2496.00            | 52.35          | 61,10          | 55.54                          | 61.24          | 0.000390   | 3.07     | 813.26            | 112.42           |              |
| North Main                            | reach 1                                      | 223155                        | 3976.00            | 52.35          | 63.35          | 56.64                          | 63.56          | 0.000491   | 3.68     | 1083.76           | 112.43           | 0.20         |
| North Main                            | reach 1                                      |                               | 5665.00            | 52.35          | 65.17          | 57.72                          | 65.40          | 0.000543   | 3.95     | 1682.52           | 212.37           | 0.23         |
| North Main                            | reach t                                      | 223155                        | 10632.00           | 52.35          | 67.88          | 60.28                          | 68.17          | 0.000693   | 4.72     | 3065.75           | 407.46<br>631.38 | 0.24         |
|                                       | with the same                                | 1000                          |                    |                |                |                                | 32111          | 0.000000   | 7.72     | 3003.73           | 031.36           | 0.26         |
| North Main                            | reach 1                                      | 222000.                       | 2496.00            | 52.03          | 60.61          | 55.28                          | 60.77          | 0.000434   | 3.20     | 779.50            | 109.24           | 0.24         |
| North Main                            | reach 1                                      | 222000.                       | 3976.00            | 52.03          | 62.76          | 56.39                          | 62.99          | 0.000495   | 3.88     | 1041.66           | 309.40           | 0.21         |
| North Main                            | reach 1                                      | 222000.                       | 5665.00            | 52.03          | 64.52          | 57.48                          | 64.74          | 0.000597   | 4.01     | 2035.74           | 850.55           | 0.25         |
| North Main                            | reach t                                      | 222000.                       | 10632.00           | 52.03          | 67.42          | 60.08                          | 67.54          | 0.000386   | 3.47     | 5303.83           | 1342.99          | 0.21         |
| 1 + 4.7                               | Mary 1                                       | And the state of the state of | 1                  |                |                |                                | 3.,,           |            | 9.47     | 5555.05           | 15-12.99         | 0.21         |
| North Main                            | reach 1                                      | 220735                        | 2496.00            | 51.94          | 59.96          | 55.17                          | 60.15          | 0.000555   | 3.47     | 719.12            | 107.70           | 0.24         |
| North Main                            | reach 1                                      | 220735                        | 3976.00            | 51.94          | 62.02          | 56.28                          | 62.29          | 0.000625   | 4,18     | 950.21            | 116.98           | 0.24         |
| North Main                            | reach 1                                      | 220735                        | 5665.00            | 51.94          | 63.47          | 57.39                          | 63.86          | 0.000781   | 5.04     | 1124.63           | 123.54           | 0.28         |
| North Main                            | reach 1                                      | 220735                        | 10632.00           | 51.94          | 65.83          | 59.99                          | 56.62          | 0.001492   | 7.23     | 1822.78           | 985.52           | 0.41         |
| 1 121,21                              | a company                                    | eldig begger is               |                    |                |                |                                |                |            |          |                   | 355,52           |              |
| North Main                            | reach 1                                      | 220633                        | 2496.00            | 51.94          | 59.90          | 55.17                          | 60.09          | 0.000570   | 3.50     | 712.53            | 107.42           | 0.24         |
| North Main                            | reach 1                                      | 220633                        | 3976.00            | 51.94          | 61.95          | 56.28                          | 62.22          | 0.000640   | 4.22     | 942.06            | 116.67           | 0.26         |
| North Main                            | reach 1                                      | 220833                        | 5685.00            | 51.94          | 63.38          | 57.39                          | 63.78          | 0.000803   | 5.09     | 1113.60           | 123.13           | 0.30         |
| North Main                            | reach 1                                      | 220633                        | 10632.00           | 51.94          | 65.60          | 60.00                          | 66.47          | 0.001444   | 7.52     | 1608.73           | 782.83           | 0.41         |
|                                       | 1 1788                                       | . 19 P 2 1 1 1                |                    |                |                |                                |                |            |          |                   |                  |              |
| North Main                            | reach 1                                      | 220295                        | 2496.00            | 51.84          | 59.74          | 54.86                          | 59.90          | 0.000475   | 3.24     | 770.30            | 113.87           | 0.22         |
| North Main                            | reach 1                                      | 220295                        | 3976.00            | 51.84          | 61.77          | 55.91                          | 62.01          | 0.000541   | 3.94     | 1010.02           | 122.13           | 0.24         |
| North Main                            | reach 1                                      | 220295                        | 5665.00            | 51.84          | 63.18          | 56.93                          | 63.51          | 0.000691   | 4.79     | 1183.00           | 127.70           | 0.28         |
| North Main                            | reach 1                                      | 220295                        | 10632.00           | 51.84          | 65.47          | 59.41                          | 65.94          | 0.001031   | 5.94     | 3060.78           | 1690.40          | 0.34         |
|                                       | 1 April 1-11-1                               |                               |                    |                |                |                                |                |            |          |                   |                  |              |
| North Main                            | reach 1                                      | 219330                        | 2496.00            | 51. <b>58</b>  | 59.43          | 54.18                          | 59.53          | 0.000288   | 2.56     | 975.65            | 142.45           | 0.17         |
| North Main                            | reach 1                                      | 219330                        | 3976.00            | 51.58          | 61.43          | 55.06                          | 61.58          | 0.000330   | 3.13     | 1269.02           | 150.70           | 0.19         |
| North Main                            | reach 1                                      | 219330                        | 5685.00            | 51.58          | 62.72          | 55.94                          | 62.95          | 0.000435   | 3.86     | 1466.83           | 156.02           | 0.22         |
| North Main                            | reach 1                                      | 219330                        | 10632.00           | 51.58          | 64.51          | 58.05                          | 65.03          | 0.000845   | 5.86     | 2365.04           | 1280.41          | 0.32         |
|                                       | - 126 A 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                               |                    |                |                |                                |                |            |          |                   |                  |              |
| North Main                            | reach 1                                      | 218000.                       | 2496.00            | 51.24          | 59.08          | 53.65                          | 59.17          | 0.000256   | 2.45     | 1019.47           | 145.12           | 0.16         |
| North Main                            | reach 1                                      | 218000                        | 3976.00            | 51.24          | 61.02          | 54.51                          | 61.16          | 0.000304   | 3.04     | 1308.17           | 152.54           | 0.18         |
| North Main                            | reach 1                                      | 218000                        | 5665.00            | 51.24          | 62.19          | 55.36                          | 62.40          | 0.000399   | 3.72     | 1858.39           | 1142.68          | 0.21         |
| North Main                            | reach 1                                      | 218000.                       | 10632.00           | 51.24          | 63.91          | 57.42                          | 64.14          | 0.000479   | 4.43     | 4788.04           | 1977.75          | 0.24         |
|                                       |  |                               |                    |                |                |                                |                |            |          |                   |                  |              |
| North Main                            |  | 216808                        | 2496.00            | 51.24          | 58.60          | 54.06                          | 58,75          | 0.000489   | 3.15     | 792.88            | 126.38           | 0.22         |
| North Main                            | reach 1                                      | 216808                        | 3976.00            | 51.24          | 60.44          | 55.04                          | 60.67          | 0.000562   | 3.83     | 1077.89           | 469.53           | 0.24         |
| North Main<br>North Main              | reach 1                                      | 216806                        | 5665.00            | 51.24          | 61.68          | 56.01                          | 61.87          | 0.000494   | 3.86     | 2888.80           | 2106.05          | 0.23         |
| MOS DI MIGHT                          | IDEGI I                                      | 216808                        | 10632.00           | 51.24          | 63.57          | 58.32                          | 63.66          | 0.000336   | 3.35     | 7618.85           | 2959.54          | 0.19         |
| North Main                            | reach 1                                      | 218752                        | 2409.00            |                | 50.57          | T4 00                          | 50.70          |            |          |                   |                  |              |
| North Main                            |  |                               | 2498.00<br>3976.00 | 51.24          | 58.57          | 54.06                          | 58.72          | 0.000498   | 3.16     | 789.10            | 126.23           | 0.22         |
| North Main                            | reach 1                                      | 216752                        | 5665.00            | 51.24<br>51.24 | 60.41          | 55.04<br>56.01                 | 60.64          | 0.000589   | 3.85     | 1064.58           | 439.60           | 0.25         |
| North Main                            | reach 1                                      | 216752                        | 10632.00           | 51.24          | 63.55          | 58.32                          | 61.84<br>63.64 | 0.000514   | 3.93     | 2798.48           | 2092.45          | 0.24         |
|                                       | n de apro e e                                | 1. 0. 7                       |                    | V1.24          | 33.33          | 30.32                          | 03.04          | 0.000342   | 3.38     | 7554.58           | 2952.00          | 0.20         |
| North Main                            | reach 1                                      | 216000                        | 2496.00            | 51.25          | 58.07          | 54.11                          | 58.28          | 0.000704   | 3.68     | 677 40            | 110.75           |              |
| North Makr                            | reach 1                                      | 216000.                       | 3976.00            | 51.25          | 59.83          | 55,12                          | 60.13          | 0.000794   | 4.47     | 677.42<br>1007.52 | 110.75<br>515.38 | 0.26         |
| North Main                            | reach 1                                      | 216000.                       | 5665.00            | 51.25          | 61.27          | 56.12                          | 61.45          | 0.000794   | 3.92     | 3103.70           | 1901.59          | 0.29         |
| North Main                            | reach 1                                      | 216000                        | 10632.00           | 51.25          | 63.31          | 58.57                          | 63.37          | 0.000354   | 2.98     | 7419.13           | 2404.54          |              |
|                                       | 1 14 15 1                                    |                               | 1                  |                |                |                                | 55.57          | 5.500.004  | 2.30     | .715.13           | 2404.04          | 0,19         |
| North Main                            | reach:1                                      | 214269                        | 2496.00            | 51.25          | 57.10          | 53.42                          | 57.23          | 0.000505   | 2.91     | 857.74            | 158.12           | 0.22         |
| North Main                            | reach 1                                      | 214269                        | 3976.00            | 51.25          | 58.78          | 54.19                          | 58.97          | 0.000545   | 3.52     | 1128.03           | 158.12           | 0.22         |
| North Main                            | reach f                                      | 214289                        | 5665.00            | 51.25          | 60.30          | 54.96                          | 60.53          | 0.000537   | 3.91     | 1922.61           | 1099.61          | 0.24<br>0.24 |
| North Main                            | reach 1                                      | 214289                        | 10632.00           | 51.25          | 62.55          | 56.66                          | 62.72          | 0.000435   | 4.01     | 4803.29           | 1401.14          | 0.22         |
|                                       |  |                               |                    |                |                |                                |                |            |          | .000,20           | .401.14          | V.22         |
| North Main                            | reach 1                                      | 212822                        | 2496.00            | 51.25          | 54.59          | 53.92                          | 55.39          | 0.006313   | 7.18     | 347.65            | 110.22           | 0.71         |
| North Main                            | reach 1                                      | 212822                        | 3976.00            | 51.25          | 56.57          | 54.86                          | 57.32          | 0.003331   | 6.93     | 573.40            | 117.72           | 0.55         |
| North Main                            | reach f.                                     | 212822                        | 5665.00            | 51.25          | 58.10          | 55.82                          | 58.97          | 0.002866   | 7.48     | 757.74            | 123.52           | 0.53         |
| North Main                            | reach 1                                      | 212822                        | 10632.00           | 51.25          | 60.22          | 58.08                          | 61.42          | 0.003196   | 9.24     | 1643.17           | 672.49           |              |
|                                       |  |                               |                    | -              |                |                                |                |            | 5.24     | .570,11           | 372.48           | 0.56         |
| North Main                            | reach t                                      | 212818                        | Inline Weir        |                |                |                                |                |            |          |                   |                  |              |
|                                       | 11.00  |                               |                    |                |                |                                |                |            |          |                   |                  |              |
| North Main                            | reach 1                                      | 212769                        | 2496.00            | 44.29          | 54.58          | 47.61                          | 54.69          | 0.000233   | 2.61     | 956.92            | 113.54           | 0.16         |
| North Main                            | reach 1                                      | 212769                        | 3976.00            | 44.29          | 56.56          | 48.71                          | 56.74          | 0.000313   | 3.34     | 1189.24           | 120.91           | 0.19         |
| North Main                            | reach 1                                      | 212769                        | 5665.00            | 44.29          | 58.09          | 49.79                          | 58.29          | 0.000340   | 3.72     | 2080.80           | 550.50           |              |
| North Main                            | reach 1                                      | 212759                        | 10632.00           | 44.29          | 60.22          | 52.37                          | 60.50          |            | 4.85     | 3440.31           | 706.32           | 0.24         |
|                                       |  |                               |                    |                |                |                                |                |            | 7.00     | 2.10.01           | . 20.02          | 0.24         |

| River                    | Reach               | (Continue<br>River Sta | Q Total             | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope           | Vel Chnl     | Flow Area           | Top Width          | Froude # Chi  |
|--------------------------|---------------------|------------------------|---------------------|----------------|----------------|----------------|----------------|----------------------|--------------|---------------------|--------------------|---------------|
|                          |                     | . Bat                  | (cfs)               | (m)            | (ft)           | (ft)           | (ft)           | (f\/h)               | (ft/s)       | (sq ft)             | (ft)               | FIOGUS # CIII |
| North Main               | reach 1             | 211780                 | 2496.00             | 43.36          | 54.45          | 46.20          | 54.51          | 0.000119             | 1.96         | 1274.81             | 142.18             | 0.12          |
| North Main               | reach 1             | 211780                 | 3976.00             | 43.36          | 56.46          | 47.20          | 56.52          | 0.000116             | 2.12         | 3257.13             | 1449.07            | 0.12          |
| North Main               | reach 1             | 211780                 | 5665.00             | 43,36          | 58.02          | 48.17          | 58.05          | 0.000103             | 1.94         | 6008.04             | 2089.99            | 0.11          |
| North Main               | reach 1             | 211780                 | 10632.00            | 43.36          | 60.19          | 50.51          | 60.22          | 0.000099             | 1.92         | 11541.80            | 3122.10            | 0.11          |
| 44                       | 2.5                 | Law Mark 2014          | 0.400.00            | 45.00          |                |                |                |                      |              |                     | -                  |               |
| North Main<br>North Main | reach 1             | 210419                 | 2496.00             | 43.36          | 54.21          | 46.65          | 54.30          | 0.000197             | 2.43         | 1028,80             | 120.70             | 0.15          |
| North Main               | reach 1             | 210419<br>210419       | 3976.00<br>5665.00  | 43.36<br>43.36 | 56.31<br>57.92 | 47.80<br>48.91 | 56,36<br>57.94 | 0.000132             | 2.19         | 4199.25             | 2511.21            | 0.12          |
| North Main               | reach 1             | 210419                 | 10632.00            | 43.36          | 60.13          | 51,54          | 60,14          | 0.000084             | 1.34         | 8861.06<br>18098.20 | 3443.51<br>4581.51 | 0.09          |
| ZWEST-SOVOZ              | Franker I           |                        | 10002.00            | 70.00          | 30.10          | 01,04          | 30.14          | 0.000030             | 1.10         | 10030.20            | 4301.31            | 0.07          |
| North Main               | reach 1             | 209041                 | 2496.00             | 43.31          | 53.94          | 48.47          | 54.03          | 0.000193             | 2.41         | 1034.72             | 120.35             | 0.14          |
| North Main               | reach 1             | 209041                 | 3976.00             | 43.31          | 55.96          | 47.58          | 56.11          | 0.000261             | 3.09         | 1287.23             | 129.04             | 0.17          |
| North Main               | reach 1             | 209041                 | 5665.00             | 43.31          | 57.54          | 48.65          | 57.73          | 0.000304             | 3.55         | 2327.96             | 1290.67            | 0.19          |
| North Main               | reach1              | 209041                 | 10632.00            | 43.31          | 59.91          | 51.22          | 60.02          | 0.000239             | 3.43         | 7691.68             | 4465.29            | 0.17          |
|                          | 2010 (1910 9.4)     | nitii                  |                     |                |                |                |                |                      |              |                     |                    |               |
| North Main               | reach 1             | 208000.                | 2496.00             | 43.31          | 53.73          | 46.42          | 53.82          | 0.000203             | 2.47         | 1008.91             | 117.16             | 0.15          |
| North Main<br>North Main | reach 1<br>reach 1  | 208000.<br>208000.     | 3976.00<br>5665.00  | 43.31          | 55.67          | 47.52          | 55.83          | 0.000281             | 3.20         | 1243.92             | 124.74             | 0.16          |
| North Main               | reach 1             | 208000.                | 10632.00            | 43.31<br>43.31 | 57.14<br>59.71 | 48.59<br>51.17 | 57.37<br>59.79 | 0.000392<br>0.000312 | 3.90<br>2.86 | 1668.28<br>8848.89  | 688.31<br>5310.74  | 0.21          |
|                          |                     |                        | 10002.00            | 40.01          | 33.71          | 31.11          | 30.10          | 0.000312             | 2.00         | 0040.09             | 3310.74            | 0.18          |
| North Main               | reach 1             | 207786                 | 2496.00             | 43.31          | 53,70          | 46.46          | 53.79          | 0.000204             | 2.42         | 1029.70             | 124.78             | 0.15          |
| North Main               | reach 1             | 207786                 | 3976.00             | 43.31          | 55.62          | 47.57          | 55.77          | 0.000280             | 3.11         | 1279.33             | 135.09             | 0.18          |
| North Main               | reach 1             | 207786                 | 5665.00             | 43.31          | 57.09          | 48.63          | 57.28          | 0.000353             | 3.58         | 2331.79             | 1737.30            | 0.20          |
| North Main               | reach 1             | 207786                 | 10632.00            | 43.31          | 59.69          | 51.18          | 59.73          | 0.000188             | 2.27         | 11652.28            | 5236.79            | 0.14          |
|                          | realigier agains, S |                        |                     |                |                |                |                |                      |              |                     |                    |               |
| North Main               | reach 1             | 207730                 | 2496.00             | 43.31          | 53.68          | 46.46          | 53.77          | 0.000205             | 2.43         | 1028.22             | 124.72             | 0.15          |
| North Main<br>North Main | reach 1             | 207730                 | 3976.00<br>5665.00  | 43.31<br>43.31 | 55,60<br>57,08 | 47.57<br>48.63 | 55.75<br>57.27 | 0.000262             | 3.11         | 1277.13             | 135.01             | 0,16          |
| North Main               | reach 1             | 207730                 | 10632.00            | 43.31          | 59.68          | 51.18          | 59.72          | 0.000399             | 3.59<br>2.28 | 2309.23<br>11593.18 | 1727.38<br>5223.45 | 0,20          |
|                          | 3.746.24 370        |                        | 10002.00            | 70.01          | 33.00          | 01.10          | 33.12          | 0.000150             | 2.20         | 11393.10            | 3223.43            | 0.15          |
| North Main               | reach 1             | 206000.                | 2496.00             | 43.32          | 53.30          | 46.34          | 53.40          | 0.000218             | 2.51         | 992.70              | 118.50             | 0.15          |
| North Main               | reach 1             | 206000.                | 3976.00             | 43.32          | 55.47          | 47.42          | 55.49          | 0.000072             | 1.61         | 7081.65             | 3946.52            | 0.09          |
| North Main               | reach 1             | 208000.                | 5665.00             | 43.32          | 57.08          | 48.45          | 57.09          | 0.000030             | 1.00         | 13478.59            | 3985.96            | 0.00          |
| North Main               | reach 1             | 208000                 | 10632.00            | 43.32          | 59.62          | 50.95          | 59.63          | 0.000019             | 0.83         | 24035.16            | 4359.47            | 0.05          |
|                          |                     |                        |                     |                |                |                |                |                      |              |                     |                    |               |
| North Main               | reach 1             | 204471                 | 2496.00             | 43.17          | 52.92          | 46.31          | 53.04          | 0.000261             | 2.69         | 927.28              | 114.84             | 0.17          |
| North Main<br>North Main | reach 1             | 204471                 | 3976.00             | 43,17          | 55,10          | 47.42          | 55.27          | 0.000324             | 3.35         | 1186.38             | 123.44             | 0.19          |
| North Main               | reach 1             | 204471                 | 5665.00<br>10632.00 | 43.17<br>43.17 | 56.69<br>59.22 | 48.50<br>51.07 | 56.94<br>59.51 | 0.000498             | 4.04         | 1491.58<br>3662.74  | 388.90<br>1347.14  | 0.24          |
| HOLD MEDI                | (Caucity)           | 201741                 | 10032.00            | 43.17          | 39.22          | 31.07          | 38.31          | 0.000024             | 4.00         | 3002.74             | 1347.14            | 0.21          |
| North Main               | reach f             | 203192                 | 2496.00             | 43.15          | 52.70          | 45.78          | 52.77          | 0.000163             | 2.14         | 1168.31             | 145.67             | 0.13          |
| North Main               | reach 1             | 203192                 | 3976.00             | 43.15          | 54.81          | 46.71          | 54.92          | 0.000206             | 2.67         | 1488.65             | 157.54             | 0.15          |
| North Main               | reach 1             | 203192                 | 5665.00             | 43.15          | 56.29          | 47.64          | 56.45          | 0,000265             | 3.23         | 1833.33             | 212.62             | 0.18          |
| North Main               | reach 1             | 203192                 | 10632.00            | 43.15          | 58.48          | 49.84          | 58.82          | 0.000502             | 4.83         | 2727.38             | 720.38             | 0.25          |
|                          |                     |                        |                     |                |                |                |                |                      |              |                     |                    |               |
| North Main               | reach 1             | 202000.                | 2496.00             | 42.72          | 52.47          | 45.52          | 52.56          | 0.000188             | 2.34         | 1065.38             | 126.94             | 0.14          |
| North Main<br>North Main | reach 1             | 202000.<br>202000.     | 3976.00<br>5665.00  | 42.72<br>42.72 | 54.51<br>55.90 | 46.50<br>47.47 | 54.65<br>56.10 | 0.000247             | 2.99<br>3.64 | 1331.86<br>1847.40  | 134.54             | 0.17          |
| North Main               | reach1              | 202000.                | 10632.00            | 42.72          | 57.92          | 49.83          | 58.17          | 0.000520             | 4.47         | 3875.41             | 712.17             | 0.15          |
|                          |                     | 20200                  | 10002.00            | 12(2           | U1.02          |                |                | 0.00000              | 7.37         | 3073.41             | 1201.32            | 0.2           |
| North Main               | reach 1             | 201961                 | 2496.00             | 42.72          | 52.47          | 45.53          | 52.55          | 0.000184             | 2.29         | 1089.34             | 132.91             | 0.14          |
| North Main               | reach 1             | 201961                 | 3976.00             | 42.72          | 54.50          | 46.51          | 54.63          | 0.000239             | 2.90         | 1369.06             | 143.57             | 0.16          |
| North Main               | reach 1             | 201961                 | 5665.00             | 42.72          | 55.88          | 47.47          | 56.07          | <del></del>          | 3.54         | 1891.69             | 794.95             | 0,19          |
| North Main               | reach 1             | 201961                 | 10632.00            | 42.72          | 57.90          | 49.80          | 58.14          | 0.000455             | 4.39         | 4234.58             | 1556.96            | 0.23          |
| North Main               | reach 1             | 201917                 | 2496.00             | 42.72          | 52.46          | 45.53          | 52,54          | 0.000405             | 0.00         | 1000.00             | 120.07             |               |
| North Main               | reach 1             | 201917                 | 3976.00             | 42.72          | 54.49          | 45.53<br>46.51 | 52.54<br>54.62 |                      | 2.29<br>2.91 | 1088.23<br>1367.50  | 132.87<br>143.42   | 0.14          |
| North Main               | reach 1             | 201917                 | 5665.00             | 42.72          | 55.87          | 47.48          | 56.06          |                      |              | 1880.12             | 781.41             | 0.19          |
| North Main               | reach 1             | 201917                 | 10632.00            | 42.72          | 57.88          | 49.80          | 58.12          |                      | 4.43         | 4188.49             | 1541.85            |               |
|                          | Frank Bas           |                        |                     |                |                |                |                |                      |              |                     |                    |               |
| North Main               | reach 1             | 201322                 | 2496.00             | 42.52          | 52.35          | 45.31          | 52.43          |                      |              | 1082.67             | 127.58             |               |
| North Main               | reach 1             | 201322                 | 3976.00             | 42.52          | 54.34          | 46.29          | 54.48          |                      | 2.96         | 1344.10             |                    |               |
| North Main               | reach 1             | 201322                 | 5665.00             | 42.52          | 55.65          | 47,25          | 55.86          |                      | 3.72         | 1522.44             | 940.88             |               |
| North Main               | reach 1             | 201322                 | 10632.00            | 42.52          | 57.16          | 49.61          | 57.74          | 0.000810             | 6,12         | 1736,15             | 1134.68            | 0.3           |
| North Main               | reach 1             | 200676                 | 2496.00             | 42.52          | 52.20          | 45.68          | 52.30          | 0.000251             | 2,54         | 982.97              | 130.69             | 0.16          |
| North Main               | reach 1             | 200676                 | 3976.00             | 42.52          | 54.16          | 46.77          | 54.31          |                      |              |                     |                    |               |
| North Main               | reach 1             | 200676                 | 5665.00             | 42.52          | 55.51          | 47.83          | 55.65          |                      |              | 2761.61             | 1020.07            | +             |
| North Main               | reach 1             | 200676                 | 10632.00            | 42.52          | 57.08          | 50.32          | 57.21          | 0.000672             |              | 4797.36             | 1619.27            | 0.26          |
|                          |                     |                        |                     |                |                |                |                |                      |              |                     |                    |               |
| North Main               | reach 1             | 200030                 | 2496.00             | 42.52          | 52.04          | 45.42          | 52.14          |                      | 2.52         | 989,10              | 121,75             | <del>+</del>  |
| North Main               | reach 1             | 200030                 | 3976.00             | 42.52          | 53.99          | 46.45          |                |                      |              | 1798.87             | 765.51             | +             |
| North Main               | reach 1             | 200030                 | 5665.00             | 42.52          | 55.48          | 47.46          |                |                      | ·            |                     | 6195.38            |               |
| North Main               | reach 1             | 200030                 | 10632.00            | 42.52          | 57.07          | 49.89          | 57.08          | 0.000063             | 1.69         | 18701.31            | 6423.69            | 0.09          |
| North Main               | panch 1             | 199964                 | 2496.00             | 42.52          | E0.00          | 45.42          | 52.13          | 0.000229             | 2.52         | 987.18              | 121.60             | n 41          |
| North Main               | reach 1             | 199964                 | 3976.00             | 42.52<br>42.52 | 52.03<br>53.97 | 45.42<br>46.45 |                |                      | 2.53<br>3.03 | 987.18<br>1784.29   | 121.69<br>763.09   |               |
| North Main               | reach 1             | 199964                 | 5665.00             | 42.52          |                | 46.45          | <del></del>    |                      | <del></del>  | 8607.03             |                    |               |
| North Main               | reach 1             | 199964                 | 10632.00            | 42.52          |                | 49.89          | <del></del>    |                      | <del></del>  |                     |                    |               |

| River                    | Reach            | River Sta        | Q Total             | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev  | E.G. Slope   | Vel Chni  | Flow Area   | Top Width         | Froude # Chi                                     |
|--------------------------|------------------|------------------|---------------------|----------------|----------------|----------------|--|--------------|---|-------------|-------------------|--|
|                          |                  |                  | (cfs)               | (ft)           | (ft)           | (ft)           | (ft)   | (ft/ft)      | (ft/a)  | (sq ft)     | (ft)              | 2,15 .5.   |
|                          |                  |                  |                     |                |                |                |  |              | -   |             |                   |  |
| North Main               | reach 1          | 198000.          | 2496.00             | 42.52          | 51.58          | 45.27          | 51.67  | 0.000230     | 2.50  | 1097.98     | 435.16            | 0.16   |
| North Main               | reach:1          | 198000,          | 3976.00             | 42.52          | 53.78          | 46.26          | 53.80  | 0.000085     | 1.72  | 6441.07     | 3980.49           | 0.10   |
| North Main<br>North Main | reach 1          | 198000.          | 5665.00<br>10632.00 | 42.52<br>42.52 | 55.37          | 47.22          | 55.38  | 0.000037     | 1.22  | 14598.69    | 7520.33           | 0.07   |
| NUTUI MARI               | I Date I         | 198000.          | 10032.00            | 42.52          | 56.99          | 49.54          | 57.00  | 0.000026     | 1.01  | 27084.35    | 7796.21           | 0.06   |
| North Main               | reach 1          | 197361           | 2496.00             | 42.52          | 51.42          | 45.31          | 51.52  | 0.000253     | 2.55  | 979.09      | 120.40            | 0.40   |
| North Main               | reach 1          | 197381           | 3976.00             | 42.52          | 53.64          | 45.29          | 53.72  | 0.000192     | 2.52  | 3595.04     | 129.40<br>3411.51 | 0.16   |
| North Main               | reach 1          | 197381           | 5665.00             | 42.52          | 55.34          | 47.26          | 55.36  | 0.000192     | 1.57  | 10158.39    | 5196.18           | 0.15<br>0.09                                     |
| North Main               | reach 1          | 197381           | 10632.00            | 42.52          | 56.97          | 49.60          | 56.98  | 0.000050     | 1.48  | 21152.03    | 8828.98           | 0.09   |
| - 434-55 6               | No establishment |                  |                     |                |                |                |  | 2.00000      |   | 21102.00    | 5525.50           | 0,00   |
| North Main               | reach 1          | 197333           | 2496.00             | 42.52          | 51.41          | 45.31          | 51.51  | 0.000254     | 2.55  | 977.44      | 129,34            | 0.16   |
| North Main               | reach 4          | 197333           | 3976.00             | 42.52          | 53,59          | 46.30          | 53.70  | 0.000248     | 2.86  | 2366.31     | 2116.55           | 0.17   |
| North Main               | reach 1          | 197333           | 5665.00             | 42.52          | 55.32          | 47.27          | 55.35  | 0.000091     | 1.88  | 8623.65     | 5156.93           | 0.10   |
| North Main               | reach 1          | 197333           | 10632.00            | 42.52          | 56.96          | 49.60          | 56.98  | 0.000062     | 1.66  | 19645.46    | 8813.21           | 0.09   |
|                          |                  |                  |                     |                |                |                |  |              |   |             |                   |  |
| North Main               | reach 1          | 196000.          | 2498.00             | 42.53          | 51.02          | 45.36          | 51.14  | 0.000311     | 2.76  | 905.71      | 124.40            | 0.18   |
| North Main               | reach 1          | 196000.          | 3976.00             | 42.53          | 53.13          | 48.35          | 53.30  | 0.000356     | 3.34  | 1257.11     | 234.51            | 0.20   |
| North Mein               | reach 1          | 196000.          | 5665.00             | 42.53          | 55.08          | 47.33          | 55.1 <b>6</b>                                      | 0.000238     | 2.98  | 4622,04     | 3687.46           | 0.17   |
| North Main               | reach f          | 196000.          | 10632.00            | 42.53          | 56.83          | 49.71          | 56.66  | 0.000146     | 2.10  | 12424.50    | 5074.20           | 0.13   |
| - 4-5-1-                 |                  | 40.4505          | 0:55                |                |                |                |  |              |   |             |                   |  |
| North Main               | reach 1          | 194500           | 2496.00             | 42.53          | 50.40          | 45.52          | 50.58  | 0.000477     | 3.24  | 770.23      | 114.29            | 0.22   |
| North Main<br>North Main | reach 1          | 194500           | 3976.00<br>5665.00  | 42.53<br>42.53 | 52.40          | 46.57          | 52.64  | 0.000547     | 3,95  | 1007.73     | 122.68            | 0.24   |
| North Main               | reach 1          | 194500           | 10632.00            | 42.53<br>42.53 | 54.28<br>56.37 | 47.59<br>50.08 | 54.60<br>56.50                                     | 0.000595     | 4.54  | 1303.36     | 500.76            | 0.26   |
| THE REST                 | (Team)           | 10-1000          | 10032,00            | +2.33          | 30.37          | 30,05          | 30.50  | 0.000404     | 3.87  | 7574.98     | 4419.28           | 0.21   |
| North Main               | reach 1          | 194434           | 2496.00             | 42.53          | 50.36          | 45.52          | 50.53  | 0.000484     | 3.26  | 766.39      | 114.15            | 0.22   |
| North Main               | reach 1          | 194434           | 3976.00             | 42.53          | 52.36          | 46.57          | 52.61  | 0.000554     | 3.96  | 1002.95     | 122.52            | 0.22   |
| North Main               | reach 1          | 194434           | 5665.00             | 42.53          | 54.24          | 47.59          | 54.56  | 0.000604     | 4.56  | 1283.83     | 433.12            | 0.26   |
| North Main               | reach 1          | 194434           | 10632.00            | 42.53          | 56.33          | 50.07          | 56.48  | 0.000421     | 3.94  | 7419.69     | 4414.78           | 0.22   |
| 1. 1.1.                  |                  |                  |                     | ******         |                |                |  |              |   |             |                   |  |
| North Main               | reach 1          | 194000.          | 2496.00             | 42.44          | 50.16          | 45.40          | 50.32  | 0.000482     | 3.22  | 776.12      | 117.64            | 0.22   |
| North Main 🐦             | reach 1          | 194000.          | 3976.00             | 42.44          | 52.13          | 46.42          | 52.37  | 0.000550     | 3.91  | 1016.38     | 126.21            | 0.24   |
| North Main               | reach 1          | 194000.          | 5665.00             | 42.44          | 53.99          | 47.44          | 54.30  | 0.000592     | 4.48  | 1435.08     | 2482.27           | 0.26   |
| North Main               | reach 1          | 194000.          | 10632.00            | 42.44          | 56.25          | 49.86          | 56.30  | 0.000261     | 2.67  | 9983,62     | 4464.07           | 0.17   |
| 10 to 15.                |                  |                  | ļ                   |                |                |                |  |              |   |             |                   |  |
| North Main               | reach 1          | 192000           | 2496.00             | 42.24          | 48.94          | 45.08          | 49.15  | 0.000718     | 3.66  | 681.72      | 114.93            | 0.26   |
| North Main               | reach 1          | 192000           | 3976.00             | 42.24          | 50.74          | 46.09          | 51.04  | 0.000804     | 4.45  | 894.26      | 121.95            | 0.29   |
| North Main               | reach 1          | 192000           | 5665.00             | 42.24          | 52.51          | 47.07          | 52.90  | <del></del>  | 5,04  | 1197.09     | 357.87            | 0.30   |
| North Main               | reach 1          | 192000           | 10632.00            | 42.24          | 55. <b>68</b>  | 49.45          | 55.75  | 0.000290     | 2.98  | 7410.87     | 2439.52           | 0.18   |
| No                       | 25457            | 400700           | 0.400.00            | 40.04          |                | 45.44          | 45.75  |              |   |             |                   |  |
| North Main               | reach 1          | 190533           | 2496.00             | 42.24          | 45.91          | 45.14          | 46.76  | 0.006038     | 7.40  | 337.51      | 98.18             | 0.70   |
| North Main               | reach 1          | 190533           | 3976.00             | 42.24          | 48.23          | 46.19          | 48.97  | 0.002930     | 6.92  | 574.48      | 106.30            | 0.52   |
| North Main               | reach 1          | 190533           | 5665,00<br>10632,00 | 42.24<br>42.24 | 50.12          | 47.19<br>49.67 | 50.93  | 0.002330     | 7.25<br>9.04                                      | 781.76      | 112.93            | 0.49   |
| North Main               | reach 1          | 190033           | 10032.00            | 42.24          | 53.42          | 79.07          | 54.69  | 0.002497     | 9.04  | 1176.69     | 4681.43           | 0.52   |
| North Main               | reach 1          | 190528           | Inline Weir         |                |                |                |  |              |   |             |                   |  |
| THOUSE MANAGEMENT        |                  | I COLLO          |                     |                |                |                |  |              |   |             |                   |  |
| North Main               | reach 1          | 190513           | 2496.00             | 38.26          | 45.90          | 41.26          | 46.09  | 0.000555     | 3.48  | 717.37      | 106.14            | 0.24   |
| North Main               | reach 1          | 190513           | 3976.00             | 38.26          | 48.22          | 42.33          | 48.48  |              | 4.09  |             | 113.87            | 0.25   |
| North Main               | reach 1          | 190513           | 5665.00             | 38.26          | 50.11          | 43.39          | 50.48  | -            | 4.75  | 1193.16     | 120.05            | 0.27   |
| North Main               | reach 1          | 190513           | 10632.00            | 38.28          | 53.41          | 45.92          | 54.09  | 0.000972     | 6.60  | 1611.03     | 4641.72           | 0.34   |
|                          |                  |                  |                     |                |                |                |  |              |   |             |                   | ļ  |
| North Main               | reach 1          | 190000           | 2496.00             | 38.26          | 45.64          | 41.12          | 45.81  | +            | 3.28  |             | 118.79            | 0.23   |
| North Main               | reach 1          | 190000           | 3976.00             | 38.26          |                | 42.13          |  |              | 3.79  |             |                   | 0.23   |
| North Main               | reach 1          | 190000           | 5665.00             | 38.26          | 49,84          | 43.13          | <del></del>  |              | <del></del>                                       |             | +                 |  |
| North Main               | reach 1          | 190000           | 10632.00            | 38.26          | 53.00          | 45.51          | 53.57  | 0.000907     | 6.07  | 1751.28     | 5306,33           | 0.33   |
| Marie                    |                  | 100000           | 3400.00             |                |                | 44.00          |  |              |   |             | 1                 | <del></del>                                      |
| North Main               | reach 1          | 189032           | 2496.00             | 38.26          | 45.02          | 41.16          |  |              |   |             | <del></del>       |  |
| North Main               | reach 1          | 189032           | 3976.00             | 38.26          | 47.41          | 42.16          |  |              | <del></del>                                       | <del></del> |                   |  |
| North Main<br>North Main | reach 1          | 189032<br>189032 | 5685.00<br>10632.00 | 38.26<br>38.26 | 49.26<br>52.00 |                | •  |              | +   |             |                   |  |
| LACK DE MEGILE           | PORAL I          | 189032           | 10032.00            | 38.26          | 52.00          | 45.51          | 52.61  | 0.001104     | 6.25  | 1701.56     | +620,45           | 0.36   |
| North Main               | reach 1          | 188975           | 2496.00             | 38.26          | 44.98          | 41.15          | 45.18  | 0.000725     | 3.59  | 694.59      | 122.26            | 0.27   |
| North Main               | reach 1          | 188975           | 3976.00             |                |                | 42.16          | +  |              | 3.96  | -           |                   |  |
| North Main               | reach 1          | 188975           | 5665.00             |                | <del></del>    | 43.14          |  |              | 4.49  |             |                   |  |
| North Main               | reach 1          | 188975           | 10632.00            |                |                |                |  |              | 6.30  | +           | 4819.29           | <del>                                     </del> |
|                          |                  | T                | 1                   |                |                | 1              |  | 1            | 1   | 1           |                   | 1  |
| North Main               | reach 1          | 188000           | 1974.00             | 37.63          | 44.45          | 40.80          | 44.56  | 0.000498     | 2.67  | 739.65      | 151.69            | 0.21   |
| North Main               | reach 1          | 188000           | 3035.00             |                |                |                |  | +            |   | <del></del> |                   | <del></del>                                      |
| North Main               | reach 1          | 188000           | 4140.00             |                |                | 1              |  | <del></del>  |   |             | <del>}</del>      |  |
| North Main               | reach 1          | 188000           | 9192.00             |                |                |                |  | 0.000603     | 4.80  | 1           |                   |  |
|                          |                  |                  |                     |                |                |                |  |              |   | 1           |                   | L  |
| North Main               | reach f          | 187869           | 1974.00             | <del></del>    |                | $\overline{}$  |  | <del>+</del> |   | <del></del> | <del>,</del>      |  |
| North Main               | reach 1          | 187869           | 3035.00             | <del></del>    | +              |                | <del>                                       </del> |              | <del>,                                     </del> | +           | ·                 |  |
| North Main               | reach 1          | 187869           | 4140.00             | <del></del>    | <del> </del>   | <del></del>    | +  |              |   | <del></del> |                   |  |
| North Main               | reach 1          | 187869           | 9192.00             | 37.63          | 50.88          | 44.76          | 51.53  | 0.001079     | 6.45  | 1425.03     | 137.46            | 0.35   |
|                          |                  | :                | ļ                   |                |                | <u> </u>       | <u> </u>   | <del></del>  | <u> </u>  | 1           | 1                 | <del> </del>                                     |
| North Main               | reach 1          | 187694           | 1974.00             | 34.85          | 44.31          | 38,16          | 44.40  | 0.000235     | 2.43  | 811.04      | 107.38            | 0.16   |

North Main reach 1 0.16 0.17 187694 4140.00 34.85 48.78 39.82 48.93 0.000246 3.12 1328.31 123.98

| NOIDI MAJI   | 100011   | 10/084             | 4140,00   | 34.00 | 40.70 | 39.62 | 46.93 | 0.000246 | 3.12 | 1328,31  | 123.98  | 0.17         |
|--|--|--------------------|-----------|-------|-------|-------|-------|----------|------|----------|---------|--------------|
| North Main   | reach 1  | 187694             | 9192.00   | 34.85 | 50.82 | 42.68 | 51.34 | 0.000727 | 5.79 | 1588.03  | 131.58  | 0.29         |
| A. Alleria   |  | 444411.00          |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 188000             | 1974.00   | 34.04 | 44.04 | 36.81 | 44.10 | 0.000132 | 1.93 | 1022.40  | 125.69  | 0.12         |
| North Main   | reach 1  | 186000             | 3035.00   | 34.04 | 45.64 | 37.62 | 46.72 | 0.000135 | 2.23 | 1363.18  | 136.77  | 0.12         |
| North Main   | reach 1  | 186000             | 4140.00   | 34.04 | 48.56 | 38.36 | 48.61 | 0.000128 | 1.95 | 4617.70  | 3994.16 | 0.12         |
| North Main   | reach 1  | 188000             | 9192.00   | 34.04 | 50.93 | 41.06 | 50.94 | 0.000057 | 1.44 | 14601.44 | 4155.83 | 0.08         |
| Jakes Care   |  |                    | 3132.00   | 34.04 | 50.33 | 71.00 | 30.94 | 0.000037 | 1,44 | 14001.44 | 4135.03 | 0.00         |
| North Main   | reach f  | 404000             | 4074.00   | 24.00 | 40.70 |       | 40.05 | 0.000400 |      |          |         |              |
| The second second second second  | The second secon | 184000.            | 1974.00   | 34.09 | 43,79 | 36.53 | 43.85 | 0.000126 | 1.91 | 1035.28  | 124.93  | 0.12         |
| North Main   | reach 1  | 184000.            | 3035.00   | 34.09 | 46.38 | 37.32 | 46.46 | 0.000130 | 2.21 | 1370.98  | 133.88  | 0.12         |
| North Main   | reach 1  | 184000.            | 4140.00   | 34.09 | 48.23 | 38.04 | 48.33 | 0.000154 | 2.55 | 1625.14  | 158.78  | 0.13         |
| North Main   | reach 1  | 184000.            | 9192.00   | 34.09 | 50.72 | 40.68 | 50.77 | 0.000146 | 2.33 | 9767.71  | 4099.29 | 0.13         |
|  | TENERS S   | <b>新教中的</b>        |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 182000.            | 1974.00   | 33.49 | 43.54 | 35.97 | 43.60 | 0.000119 | 1.87 | 1054.40  | 124.12  | 0.11         |
| North Main   | reach 1  | 182000.            | 3035.00   | 33,49 | 46.12 | 36.78 | 46.20 | 0.000125 | 2.19 | 1387.44  | 133.82  | 0.12         |
| North Main   | reach 1  | 182000.            | 4140.00   | 33.49 | 47.89 | 37.51 | 47.99 | 0.000178 | 2.53 | 1635.98  | 165.55  | 0.14         |
| North Main   | reach 1  | 182000.            | 9192.00   | 33.49 | 50.56 | 40.20 | 50.57 | 0.000065 | 1.57 | 13830.96 | 4124.47 | 0.09         |
|  |  | Withdra The        |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 180000.            | 1974.00   | 33.44 | 43.29 | 35.98 | 43.35 | 0.000132 | 1,95 | 1012.90  | 121.55  | 0,12         |
| North Main   | reach 1  | 180000.            | 3035.00   | 33.44 | 45.86 | 36.80 | 45.94 | 0.000138 | 2.27 | 1337.52  | 131.27  | 0.13         |
| North Main   | reach 1  | 180000             | 4140.00   | 33.44 | 47.54 | 37.54 | 47.65 | 0.000163 | 2.65 | 1564.01  | 137.64  | 0.14         |
| North Main   | reach 1  | 180000.            | 9192.00   | 33.44 |       | 40.23 | 50.38 |          |      |          |         | 0.13         |
| PECAGI IMARI   | Deart I  | TOWARD.            | 9192.00   | 33.44 | 50.34 | 40.23 | 50.36 | 0.000136 | 2.27 | 10108.37 | 4109.54 | U.13         |
|  | 2 10 10 RESERVE TO 15 15 15 15 15 15 15 15 15 15 15 15 15  |                    |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 178120             | 1974.00   | 33.43 | 42.92 | 36.52 | 43.01 | 0.000243 | 2.44 | 809,03   | 110.95  | 0.16         |
| North Main   | reach 1  | 178120             | 3035.00   | 33.43 | 45.48 | 37.48 | 45.60 | 0.000235 | 2.73 | 1110.88  | 124.70  | 0.16         |
| North Main   | reach 1  | 178120             | 4140.00   | 33.43 | 47.10 | 38.34 | 47.26 | 0.000270 | 3.14 | 1319.95  | 133.40  |              |
| North Main   | reach 1  | 178120             | 9192.00   | 33.43 | 49.99 | 41.37 | 50.07 | 0.000214 | 3.10 | 8115.89  | 4097.10 | 0.16         |
|  |  | le Children (1)    |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach f  | 178059             | 1974.00   | 33.43 | 42.91 | 36.52 | 43.01 | 0.000244 | 2.44 | 808.02   | 110.90  | 0.16         |
| North Main   | reach 1  | 178059             | 3035.00   | 33.43 | 45.48 | 37.48 | 45.59 | 0.000235 | 2.73 | 1109.83  | 124.66  | 0.16         |
| North Main   | reach 1  | 178059             | 4140.00   | 33.43 | 47.09 | 38.34 | 47.25 | 0.000270 | 3.14 | 1318.64  | 133.34  | D.18         |
| North Main   | reach 1  | 178059             | 9192.00   | 33.43 | 49.97 | 41.37 | 50.06 | 0.000217 | 3.12 | 8057.24  | 4096.46 | 0.16         |
| 11 3337 143  | \$40.640.5 E   | 5.437              |           |       |       |       |       | 0.000    |      | 0007.2   |         |              |
| North Main   | reach 1  | 178000.            | 1974.00   | 33.28 | 42.92 | 36.03 | 42.99 | 0.000164 | 2.12 | 932.98   | 117.05  | 0.13         |
| North Main   | reach 1  | 178000.            | 3035.00   | 33.28 | 45.48 | 36.87 | 45.57 | 0.000167 | 2.44 | 1246.02  | 127.21  | 0.14         |
| North Main   | reach 1  | 178000.            | 4140.00   | 33.28 |       |       |       | 0.000107 |      |          |         |              |
|  |  |                    |           |       | 47.10 | 37.65 | 47.23 |          | 2.84 | 1457.21  | 133.63  | 0.15         |
| North Main   | reach 1  | 178000.            | 9192.00   | 33.28 | 50.00 | 40.43 | 50.03 | 0.000144 | 2.18 | 10351.96 | 4159.74 | 0.13         |
|  | 1 Appendig 42 Control of the   | 14 E4 PA 184 PA 18 |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 176000             | 1974.00   | 33.44 | 42.56 | 36.08 | 42.64 | 0.000187 | 2.19 | 902.71   | 119.65  | 0.14         |
| North Main   | reach 1  | 178000             | 3035.00   | 33.44 | 45.13 | 36.92 | 45.22 | 0.000182 | 2.48 | 1224.54  | 131.14  | 0.14         |
| North Main   | reach 1  | 176000.            | 4140.00   | 33.44 | 46.68 | 37.68 | 46.81 | 0.000215 | 2.89 | 1433.77  | 138.09  | 0.16         |
| North Main   | reach 1  | 176000.            | 9192.00   | 33.44 | 49.70 | 40.46 | 49.74 | 0.000145 | 2.31 | 10300,54 | 5018.62 | 0.13         |
| Luckersky.   | 4/11/2018  | State of the       |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 174282             | 1974.00   | 32.56 | 42.31 | 35.26 | 42.36 | 0.000131 | 1.93 | 1022.94  | 123.98  | 0.12         |
| North Main   | reach 1  | 174282             | 3035.00   | 32.56 | 44.87 | 36.04 | 44.95 | 0.000134 | 2.25 | 1351.54  | 132.10  | 0.12         |
| North Main   | reach 1  | 174282             | 4140.00   | 32.56 | 46.37 | 36.77 | 46.48 | 0.000166 | 2.67 | 1553.25  | 136.97  | 0.14         |
| North Main   | reach 1  | 174282             | 9192.00   | 32.56 | 49.24 | 39.35 | 49.39 | 0.000329 | 3.52 | 6487.58  | 6504.80 | 0.19         |
|  | · Charles Will   | A 218-1 19-1       |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 173031             | 1974.00   | 32.46 | 42.11 | 35.14 | 42.18 | 0.000161 | 2.10 | 940.34   | 118.08  | 0.13         |
| North Main   | reach f  | 173031             | 3035.00   | 32.46 | 44.67 | 35.99 | 44.76 | 0.000165 | 2.41 | 1257.01  | 129.57  | 0.14         |
| North Main   | reach 1  | 173031             | 4140.00   | 32.46 | 46.13 | 36.78 | 46.25 | 0.000205 | 2.86 | 1449.79  | 136.18  | 0.15         |
| North Main   | reach 1  | 173031             | 9192.00   | 32.46 | 48.95 | 39.58 | 49.05 | 0.000203 | 3,13 | 9342.23  | 7832.45 | 0.15         |
| IVOIUI MARI  | (GaGI)   | 173031             | 9192.00   | 32.40 | 40.53 | 39,30 | 45.05 | 0.000202 | 3,13 | 9342.23  | 1032.43 | 0,10         |
|  | a large of   | 1.70070            | 4074.00   |       | 40.44 |       |       |          |      |          | 140.05  |              |
| North Main   | reach 1  | 172979             | 1974.00   | 32.46 | 42.11 | 35.14 | 42.17 | 0.000162 | 2.10 | 939.32   | 118.05  | 0.13         |
| North Main   | reach 1  | 172979             | 3035.00   | 32.46 | 44.67 | 35.99 | 44.76 | 0.000166 | 2.42 | 1255.87  | 129.53  | 0.14         |
| North Main   | reach 1  | 172979             | 4140.00   | 32.46 | 46.11 | 36.77 | 46.24 | 0.000205 | 2.86 | 1448.30  |         |              |
| North Main   | reach 1  | 172979             | 9192.00   | 32.46 | 48.93 | 39.58 | 49.03 | 0.000208 | 3.18 | 9150.24  | 7831.77 | 0.16         |
| 11 11 11 11 11 11 11 11  | a state from the   | A be allowed       |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 172000.            | 1974.00   | 32.46 | 41.95 | 35.04 | 42.02 | 0.000155 | 2.06 | 957.79   | 120.05  | 0,13         |
| North Main   | reach 1  | 172000.            | 3035.00   | 32.46 | 44.51 | 35.86 | 44.60 | 0.000157 | 2.38 | 1276.18  | 128.96  | 0.13         |
| North Main   | reach 1  | 172000.            | 4140.00   | 32.46 | 45.92 | 36.61 | 46.04 | 0.000196 | 2.83 | 1461.47  | 133.86  | 0.15         |
| North Main   | reach t  | 172000             | 9192.00   | 32.46 | 48.43 | 39.37 | 48.71 | 0.000535 | 4.45 | 3910.20  | 3452.95 | 0.25         |
|  | 4 1981 A 1994 A  | The state of the   |           |       |       |       |       | 1        |      |          |         |              |
| North Main   | reach 1  | 170000.            | 1974.00   | 32.45 | 41.65 | 34.87 | 41.71 | 0.000147 | 2.01 | 982.79   | 122.56  | 0.12         |
| North Main   | reach 1  | 170000             | 3035.00   | 32.45 | 44.20 | 35.65 | 44.28 |          | 2.32 |          |         |              |
| North Main   | reach 1  | 170000.            | 4140.00   | 32.45 | 45.51 | 36.36 | 45.63 |          | 2.78 |          |         |              |
| North Main   | reach 1  | 170000.            | 9192.00   | 32.45 | 46.94 | 38.97 | 47.38 |          | 5.34 |          |         |              |
| 1402 RT BARRIT   | TOBOT !  | 170000.            | 5192.00   | 34.45 | 40.94 | 30.97 | 47.38 | 0.000018 | 5.34 | 1720.52  | 170.75  | 0.30         |
| March Barr   |  | 400000             | 4074.00   |       |       |       | ·     | 0.0001   | ·    |          | 100 11  | <del> </del> |
| North Main   | reach 1  | 168000.            | 1974.00   | 32.50 | 41.32 | 34.99 | 41.39 |          | 2.15 |          |         |              |
| North Main   | reach 1  | 168000.            | 3035.00   | 32.50 | 43.86 | 35.79 | 43.96 |          | 2.44 |          |         |              |
| North Main   | reach 1  | 168000.            | 4140.00   | 32.50 | 45.06 | 36.53 | 45.15 |          | 2.61 |          |         |              |
| North Main   | reach 1  | 168000.            | 9192.00   | 32.50 | 46.35 | 39.17 | 46.42 | 0.000262 | 2.83 | 8235.54  | 4202.26 | 0.17         |
| 1 2 2 2  |  |                    |           |       |       |       |       |          |      |          |         |              |
| North Main   | reach 1  | 167722             | 1974.00   | 32.50 | 41.25 | 35.05 | 41.33 | 0.000204 | 2.26 | 871.91   | 116.28  | 0.15         |
| North Main   | reach 1  | 167722             | 3035.00   | 32.50 | 43.80 | 35.87 | 43.91 |          | 2.57 | +        |         |              |
| North Main   | reach 1  | 167722             | 4140.00   | 32.50 | 44.96 |       | 45.08 |          | 2.91 |          |         |              |
| The second secon |  |                    |           |       |       |       |       |          |      |          |         |              |
|  | I TREACH 1   | 187722             | 0.102.001 | 30 40 |       | 30.27 |       |          |      |          |         |              |
| North Main   | reach 1  | 167722             | 9192.00   | 32.50 | 46.27 | 39.37 | 46.35 | 0.000226 | 3.07 | 9976.69  | 7209.73 | 0.16         |

HEC-RAS Plans P. 50% D. (Continued)

| River                    | Plan- P 50% I<br>Reach | River Sta      | Q Total            | Min Ch El      | W.S. Elev      | Crit W.S.      | E.G. Elev      | E.G. Slope | Vel Chnf     | Flow Area          | Top Width          | Froude # Chi  |
|--------------------------|------------------------|----------------|--------------------|----------------|----------------|----------------|----------------|------------|--------------|--------------------|--------------------|---------------|
|                          | Service Services       |                | (cfs)              | (ft)           | (ft)           | (ft)           | · (ft)         | (ft/ft)    | (ft/s)       | (sq ft)            | (ft)               | 110000 # 0.11 |
| North Main               | reach 1                | 167842         | 1974.00            | 32.50          | 41.24          | 35.05          | 41.32          | 0.000205   | 2.27         | 869.95             | 116.21             | 0.15          |
| North Main               | reach 1                | 167642         | 3035.00            | 32.50          | 43.79          | 35.88          | 43.89          | 0.000198   | 2.58         | 1178,37            | 125.79             | 0.15          |
| North Main               | reach 1                | 167642         | 4140.00            | 32.50          |                | 36.62          | 45.07          | 0.000230   | 2.93         | 2371.19            | 2982.25            | 0.16          |
| North Main               | reach 1                | 167842         | 9192.00            | 32.50          | 46.25          | 39.37          | 46.33          | 0.000234   | 3.13         | 9790.33            | 7167.82            | 0.17          |
| March Maria              |                        | 72.0           |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 168000.        | 1974.00            | 32.51          | 40.87          | 35.10          | 40.95          | 0.000236   | 2.33         | 848.74             | 123.00             | 0.18          |
| North Main               | reach 1                | 166000.        | 3035.00            | 32.51          | 43.43          | 35.92          | 43.53          | 0.000247   | 2.56         | 1183.53            | 152.94             | 0.16          |
| North Main               | reach 1                | 166000.        | 4140.00            | 32.51          | 44.45          | 36.67          | 44.59          | 0.000374   | 3.03         | 1454.61            | 1304.02            | 0.20          |
| THUY UT MAIN             | reach)                 | 100000         | 9192.00            | 32.51          | 45.94          | 39,38          | 45.98          | 0.000179   | 2.27         | 12481.40           | 7848.60            | 0.14          |
| North Main               | reach 1                | 164000.        | 1974.00            | 31.68          | 40.48          | 34.10          | 40.55          | 0.000400   |              |                    |                    |               |
| North Main               | reach 1                | 164000.        | 3035.00            | 31.68          | 42.98          | 34.89          | 40.55<br>43.08 | 0.000168   | 2.06         | 958.62             | 128.92             | 0.13          |
| North Main               | reach 1                | 184000.        | 4140.00            | 31.68          | 44.05          | 35.60          | 44.10          | 0.000212   | 2.29         | 1327.52            | 181.82             | 0.15          |
| North Main               | reach 1                | 164000.        | 9192.00            | 31.68          | 45.75          | 38.22          | 45.76          | 0.000087   | 2.06         | 5299.46            | 6485.77            | 0.13          |
|                          | 16-4-4                 | (4th)          | - 7,0              |                | 10.70          |                | 40.70          | 0.00007    | 1.40         | 17973.91           | 7843.09            | 0.09          |
| North Main               | reach 1                | 163662         | 1974.00            | 31.34          | 40.43          | 33.78          | 40.49          | 0.000154   | 2.02         | 977.12             | 126.16             | 0.13          |
| North Main               | reach 1                | 163662         | 3035.00            | 31.34          | 42.92          | 34.56          | 43.00          | 0.000162   | 2.33         | 1303.69            | 140.35             | 0.13          |
| North Main               | reach 1                | 163662         | 4140.00            | 31.34          | 43.98          | 35.27          | 44.04          | 0.000215   | 2.15         | 4231.98            | 4430,39            | 0.15          |
| North Main               | reach-1                | 163662         | 9192.00            | 31.34          | 45.73          | 37.89          | 45.74          | 0.000104   | 1.66         | 13895.87           | 5000.00            | 0.11          |
| 3 24 2                   | · Same and             | 7 7 55 75 77 1 | !                  |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 163605         | 1974.00            | 31.34          | 40.42          | 33.78          | 40.49          | 0.000155   | 2.02         | 975.98             | 126.12             | 0.13          |
| North Main               | reach 1                | 163605         | 3035.00            | 31.34          | 42.91          | 34.56          | 42.99          | 0.000161   | 2.33         | 1302.40            | 139.78             | 0.13          |
| North Main               | reach 1                | 163605         | 4140.00            | 31.34          | 43.97          | 35.28          | 44.03          | 0.000218   | 2.17         | 4170.09            | 4401.36            | 0.15          |
| North Main               | reach 1                | 163605         | 9192.00            | 31.34          | 45.72          | 37.90          | 45.74          | 0.000105   | 1.66         | 13859.00           | 6000.00            | 0.11          |
| Adamb Ar 1               |                        | 1 ×            |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 162000.        | 1974.00            | 31.35          | 40.15          | 33.81          | 40.22          | 0.000176   | 2.09         | 943.78             | 128.25             | 0.14          |
| North Main               | reach 1                | 162000.        | 3035.00            | 31.35          | 42.60          | 34.60          | 42.69          | 0.000226   | 2.36         | 1286.70            | 176.80             | 0.15          |
| North Main               | reach 1                | 162000.        | 4140.00            | 31.35          | 43.87          | 35.32          | 43.87          | 0.000046   | 1.10         | 10898.96           | 6626.67            | 0.07          |
| North Main               | reach 1                | 162000.        | 9192.00            | 31.35          | 45.64          | 37.95          | 45.65          | 0.000029   | 0.94         | 24226.59           | 7862.08            | 0.06          |
| North Main               | reach 1                | 180000.        | 1974.00            | 31.35          | 39.83          | 33.56          | 20.00          | 0.000454   | - 105        |                    |                    |               |
| North Main               | reach 1                | 160000.        | 3035.00            | 31.35          | 42.23          | 34.27          | 39.89<br>42.31 | 0.000151   | 1.95         | 1013,42            | 135.93             | 0.13          |
| North Main               | reach 1                | 160000.        | 4140.00            | 31.35          | 43.68          | 34.93          | 43.72          | 0.000151   | 2.25<br>1.98 | 1351.00<br>4900.37 | 145.49             | 0.13          |
| North Main               | reach 1                | 160000.        | 9192.00            | 31.35          | 45.55          | 37.37          | 45.56          | 0.000062   | 1.48         | 17835.44           | 4799.01<br>7833.30 | 0.12<br>0.08  |
|                          | - political            |                | 7,52,55            |                | 45.00          | 07.07          | 45.50          | 0.00002    | 1.40         | 17033.44           | 1033.30            | 0.08          |
| North Main               | reach 1                | 158000.        | 1974.00            | 31.36          | 39.46          | 33.74          | 39.54          | 0.000208   | 2.19         | 899,41             | 129.17             | 0.15          |
| North Main               | reach 1                | 158000.        | 3035.00            | 31,36          | 41.86          | 34.50          | 41.96          | 0.000205   | 2.48         | 1222.41            | 143.77             | 0.15          |
| North Main -             | reach 1                | 158000.        | 4140.00            | 31.36          | 43.36          | 35.20          | 43.42          | 0.000181   | 2.20         | 4167.42            | 4237.10            | 0.14          |
| North Main               | reach 1                | 158000.        | 9192.00            | 31.36          | 45.42          | 37.72          | 45.44          | 0.000065   | 1.44         | 17806.34           | 7860.04            | 0.09          |
| 112.32                   | Manager .              |                |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach:1                | 157191         | 1974.00            | 31.36          | 39.26          | 33.81          | 39.35          | 0.000259   | 2.42         | 816.54             | 119.01             | 0.16          |
| North Main               | reach 1                | 157191         | 3035,00            | 31.36          | 41.58          | 34.61          | 41.78          | 0.000243   | 2.72         | 1113.90            | 128.50             | 0.16          |
| North Main               | reach 1                | 157191         | 4140.00            | 31.36          | 43.08          | 35.33          | 43.23          | 0.000281   | 3.15         | 1584.34            | 1820.91            | 0.18          |
| North Main               | reach 1                | 157191         | 9192.00            | 31,36          | 45.34          | 37.99          | 45.37          | 0.000103   | 2.06         | 14907.75           | 8000.00            | 0.11          |
|                          | 7.5                    | 1              |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 157140         | 1974.00            | 31.36          | 39.25          | 33.81          | 39.34          | 0.000261   | 2.42         | 814.90             | 116.96             | 0.16          |
| North Main<br>North Main | reach 1                | 157140         | 3035.00            | 31.36          | 41.65          | 34.60          | 41.76          | 0.000244   | 2.73         | 1112.24            | 128.45             | 0.16          |
| North Main               | reach 1                | 157140         | 9192.00            | 31.36<br>31.36 | 43.07          | 35.33          | 43.22          | 0.000283   | 3.16         | 1562.15            | 1759.26            | 0.18          |
| TOTAL MIGHT              | TOWARD !               | 107 140        | 3132.00            | 31,30          | 45.34          | 37.98          | 45.36          | 0.000104   | 2.07         | 14862.52           | 8000.00            | 0.11          |
| North Main               | reach 1                | 158000.        | 1974.00            | 31.36          | 38.93          | 33.74          | 39.03          | 0.000282   | 2.48         | 796.23             | 118.51             | 0.17          |
| North Main               | reach-1                | 158000.        | 3035.00            | 31.36          | 41.38          | 34.52          | 41.48          | 0.000256   | 2.77         | 1094.52            | 127.19             | 0.17<br>0.17  |
| North Main               | reach 1                | 156000.        | 4140.00            | 31.36          | 42.67          | 35.23          | 42.83          | 0.000407   | 3.21         | 1288.21            | 170.96             | 0.17          |
| North Main               | reach 1                | 156000.        | 9192.00            | 31.36          | 45.25          | 37.85          | 45.26          | 0.000073   | 1.58         | 17233.10           | 7826.93            | 0.21          |
|                          |                        |                |                    |                |                |                |                |            |              |                    | . 02.0.00          | 5.05          |
| North Main               | reach:1                | 154844         | 1974.00            | 31.37          | 38.55          | 33.62          | 38.64          | 0.000289   | 2.47         | 800.05             | 122.17             | 0.17          |
| North Main               | reach 1                | 154844         | 3035.00            | 31.37          | 41.02          | 34.36          | 41.14          | 0.000250   | 2.73         | 1111.31            | 129.47             | 0.16          |
| North Main               | reach 1                | 154644         | 4140.00            | 31.37          | 42.17          | 35.03          | 42.34          | 0.000316   | 3.28         | 1262.82            | 132.87             | 0.19          |
| North Main               | reach 1                | 154644         | 9192.00            | 31.37          | 44.99          | 37.54          | 45.08          | 0.000290   | 3.09         | 8917.78            | 7742.92            | 0.18          |
|                          | 711.4                  |                |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 153231         | 1974.00            | 31.03          | 38.05          | 33.60          | 38.16          | 0.000395   | 2.73         | 722.44             | 120.99             | 0.20          |
| North Main               | reach 1                | 153231         | 3035.00            | 31.03          | 40.61          | 34.38          | 40.74          | 0.000308   | 2.90         | 1047,67            | 132.66             | 0.18          |
| North Main               | reach 1                | 153231         | 4140.00            | 31.03          | 41.65          | 35.10          | 41.84          | 0.000396   | 3.48         | 1188.09            | 137.43             | 0.21          |
| North Main               | reach 1                | 153231         | 9192.00            | 31.03          | 44.07          | 37.67          | 44.44          | 0.000896   | 5.23         | 3629.83            | 4998,18            | 0.31          |
| Morth Mai-               |                        | 152504         | 1071.00            |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 152561         | 1974.00            | 31,03          | 37.74          | 33.55          | 37.87          | 0.000476   | 2.93         | 674.35             | 117.57             | 0.22          |
| North Main<br>North Main | reach 1                | 152561         | 3035.00<br>4140.00 | 31.03<br>31.03 | 40.38          | 34.35          | 40.52          | 0.000350   | 3.03         | 1002.64            | 131.13             | 0.19          |
| North Main               | reach 1                | 152561         | 9192.00            | 31.03          | 41.35<br>43.59 | 35.08<br>37.76 | 41.55          | 0.000458   | 3.66         | 1131.80            | 136.11             | 0.22          |
| VIUI MAIN                | 1 Street 1             | (02001         | 3192.00            | 31,03          | 43.39          | 37.76          | 43.80          | 0.000853   | 4,34         | 5044.71            | 4619.92            | 0.30          |
| North Main               | reach 1                | 152553         | Inline Weir        |                |                |                |                |            |              |                    |                    |               |
| medi                     |                        | 1              |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 152515         | 1974.00            | 28.25          | 37.73          | 30.75          | 37.80          | 0.000145   | 2.00         | 988.86             | 123.74             | 0.12          |
| North Main               | reach 1                | 152515         | 3035.00            | 28.25          | 40.37          | 31.57          | 40.45          | 0.000143   | 2.28         | 1329.35            | 134.53             | 0.12          |
| North Main               | reach 1                | 152515         | 4140.00            | 28.25          | 41.34          | 32.30          | 41.46          | 0.000204   | 2.83         | 1461.30            | 138.49             | 0.15          |
| North Main               | reach 1                | 152515         | 9192.00            | 28.25          | 43.58          | 34.98          | 43.74          | 0.000517   | 3.67         | 5659.88            | 5396.13            | 0.23          |
|                          | 1                      |                |                    |                |                |                |                |            |              |                    |                    |               |
| North Main               | reach 1                | 152000.        | 1974.00            | 28.25          | 37.66          | 30.80          | 37.72          | 0.000156   | 2.04         | 965.84             | 123.14             | 0.13          |
| North Main               | reach 1                | 152000.        | 3035.00            | 28.25          | 40.30          | 31.62          | 40.38          | 0.000153   | 2.32         | 1305.78            | 134.65             | 0.13          |
|                          |                        |                |                    |                |                |                |                |            |              |                    |                    |               |

HEC-RAS Plan- P. 50% D. (Continued) Top Width Froude # Chl Flow Area E.G. Elev E.G. Slope Vel Chni Min Ch El W.S. Elev Crit W.S. O Total (sq ft) (ft/s) (fl/ft) (ft) (11) (fl)(cfs) (ff) 138.72 0.16 1433.62 28.25 41 23 32.36 41 36 0.000217 North Main 152000 4140,00 7806.77 0.16 2.84 9578.62 43.47 35.10 43.54 0.000221 28.25 9192.00 152000 North Main 0,12 0.000140 1,98 996 62 121.88 30.65 37.66 37.60 28.25 1974.00 North Main reach 1 151600 1329 49 130.56 0.13 0.000140 2.28 40 24 31.43 40.32 28.25 reach 1 151600 3035.00 0.15 2.86 1449.64 133.55 0.000202 4140.00 28,25 41.15 32.14 41.28 mach 1 151600 North Mair 1689.32 4091,48 0.28 0.000662 5.44 42.90 34.77 43.36 9192.00 28.25 North Main reach 1 151600 121.84 0.12 1.98 995 16 0.000140 37.65 28.25 37 59 30.65 1974.00 151518 North Mair reach 1 0.13 130.52 1327 91 0.000141 2.29 40.31 3035.00 28,25 40.23 31.43 151518 North Main reach 1 0.15 133,49 2.86 1447.30 32.14 41.26 0.000203 28,25 41.13 4140.00 mach 1 151518 North Mair 0.28 5.47 1680.58 4090,65 43.31 34.76 28.25 42.84 9192.00 North Main each 1 151518 123.40 0.13 37.42 0.000164 2.09 958.58 30.55 2001.00 27.92 37.35 150000 North Main reach 1 0.13 135.44 1301,49 31.34 40.09 0.000153 2.32 3014.00 27 92 40.00 150000 North Mair reach 1 D.17 1542.21 699.58 40.90 0.000281 2.86 40.77 32.07 4076.00 27.92 150000 North Main reach 1 0.31 2951.90 3012.74 42.14 0.000860 5.13 34.70 41.76 150000. 8892.00 27.92 North Main reach 1 125,02 0.12 1011.37 29.83 37.12 0.000140 1.98 27.14 37.06 148000 2001.00 reach 1 North Main 309.44 0.14 2.20 1381.87 39.68 30.62 39.76 0.000175 27.14 148000 3014.00 North Main reach 1 5574.24 0.10 6470.94 1.68 31.35 40.56 0.000095 27.14 40.54 reach 1 148000 4076.00 North Mai 7838.00 0.12 13262.16 2.05 33.98 41.50 0.000129 27.14 41.47 148000 8892.00 reach 1 North Main 0.12 0.000128 1.90 1051.45 128.48 37.00 36.95 29 72 27.14 2001.00 147159 North Mair 0,15 2.09 1668.50 1158.01 0.000227 39.59 39.52 30.47 27.14 147159 3014.00 North Main reach 1 0.09 9390 79 7982.92 1.11 40.48 0.000086 4076.00 27.14 40 47 31.16 147159 North Main reach 1 0.09 0.000088 16760.99 8000.00 1.23 41.40 27.14 41.39 33.68 8892.00 147159 North Mair reach 1 128.45 0.12 1050.65 1 90 37.00 0.000128 29.72 27.14 36.94 2001.00 147111 0.15 North Mair each 1 1154.07 2.10 1655.03 30.47 39.58 0.000229 3014.00 27.14 39.51 147111 resch 1 0.09 North Main 7982.59 9358.44 31.16 40.48 0.000087 1.12 27.14 40.47 4076.00 147111 North Main reach 1 0.09 8000.00 33.68 41.40 0.000088 1.23 16726.63 27.14 41.39 8892.00 147111 North Mair reach 1 123.82 0.12 995.35 2.01 36 85 0.000146 36.78 29,76 146000 2001.00 27,13 North Main reach 1 169.80 0.14 1338.33 30.53 39 35 0.000187 2.25 39.27 3014.00 27.13 148000 North Main reach 1 10551.50 7812.82 0.07 1.21 40.41 0.000049 40.40 31.24 146000 4076.00 27,13 North Main reach 1 17646.80 7827.91 0.09 1.46 41.31 0.000066 41.30 33.81 8892.00 27.13 46000 North Main reach 1 120.21 0.13 36.46 29.78 36.53 0.000169 2.12 27.12 44000 2001 00 North Main reach 1 130.18 0.14 2.42 1246.59 30.56 38.99 0.000169 38.90 144000 3014.00 27.12 North Main reach 1 7788.35 0.10 7266.21 1.63 31.29 40.27 0.000092 40.25 144000 4076.00 27.12 North Main reach 1 7812.94 0.11 1.91 14067.28 33.88 41.14 0.000116 41.12 8892.00 27.12 144000 North Main reach 1 0.14 2.13 938.02 122.61 36.40 0.000175 36.33 29 78 27.12 2001.00 143233 reach 1 0.14 North Main 1250.46 140.30 0.000183 2.41 27.12 38.77 30.56 38.86 143233 3014.00 reach 1 0.16 North Main 3416 3R 3876.20 0.000254 2.19 40.10 31.27 40.16 27.12 4076.00 North Main 143233 reach 1 0.09 1.20 16477.06 8000,00 0.000094 41.05 33,88 41.06 8892.00 North Main reach 1 143233 0.14 122.57 936,83 0.000176 2.14 36.39 29.78 27.12 36.32 2001.00 reach 1 143179 0.14 North Main 140.02 38.85 0.000183 2.41 1249.04 30.56 3014.00 27.12 38.76 reach 1 143179 0.16 North Main 3871.08 0.000257 2.21 3353.08 31.27 40.14 27.12 40.08 4076.00 reach 1 143179 0.09 North Mair 8000.00 0.000093 1.24 16432.60 33.87 8892.00 27.12 41.04 North Main reach 1 143179 0.15 866.49 119.42 2.31 36 16 0.000219 29.92 2001.00 27.13 36,08 142000 North Main mach 1 1172.40 131.57 0.15 2.57 38,52 30.73 38 62 0.000208 3014.00 27.13 3424.88 142000 North Main reach 1 0.15 3673.67 2.40 31.47 39.87 0.000207 39,80 4076.00 27.13 142000 North Main reach 1 19465.19 7841.18 0.08 1.23 34.17 40.97 D.000051 40.96 8892.00 27.13 142000. North Main reach 1 0.14 882.75 116 06 2.27 0.000200 35.91 29.45 35.99 26.68 141221 2001.00 reach 1 0.21 North Main 1256.65 301.25 38.38 0.000489 2.40 30.26 38.29 26.68 141221 3014.00 0.11 North Main reach 1 6034.85 3735.30 0.000124 39.71 31.03 39.73 26.68 141221 4076.00 0.05 North Main reach 1 0.00002 0.74 24661.83 8000.00 33.73 40.95 26.68 40.95 141221 8892.00 reach 1 North Main 0.15 116.00 35.98 2 27 881.15 0.00020 26.68 35.90 29.45 2001.00 141154 0.21 North Mair reach 1 308.36 2.42 1246.33 0.000517 38.34 26.68 38 25 30.26 3014.00 reach 1 141154 0.11 North Main 3733.40 0.000126 1,40 6019.57 39.72 26,68 39.70 31.02 4076.00 reach 1 141154 0.05 North Mair 00.0008 0.000027 0.73 24647.33 26.68 40.94 33.73 8892.00 reach 1 141154 North Main 0.15 872.54 35.75 0.000204 2.29 29.29 26 64 35.67 2001.00 North Main reach 1 140000 0.16 807.89 1214.01 0.000234 2.65 37.96 30.09 3014.00 26 64 37.85 140000 reach 1 0.13 North Mai 3316.75 4648.87 39.56 0.000161 2.01 30.85 39.51 4076.00 26.64 reach 1 140000 North Main 0.06 21994.08 7881.80 40.91 0.000037 1.04 33.52 26.64 40.91 8892.00 North Main 140000 reach 1 971.05 121.06 0.13 2.06 28.29 35 40 0.000154 2001.00 35.33 25.62 138000 North Main reach 1 130.81 0.14 1239.50 2.43 0.000173 37.47 29.09 37.56 3014.00 25 62 138000 0.17 North Main reach 1 1542 00 2.70 1709.87 0.000260 39.04 29.83 39.15 4076.00 25.62 138000 North Main reach 1 1.47 17240.38 7841.93 0.09 40.81 0.000067 32.47 40,80 138000. 8892.00 25,62 North Main reach 1 0.13 122.86 2.06 997.07 0.000153 35.03 28.14 35.09 25.62 138000 2053.00 North Main reach 1

HEC-RAS Plan. P 50% D (Continued)

| The Part   The Color   The C   | River         | lan• P 50% D<br>Reach | Continue<br>River Sta | Q Total  | Min Ch El | W.S. Elev     | October       |          |          |      |          |               |              |
|--|---------------|-----------------------|-----------------------|----------|-----------|---------------|---------------|----------|----------|------|----------|---------------|--------------|
|  |               |                       | 1010100               |          |           |               |               |          |          |      |          |               | Froude # Chi |
| Sert March   1,00000   | North Main    | reach 1               | 138000.               |          |           |               |               |          |          |      |          |               |              |
| Morth Match   Amach   1   186000   19812 00   25.55   46.50   32.07   66.50   10.000717   1.97   11879 34   1779-87  | North Main    | reach 1               |                       |          |           |               |               |          |          |      |          |               | 0.14         |
| Sept   March   199022   2765   20   22.60   35.00   23.00   30.00      | North Main    | reach 1               |                       |          |           |               |               |          |          |      |          |               | 0.15         |
| North March      |               | No or and second      | . It is the           |          |           |               |               | 10.00    | 0.000127 | 1.37 | 11093,34 | 7278.87       | 0.12         |
| North March   1, 159922  | North Main    | reach 1               | 135932                | 2053.00  | 25.63     | 35.02         | 28,19         | 35.09    | 0.000154 | 2.06 | 996 97   | 124 40        |              |
| North Marin   19692   41900   2-9.59   39.56   79.67   39.88   0.00000   7.87   156.98   1377.79   North Marin   15000   150000   150000   2.50   150000   2.50   100000   2.50   100000   2.50   100000   2.50   100000   2.50   100000   2.50   100000   2.50   100000   2.50   10000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   10000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   10000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   10000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   1000000   2.50   10000000   2.50   10000000   2.50   10000000   2.50   10000000   2.50   10000000   2.50   10000000   2.50   10000000   2.50   10000000000000000000000000000000000  | North Main    | reach 1               | 135932                | 3060.00  | 25.63     |               |               |          |          |      |          |               | 0.13         |
| Shorth Mane  |               | reach 1               | 135932                | 4109.00  | 25.63     | 38.56         |               |          |          |      |          |               | 0.14         |
| North Mater   1,000    | North Main    | reach 1               | 135932                | 8932.00  | 25.63     | 40.60         | 32.15         |          |          |      |          |               | 0.11         |
| North Mann   |               |                       |                       |          |           |               |               |          |          |      | 12107.13 | 0317.14       | 0.13         |
| North Man   1966   1986 |               |                       |                       |          | 25.63     | 35.01         | 28.19         | 35.08    | 0.000155 | 2.08 | 995.10   | 124 14        | 0.13         |
| North Mann   ment   1   19888   981,00   26.65   26.55   26.07 |               | reach 1               | 135888                | 3060.00  | 25.63     | 37.11         | 28.93         | 37.20    | 0.000169 |      |          |               | 0.14         |
| Sect Name   1998   1998   1998   1998   20   26   40   20   20   20   20   20   20   20  |               |                       |                       |          | 25.63     | 38.55         | 29.62         | 38.67    | 0.000201 |      |          |               | 0.15         |
| Number   1,000,   1   | North Main    |                       | 135888                | 8932.00  | 25.63     | 40.59         | 32.15         | 40.62    | 0.000109 |      |          |               | 0.11         |
| North Man  | 5 pm 1 pm     |                       | age of a sure         |          |           |               |               |          |          |      |          |               |              |
| North Man  |               |                       |                       |          |           |               | 28.53         | 34.75    | 0.000196 | 2.23 | 919.92   | 122.20        | 0.14         |
| North Man   neach 1   104000   5902.00   25.65   40.25   12.40   40.352   0.000044   224   77.79   111.55   111 |               |                       |                       |          |           |               |               |          | 0.000206 | 2.59 | 1179.88  | 129.06        | 0.15         |
| North Main Presch 1 120000. 2591 00 2597 34.00 29.00 30.00009 21.00 1982 37.56 1792.00 1982 1982 1982 1982 1982 1982 1982 1982   |               |                       |                       |          |           |               |               |          | 0.000264 | 2.69 | 2278.76  | 1419.51       | 0.17         |
| North Main   nech 1   120000   3096 00   25-57   3-5-33   2-97   3-7-40   3-00000   2-71   1975 00   177-50     | HOUT MIKE     | react t               | 134000.               | 8932.00  | 25.63     | 40.25         | 32.46         | 40.32    | 0.000245 | 2.84 | 7698.63  | 5120.35       | 0.17         |
| North Main   nech 1   120000   3096 00   25-57   3-5-33   2-97   3-7-40   3-00000   2-71   1975 00   177-50     | North Main    | mach'1                | 422000                | 2054 00  | 25.53     |               |               |          |          |      |          |               |              |
| North Man  |               | 727.7                 |                       |          |           |               |               |          |          |      |          |               | 0.14         |
| North Man   nesh 1   130000   295 10   25 07   39 08   28 15   34 08   0.000266   23 7   1374 19   49778   |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.15         |
| North Main reach 1 130780 205.00 25.57 34.00 28.15 34.00 0.000224 227 855.5 102.00 North Main reach 1 150780 4700 25.57 36.00 28.15 34.00 0.00024 273 111.04 120.00 North Main reach 1 150780 4700 25.57 37.24 28.08 27.36 0.000314 273 111.04 120.00 North Main reach 1 130780 4700 25.57 37.24 28.08 27.36 0.000314 37.00 174.677 8.00 120.00 North Main reach 1 130780 20.00 25.57 37.24 28.08 27.36 0.000314 27.27 111.04 120.00 North Main reach 1 130806 300.00 25.57 37.36 28.00 36.14 0.000244 274 1117.00 120.00 North Main reach 1 130806 300.00 25.57 37.24 28.00 26.14 0.000244 274 1117.00 120.00 North Main reach 1 130806 300.00 25.57 37.26 28.00 26.14 0.000244 274 1117.00 120.00 North Main reach 1 130806 300.00 25.57 37.28 28.00 26.14 0.000244 274 1117.00 120.00 North Main reach 1 130806 300.00 25.57 37.28 28.00 26.14 0.000244 274 1117.00 120.00 North Main reach 1 130806 300.00 25.57 37.28 28.00 26.15 37.36 0.000017 3.02 1733.29 555.25 10.00017 3.00 173.20 1733.29 555.25 10.00017 3.00 173.20 1733.29 1555.25 10.00017 3.00 173.20 1733.29 1555.25 10.00017 3.00 173.20 1733.29 1555.25 10.00017 3.00 173.20 1733.29 1555.25 10.00017 3.00 173.20 1733.29 1555.25 10.00017 3.00 1733.29 1555.25 10.00017 3.00 1733.29 1555.20 173.00 173.00 1733.29 1555.20 173.00 173.00 173.00 1733.29 1555.20 173.00 173.00 173.00 1733.29 1555.20 173.00 17 |               |                       |                       | $\sim$   |           |               |               |          |          |      |          |               | 0.17         |
| North Main   mach   1   190790   3056 00   25.57   35.02   3.02   3.02   3.00   |               |                       |                       | 0,000,00 | 23.37     | 39.08         | 32.06         | 39.52    | 0.000856 | 5.36 | 1968.96  | 1983.72       | 0.31         |
| North Main   mach   1   190790   3056 00   25.57   35.02   3.02   3.02   3.00   | North Main    | reach 1               | 130750                | 2051.00  | 25.57     | 34 00         | 28 45         | 24.00    | 0.00000  |      |          |               |              |
| North Main   reach   130750   4079 00   25.57   37.24   29.59   37.38   0.000014   3.01   178.52   178.58   1   |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.16         |
| North Main seech 1 130999 2557 37.95 22.95 37.95 20.000215 2.37 864.00 0.000675 2.37 865.00 20.000675 1.30.0000075 1.30.000075 |               |                       |                       |          |           |               |               |          |          |      |          |               | 0,16         |
| North Main neach 1 130999 2051 00 25.57 33.96 28.15 39.0 27.0 000025 2.77 1117.0 128.46 130.0 120.2 1 10.0 12.5 1  |               |                       |                       |          |           |               | $\overline{}$ |          |          |      |          |               | 0.18         |
| North Main   neach   1   30096   305600   25.57   37.20   28.50   35.44   0.000245   2.74   1117   70   128.64   10.00014 |               |                       | -                     |          | 20.07     | 57.831        | JZ. 13        | 30,40    | 0.000997 | 5.65 | 2407.19  | 1639,79       | 0.33         |
| North Main   neach   130999   3056.00   25.57   37.20   28.50   35.54   0.000024   2.74   1117.00   72.84   10.0000000000000000000000000000000000  | North Main    | reach 1               | 130696                | 2051.00  | 25.57     | 33.98         | 28.15         | 34.07    | 0.000235 | 2 27 | 964.05   | 100.01        |              |
| North Main wesh 1 190996 4078.00 25.57 37.28 29.58 37.26 0.00037 3.02 173.22 155.55 155.55 North Main wesh 1 190996 885.00 25.57 37.88 32.15 35.34 0.001041 5.74 2330.56 1572.11 North Main wesh 1 120441 4078.00 24.38 33.73 27.17 33.81 0.0001041 5.74 2330.56 1572.11 North Main wesh 1 120441 4078.00 24.38 35.76 27.54 35.80 0.000202 2.20 1773.00 1725.00 North Main wesh 1 120441 8855.00 24.38 35.76 27.54 35.80 0.000202 2.20 1773.00 1725.00 North Main wesh 1 120441 8855.00 24.38 35.76 27.54 35.80 0.000202 2.20 1773.00 1725.00 North Main wesh 1 120441 8855.00 24.38 35.76 27.54 35.80 0.000202 2.20 1773.00 1725.00 North Main wesh 1 120441 8855.00 24.38 35.76 27.54 35.80 0.000203 2.30 1773.00 1725.00 North Main wesh 1 120451 8855.00 24.38 35.70 0.000209 3.31 1713.20 0.000209 3.30 0.000209 3. | North Main    | reach 1               | 130696                |          |           |               |               |          |          |      |          |               | 0.16         |
| North Main reach 1 190996 885.00 25.57 97.88 32.15 98.34 0.001041 5.74 2300.56 1572.11  North Main reach 1 120441 92051.00 24.36 33.73 72.17 33.81 0.000183 2.21 927.85 117.30 117.30 North Main reach 1 120441 4078.00 24.36 35.76 27.94 36.69 0.000202 2.00 1173.90 1125.00 126.00 North Main reach 1 120441 4078.00 24.36 35.65 27.94 36.69 0.000202 2.00 1173.90 1125.00 126.00 North Main reach 1 120441 4078.00 24.36 35.65 27.94 36.69 0.000205 3.11 1173.00 126.00 North Main reach 1 120441 4078.00 24.36 35.65 27.94 36.60 0.000205 3.11 1173.00 126.00 North Main reach 1 120451 3008.00 24.36 35.52 27.59 36.62 0.000046 1.51 15918.30 1590.00 North Main reach 1 120455 3008.00 24.36 35.52 27.59 36.62 0.000163 2.11 97.23 121.85 North Main reach 1 120456 4078.00 24.36 35.52 27.59 36.67 0.000202 2.00 1355.02 141.95 North Main reach 1 120457 2051.00 24.36 35.52 27.59 36.67 0.000202 3.01 1355.02 141.95 North Main reach 1 120457 2051.00 24.36 33.51 28.26 36.67 0.000202 3.01 1355.02 141.95 North Main reach 1 120437 3056.00 24.36 33.51 28.26 33.54 0.000164 2.11 970.06 121.80 North Main reach 1 120437 3056.00 24.36 33.51 28.26 33.51 0.000164 2.11 970.06 121.80 North Main reach 1 120437 3056.00 24.36 33.51 28.26 33.51 0.000164 2.11 970.06 121.80 North Main reach 1 120437 3056.00 24.36 33.51 28.29 35.51 0.000164 2.21 150.01 130.01  | North Main    | reach 1               | 130898                | 4078.00  |           |               |               |          |          |      |          |               | 0.16         |
| North Main reach 1 (29441   2051.00   24.36   33.77   33.81   0.000185   2.21   927.85   117.90   125.06   North Main reach 1 (129441   3059.00   24.36   35.76   27.94   35.86   0.00022   2.66   1173.90   125.06   North Main reach 1 (129441   4078.00   24.36   35.76   27.94   35.86   0.000256   3.31   1312.90   128.93   North Main reach 1 (129441   4078.00   24.36   33.52   22.86   37.00   0.000256   3.31   1312.90   128.93   North Main reach 1 (129185   2051.00   24.36   33.52   22.86   33.59   0.000163   2.11   972.33   121.85   North Main reach 1 (129185   3096.00   24.36   33.52   27.96   35.62   0.000183   2.20   1222.95   128.95   North Main reach 1 (129185   3885.00   24.36   33.52   27.96   35.62   0.000183   2.20   1222.95   128.95   North Main reach 1 (129185   3885.00   24.36   33.51   28.85   30.67   0.000262   3.01   1355.00   141.25   North Main reach 1 (129187   3096.00   24.36   33.51   28.85   30.90   0.000182   2.20   8224.03   3949.50   North Main reach 1 (129137   2051.00   24.36   33.51   28.86   33.58   0.000163   2.11   970.66   121.80   North Main reach 1 (129137   3051.00   24.36   33.51   28.85   35.61   0.000162   2.11   970.66   121.80   North Main reach 1 (129137   3051.00   24.36   33.51   28.85   35.61   0.000162   2.20   1222.97   128.46   North Main reach 1 (129137   3051.00   24.36   33.51   28.85   35.61   0.000162   2.21   139.70   128.46   North Main reach 1 (129137   3051.00   24.36   33.51   28.25   36.61   0.000162   2.21   139.01    | North Main    | reach 1               | 130696                |          |           | $\overline{}$ |               |          |          |      |          |               | 0.19         |
| North Main   resch 1   129441   3056,00   24.36   35.76   27.79   35.68   0.000762   2.60   117.89     | 1,54.5        |                       | 35 gard 1 a           |          |           |               |               |          |          | 0.14 | 2000.00  | 1372.11       | 0.34         |
| North Main   resch 1   129441   3059,00   2.4 36   33.76   27.94   35.86   0.000202   2.80   1173-90   125.00  | North Main    | reach 1               | 129441                | 2051.00  | 24.36     | 33.73         | 27.17         | 33.81    | 0.000183 | 2.21 | 927 B5   | 117 90        | 0.14         |
| North Main reach 1 129444  | North Main    | reach 1               | 129441                | 3056.00  | 24.36     | 35.76         | 27.94         |          |          |      |          |               | 0.15         |
| North Main   resch   1   12944   8885.00   24.36   37.97   31.23   37.98   0.000084   1.51   15918.36   5580.09  | North Main    | reach 1               | 129441                | 4078.00  | 24.36     | 36.85         | 28.63         |          |          |      |          |               | 0.17         |
| North Main reach 1 128185  | North Main r  | reach 1               | 129441                | 8885.00  | 24.36     | 37.97         | 31.23         | 37.98    |          |      |          |               | 0.09         |
| North Mein   reach   1   128185   3056.00   24.36   35.52   27.59   33.62   0.000163   2.10   397.23   122.85   122.85   1000164   1000165   100   |               |                       | erthick in the        |          |           |               |               |          |          |      |          |               | 0.03         |
| North Main   reach   1   128188   3056,00   24,36   35,52   27,59   36,62   0,000183   2.30   122.2 s5   128,51   North Main   reach   1   128185   8885,00   24,36   37,79   30,77   37,82   0,000182   2.20   8224,03   3349,50   North Main   reach   1   128137   2051,00   24,36   33,51   26,85   33,58   0,000164   2.11   870,66   121,80   North Main   reach   1   128137   3056,00   24,36   35,51   27,59   36,51   0,000164   2.50   122,97   128,46   North Main   reach   1   128137   3056,00   24,36   35,51   27,59   36,51   0,000164   2.50   122,097   128,46   North Main   reach   1   128137   8885,00   24,36   35,51   27,59   36,51   0,000164   2.11   8195,01   138,50    |               |                       | -                     |          | 24.36     | 33.52         | 26.86         | 33.59    | 0.000163 | 2.11 | 972.33   | 121.85        | 0.13         |
| North Main reach 1 128188 4078.00 24.36 36.53 28.25 38.67 0.0000962 3.01 1355.02 141.25 North Main reach 1 128187 8885.00 24.36 37.79 30.77 37.82 0.000162 2.20 8224.03 3949.50 North Main reach 1 128137 3056.00 24.36 33.51 26.86 33.58 0.000164 2.11 970.66 121.80 North Main reach 1 128137 4076.00 24.36 35.51 27.56 35.51 0.000164 2.50 1220.97 128.46 North Main reach 1 128137 4076.00 24.36 36.51 28.25 38.65 0.000257 3.02 1352.01 139.01 North Main reach 1 128137 4076.00 24.36 36.51 28.25 38.65 0.000257 3.02 1352.01 139.01 North Main reach 1 128000. 2051.00 24.36 33.54 26.55 38.65 0.000257 3.02 1352.01 139.01 North Main reach 1 128000. 2051.00 24.36 33.46 26.95 33.55 0.000177 2.15 952.64 123.59 North Main reach 1 128000. 3096.00 24.36 33.46 26.95 33.55 0.000177 2.15 952.64 123.59 North Main reach 1 128000. 4078.00 24.36 33.47 28.40 36.51 0.000322 2.99 1381.86 186.75 North Main reach 1 128000. 4078.00 24.36 33.47 28.40 36.51 0.000322 2.99 1381.86 186.75 North Main reach 1 128000. 4078.00 24.36 33.775 30.95 37.78 0.000166 2.25 3835.22 3090.78 North Main reach 1 128000. 4078.00 24.36 33.75 30.95 37.78 0.000166 2.25 3835.22 3090.78 North Main reach 1 128275 2051.00 24.02 33.19 26.76 33.26 0.000166 2.25 3835.22 3090.78 North Main reach 1 128275 3059.00 24.02 33.19 26.76 33.26 0.000166 2.27 992.82 131.41 North Main reach 1 128275 3059.00 24.02 35.16 27.51 35.29 0.000166 2.27 992.82 131.41 North Main reach 1 128275 885.00 24.02 35.16 27.51 35.29 0.000166 2.07 991.42 131.38 North Main reach 1 128253 3059.00 24.02 35.15 27.51 35.29 0.000166 2.07 991.42 131.38 North Main reach 1 128253 3059.00 24.02 35.15 27.51 35.29 0.000167 2.42 1398.53 745.00 North Main reach 1 128253 3059.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 3059.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 3059.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128254 4078.00 24.02 35.15 27.51 35.24 0.000177 2.23 2509.00 2115.95 North Main reach 1 128142 3055.00 24.02 |               |                       |                       |          |           | 35.52         | 27.59         | 35.62    | 0.000183 | 2.50 |          |               | 0.14         |
| North Main reach 1 128137 2051.00 24.36 33.51 26.66 33.56 0.000164 2.11 970.66 121.80 North Main reach 1 128137 3059.00 24.36 35.51 26.59 35.61 0.000164 2.50 1220.97 1226.46 North Main reach 1 128137 4078.00 24.36 35.51 28.25 38.65 0.000257 3.02 1352.01 136.01 North Main reach 1 128137 4078.00 24.36 35.51 28.25 38.65 0.000257 3.02 1352.01 136.01 North Main reach 1 128037 8885.00 24.36 37.77 30.77 37.81 0.000164 2.21 8186.10 3347.74 North Main reach 1 128000. 2051.00 24.36 33.48 26.95 33.55 0.000277 2.15 952.64 122.59 North Main reach 1 128000. 3059.00 24.36 35.48 27.71 35.59 0.000208 2.53 1720.00 133.83 North Main reach 1 128000. 4078.00 24.36 35.48 27.71 35.59 0.000208 2.53 1720.00 138.93 North Main reach 1 128000. 4078.00 24.36 36.47 28.40 36.61 0.000322 2.99 1381.86 186.75 North Main reach 1 128000. 4078.00 24.36 37.75 30.95 37.78 0.000166 2.25 3551.22 3090.78 North Main reach 1 128200. 4078.00 24.36 37.75 30.95 37.78 0.000166 2.25 3551.22 3090.70 North Main reach 1 128275 2051.00 24.02 33.19 26.76 33.26 0.000208 2.07 992.82 131.41 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000166 2.07 992.82 131.41 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000166 2.07 992.82 131.41 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000166 2.07 991.42 13198.76 751.47 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000166 2.07 991.42 13198.76 751.47 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000166 2.07 991.42 1313.18 North Main reach 1 128253 2051.00 24.02 35.16 27.51 35.24 0.000169 2.07 991.42 1313.18 North Main reach 1 128253 4078.00 24.02 35.16 27.51 35.24 0.000169 2.07 991.42 1313.18 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000174 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000174 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000174 2.42 1395.53 745.00 North Main reach 1 128194 4078.00 24.02 35.15 27.51 35.24 0.000174 2.43 1395.50 759.95 759.95 759.95 759.95 759 |               |                       |                       |          |           |               | 28.25         | 36.67    | 0.000262 | 3.01 | 1355.02  |               | 0.17         |
| North Main   reach   1   128137   3056.00   24.38   35.51   27.59   33.61   0.000184   2.50   1220.97   128.48   | North Main    | reach 1               | 128185                | 8885.001 | 24.36     | 37.79         | 30.77         | 37.82    | 0.000182 | 2.20 | 8224.03  | 3949.50       | 0.14         |
| North Main   reach   1   128137   3056.00   24.38   35.51   27.59   33.61   0.000184   2.50   1220.97   128.48   | North Main    |                       | 100107                | 2054.00  |           |               |               |          |          |      |          |               |              |
| North Main   reach 1   128137   4078.00   24.36   33.51   28.25   36.65   0.000257   3.02   135.20   138.01  |               |                       |                       |          |           |               |               |          |          |      |          | 121.80        | 0.13         |
| North Main   reach 1   128137   8885.00   24.36   33.77   30.77   37.81   0.000164   2.21   8188.10   3347.74  |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.14         |
| North Main reach 1 128000. 2051.00 24.36 33.48 26.95 33.55 0.000177 2.15 95.264 123.59 North Main reach 1 128000. 3006.00 24.36 35.48 27.71 35.58 0.000208 2.53 1208.00 138.93 North Main reach 1 128000. 4078.00 24.36 36.47 28.40 36.61 0.000322 2.99 1361.66 186.75 North Main reach 1 128000. 8885.00 24.36 37.75 30.99 37.78 0.000166 2.25 8351.28 3909.76 North Main reach 1 1280275 2051.00 24.02 33.19 26.76 33.26 0.000166 2.07 992.82 131.41 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1396.76 751.47 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1396.76 751.47 North Main reach 1 128275 8885.00 24.02 35.16 27.51 35.25 0.000176 2.25 25.21 2274.60 North Main reach 1 128275 8885.00 24.02 35.16 27.51 35.24 0.000330 3.50 6966.53 4493.43 North Main reach 1 128253 2051.00 24.02 35.16 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 2051.00 24.02 35.16 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4079.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4079.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6829.32 4482.73 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6829.32 4482.73 North Main reach 1 128194 3056.00 24.02 37.26 30.65 37.38 0.000176 2.42 1395.53 745.00 North Main reach 1 128194 3056.00 24.02 37.26 30.65 37.38 0.000176 2.22 131 888.45 119.24 North Main reach 1 128194 4078.00 24.02 35.15 27.59 35.22 0.000176 2.23 2000.03 2115.55 North Main reach 1 128194 4078.00 24.02 35.15 27.59 35.22 0.000174 2.32 2000.03 2115.55 North Main reach 1 128194 8088.00 24.02 37.31 31.04 37.33 0.000139 2.09 12249.55 5794.60 North Main reach 1 128194 8088.00 24.02 37.31 31.04 37.33 0.000139 2.09 12249.5 5794.60 North Main reach 1 128194 8088.00 24.02 37.31 31.04 37.33 0.000139 2.09 12249.5 5794.60 North Main reach 1 128042 8050 |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.17         |
| North Main reach 1 128000. 3056.00 24.36 33.48 27.71 35.56 0.000208 2.53 1208.09 138.93 North Main reach 1 128000. 4078.00 24.36 36.47 28.40 36.61 0.000302 2.99 138.96 188.75 North Main reach 1 128000. 8885.00 24.36 37.75 30.95 37.78 0.000166 2.25 3551.28 3909.78 North Main reach 1 128275 2051.00 24.02 33.19 26.76 33.26 0.000166 2.07 992.82 131.41 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 35.06 28.18 36.16 0.000205 2.55 2625.21 2274.60 North Main reach 1 128275 4078.00 24.02 35.06 28.18 36.16 0.000203 2.55 265.24 2493.43 North Main reach 1 128253 2051.00 24.02 33.18 26.76 33.25 0.000166 2.07 991.42 1313.8 North Main reach 1 128253 2051.00 24.02 33.18 26.76 33.25 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 3058.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128194 3059.00 24.02 35.15 26.91 33.24 0.000176 2.32 2506.00 2115.95 North Main reach 1 128194 3059.00 24.02 35.15 27.59 35.22 0.000174 2.32 2506.00 2115.95 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24 | TOTAL MALITY  | 74 C                  | 120137                | 0005.00  | 24.30     | 37.77         |               | 37.81    | 0.000184 | 2.21 | 8186.10  | 3947.74       | 0.14         |
| North Main reach 1 128000. 3056.00 24.36 33.48 27.71 35.56 0.000208 2.53 1208.09 138.93 North Main reach 1 128000. 4078.00 24.36 36.47 28.40 36.61 0.000302 2.99 138.96 188.75 North Main reach 1 128000. 8885.00 24.36 37.75 30.95 37.78 0.000166 2.25 3551.28 3909.78 North Main reach 1 128275 2051.00 24.02 33.19 26.76 33.26 0.000166 2.07 992.82 131.41 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 35.06 28.18 36.16 0.000205 2.55 2625.21 2274.60 North Main reach 1 128275 4078.00 24.02 35.06 28.18 36.16 0.000203 2.55 265.24 2493.43 North Main reach 1 128253 2051.00 24.02 33.18 26.76 33.25 0.000166 2.07 991.42 1313.8 North Main reach 1 128253 2051.00 24.02 33.18 26.76 33.25 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 3058.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1398.53 745.00 North Main reach 1 128194 3059.00 24.02 35.15 26.91 33.24 0.000176 2.32 2506.00 2115.95 North Main reach 1 128194 3059.00 24.02 35.15 27.59 35.22 0.000174 2.32 2506.00 2115.95 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 8885.00 24 | North Main    | reach 1               | 128000                | 2051 00  | 24.36     | 33.48         | 26.05         | 22.55    | 0.000477 |      |          |               |              |
| North Main reach 1 128000. 4078.00 24.38 36.47 28.40 36.61 0.000322 2.99 1381.66 186.75 North Main reach 1 128000. 8885.00 24.36 37.75 30.95 37.78 0.000166 2.25 8351.28 3909.78 10.000166 1.000032 2.99 1381.66 186.75 North Main reach 1 1280275 2051.00 24.02 33.19 26.76 33.26 0.000166 2.07 992.82 131.41 North Main reach 1 1282275 3056.00 24.02 33.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 1282275 4078.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 1282275 8885.00 24.02 37.26 30.85 37.38 0.000330 3.50 6986.53 4493.43 North Main reach 1 1282273 2051.00 24.02 37.26 30.85 37.38 0.000330 3.50 6986.53 4493.43 North Main reach 1 128223 3058.00 24.02 33.16 28.78 33.25 0.000166 2.07 991.42 1313.88 North Main reach 1 128223 3058.00 24.02 33.16 28.78 33.25 0.000166 2.07 991.42 1313.85 North Main reach 1 128223 3058.00 24.02 33.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128223 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128233 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128263 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128194 2051.00 24.02 35.15 27.50 30.85 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 3058.00 24.02 35.15 27.50 35.22 0.000174 2.32 2508.00 2115.95 North Main reach 1 128194 8885.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.00 2115.95 North Main reach 1 128194 3058.00 24.02 35.15 27.59 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 4078.00 24.02 35.14 26.91 33.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 4078.00 24.02 35.14 26.91 33.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 4078.00 24.02 35.14 27.89 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128192 4078.00 24.02 35.14 27.89 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128192 8885.00 24.02 35.14 27.89 35.22 0.000174 2.3 |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.14         |
| North Main reach 1 128000. 8885.00 24.36 37.75 30.95 37.78 0.000166 2.25 8351.28 3909.78   |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.15         |
| North Main reach 1 128275 2051.00 24.02 33.19 26.76 33.26 0.000166 2.07 992.82 131.41 North Main reach 1 128275 3058.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 36.06 28.18 36.16 0.000205 2.65 2625.21 2274.60 North Main reach 1 128275 8885.00 24.02 37.26 30.85 37.38 0.000330 3.50 6966.53 4493.43 North Main reach 1 128253 2051.00 24.02 33.18 26.76 33.25 0.000166 2.07 991.42 131.38 North Main reach 1 128253 2051.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.55 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.55 745.00 North Main reach 1 128253 8885.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.55 745.00 North Main reach 1 128253 8885.00 24.02 37.26 30.65 28.18 36.16 0.000205 2.66 2614.53 2259.59 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 2051.00 24.02 35.15 27.51 33.24 0.000176 2.23 2508.03 2115.95 North Main reach 1 128194 3056.00 24.02 35.15 27.59 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 4078.00 24.02 35.15 27.89 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 4078.00 24.02 35.15 27.89 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 4078.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128142 2051.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128142 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128142 8885.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 123.95 5794.95 5794.95 North Main reach 1 128142 8885.00 24.02 33.14 25.84 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1991.55 North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1991.55 North Main rea |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.19         |
| North Main reach 1 128275 3058.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 36.06 28.18 36.18 0.000205 2.65 2855.21 2274.60 North Main reach 1 128275 8885.00 24.02 37.26 30.85 37.38 0.000330 3.50 6968.53 4493.43 North Main reach 1 128253 2051.00 24.02 33.18 28.76 33.25 0.000168 2.07 991.42 131.38 North Main reach 1 128253 3058.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 8885.00 24.02 37.26 30.65 28.18 36.16 0.000205 2.66 2614.53 2259.59 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 2051.00 24.02 37.26 30.65 37.38 0.000174 2.32 2508.03 2115.95 North Main reach 1 126194 3058.00 24.02 35.15 27.59 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 126194 8885.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 126194 8885.00 24.02 37.31 31.04 37.34 0.000177 2.08 12300.90 5803.83 North Main reach 1 126194 8885.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 126194 8885.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 128142 2051.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128142 3058.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.34 0.000128 1.86 5975.90 4462.43 North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.33 0.000128 1.86 5975.90 4462.43 North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.33 0.000128 1.86 5975.90 4462.43 North Main reach 1 128000. 3058.00 24.02 37.30 31.04 37.33 0.000128 1.86 5975.90 12249.55 5794.95 North Main reach 1 128000. 3058.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 128000. 3058.00 24.02 37.30 31.04 37.33 31.0000149 1.91 3048.01 1991.56 North Main reach 1 128000. 4078.00 24.02 37.30 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.8 |               |                       | 1,500                 |          |           |               |               | 57.75    | 5.003100 | 2.20 | 0351.28  | 397/9.78      | 0.14         |
| North Main reach 1 128275 3058.00 24.02 35.16 27.51 35.25 0.000176 2.42 1398.76 751.47 North Main reach 1 128275 4078.00 24.02 36.06 28.18 36.18 0.000205 2.65 2825.21 2274.60 North Main reach 1 128275 8885.00 24.02 37.26 30.85 37.38 0.000330 3.50 6968.53 4493.43 North Main reach 1 128253 2051.00 24.02 33.18 28.76 33.25 0.000166 2.07 991.42 131.38 North Main reach 1 128253 3058.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 2051.00 24.02 37.26 30.65 37.38 0.000212 2.31 888.45 119.24 North Main reach 1 128194 3058.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 4078.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000127 2.08 1290.09 5803.83 North Main reach 1 128194 8885.00 24.02 35.14 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000128 1.86 5996.28 4472.18 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000128 1.86 5996.28 4472.18 North Main reach 1 128142 2051.00 24.02 35.14 27.69 35.22 0.000174 2.33 2489.92 2111.44 North Main reach 1 128142 3056.00 24.02 37.30 31.04 37.34 0.000128 1.86 5975.90 4862.43 North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.33 0.000128 1.86 5975.90 4462.43 North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 128000 3056.00 24.02 37.30 31.04 37.33 30.000139 2.09 12249.55 5794.95 North Main reach 1 128000 3056.00 24.02 37.30 31.04 37.33 35.18 0.000149 1.91 3048.01 1991.56 North Main reach 1 128000 4078.00 24.02 33.14 26.91 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 128000 4078.00 24.02 37.30 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80                  | North Main    | reach 1               | 126275                | 2051.00  | 24.02     | 33.19         | 26.76         | 33.26    | 0.000166 | 2 07 | 992 82   | 131.44        | 0.13         |
| North Main reach 1 128275 4078.00 24.02 36.06 28.18 36.16 0.000205 2.65 2625.21 2274.60 North Main reach 1 128275 8885.00 24.02 37.26 30.85 37.38 0.000330 3.50 6968.53 4493.43 North Main reach 1 128253 2051.00 24.02 33.18 26.76 33.25 0.000166 2.07 991.42 131.38 North Main reach 1 128253 3056.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 8885.00 24.02 35.06 28.18 36.16 0.000205 2.66 2614.53 2259.59 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 2051.00 24.02 33.15 26.91 33.24 0.000212 2.31 888.45 119.24 North Main reach 1 128194 3056.00 24.02 33.15 26.91 33.24 0.000212 2.31 888.45 119.24 North Main reach 1 128194 4078.00 24.02 35.15 27.59 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 8885.00 24.02 35.15 27.59 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128142 3056.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.40 North Main reach 1 128142 3056.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.64 North Main reach 1 128142 4078.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.64 North Main reach 1 128142 8885.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.64 North Main reach 1 128142 8885.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.64 North Main reach 1 128142 8885.00 24.02 35.14 27.39 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56                              |               |                       | 126275                |          |           |               |               |          |          |      |          |               | 0.13         |
| North Main reach 1 128275 8885.00 24.02 37.26 30.85 37.38 0.000330 3.50 6968.53 4493.43  North Main reach 1 128253 2051.00 24.02 33.18 28.76 33.25 0.000166 2.07 991.42 131.38 10.000166 12.07 991.42 131.38 10.000166 12.07 991.42 131.38 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.53 745.00 10.000166 12.07 991.42 139.99 10.000176 12.0000176 12.0000176 12.0000176 12.0000176 12.0000176 12.0000176 12.0000176 12.00 |               | reach 1               | 126275                | 4078.00  |           |               |               |          |          |      |          |               | 0.14         |
| North Main reach 1 128253 2051.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 3056.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 36.06 28.16 36.16 0.000205 2.66 2614.53 2259.59 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 2051.00 24.02 33.15 26.91 33.24 0.000212 2.31 888.45 119.24 North Main reach 1 128194 3056.00 24.02 35.15 27.69 35.22 0.000174 2.32 2506.00 2115.95 North Main reach 1 128194 8885.00 24.02 35.15 27.69 35.22 0.000174 2.32 2506.00 2115.95 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128194 2051.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128194 2051.00 24.02 33.14 26.91 33.22 0.000174 2.33 249.09 5803.83 North Main reach 1 128142 2051.00 24.02 33.14 26.91 33.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2111.44 North Main reach 1 128142 8885.00 24.02 35.14 27.69 35.22 0.000174 2.33 249.92 2115.45 North Main reach 1 128142 8885.00 24.02 35.14 27.69 35.20 0.000174 2.33 249.95 5794.95 North Main reach 1 128000. 3056.00 24.02 35.14 27.39 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 3056.00 24.02 35.14 27.39 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.39 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.39 35.18 0.000149 1.91 3048.01 1901.56                                | North Main r  | each 1                | 126275                | 8885.00  | 24.02     | 37.26         |               |          |          |      |          |               | 0.19         |
| North Main reach 1 128253 3056.00 24.02 35.15 27.51 35.24 0.000176 2.42 1395.53 745.00 North Main reach 1 128253 4078.00 24.02 36.06 28.18 36.16 0.000205 2.68 2614.53 2259.59 North Main reach 1 128253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 North Main reach 1 128194 2051.00 24.02 33.15 26.91 33.24 0.000212 2.31 888.45 119.24 North Main reach 1 128194 3056.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 4078.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 128194 8885.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 128194 3056.00 24.02 33.14 26.91 33.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128194 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128192 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 128192 4078.00 24.02 36.09 28.39 36.12 0.000128 1.88 5975.90 4462.43 North Main reach 1 128192 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 128000. 3056.00 24.02 33.12 26.64 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 128000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  |               |                       |                       |          |           |               |               |          |          |      |          |               | - 0.19       |
| North Main         reach 1         128253         3056.00         24.02         35.15         27.51         35.24         0.000176         2.42         1395.53         745.00           North Main         reach 1         128253         4078.00         24.02         36.06         28.16         36.16         0.000205         2.66         2614.53         2259.59         9           North Main         reach 1         128253         8885.00         24.02         37.26         30.65         37.38         0.000333         3.51         6929.32         4482.73           North Main         reach 1         128194         2051.00         24.02         33.15         26.91         33.24         0.000212         2.31         888.45         119.24           North Main         reach 1         128194         3056.00         24.02         35.15         27.68         35.22         0.000174         2.32         2508.03         2115.95           North Main         reach 1         128194         4078.00         24.02         35.15         27.68         35.22         0.000174         2.32         2508.03         2115.95           North Main         reach 1         128194         8885.00         24.02         37.31   |               |                       |                       |          |           |               |               | 33.25    | 0.000166 | 2.07 | 991.42   | 131.38        | 0.13         |
| North Main reach 1 128253 4078.00 24.02 36.06 28.16 36.16 0.000205 2.66 2614.53 2259.59 North Main reach 1 126253 8885.00 24.02 37.26 30.65 37.38 0.000333 3.51 6929.32 4482.73 1.000000000000000000000000000000000000   |               |                       |                       |          |           |               |               |          | 0.000176 | 2.42 |          |               | 0.14         |
| North Main reach 1 126194 2051.00 24.02 33.15 26.91 33.24 0.000212 2.31 888.45 119.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0   |               |                       |                       |          |           |               |               |          |          | 2.66 |          | $\overline{}$ | 0.15         |
| North Main reach 1 126194 3056.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 126194 4078.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 126194 8686.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 126142 2051.00 24.02 33.14 26.91 33.22 0.000213 2.31 886.25 119.16 North Main reach 1 126142 3056.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 36.09 28.39 36.12 0.000128 1.86 5975.90 4462.43 North Main reach 1 126142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 126000. 2051.00 24.02 33.12 26.64 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 126000. 3056.00 24.02 35.14 27.36 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.36 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  | VOTEN MENN IT | Bach 1                | 126253                | 8885.00  | 24.02     | 37.26         | 30.65         | 37.38    | 0.000333 | 3.51 | 6929.32  | 4482.73       | 0.20         |
| North Main reach 1 126194 3056.00 24.02 35.15 27.69 35.22 0.000174 2.32 2508.03 2115.95 North Main reach 1 126194 4078.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 126194 8685.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 126142 2051.00 24.02 33.14 26.91 33.22 0.000213 2.31 886.25 119.16 North Main reach 1 126142 3056.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 36.09 28.39 36.12 0.000128 1.86 5975.90 4462.43 North Main reach 1 126142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 126000. 2051.00 24.02 33.12 26.64 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 126000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  | Horth Main    |                       | 400404                | 2051.00  |           |               |               |          |          |      |          |               |              |
| North Main reach 1 126194 4078.00 24.02 36.09 28.39 36.13 0.000128 1.86 5996.28 4472.18 North Main reach 1 126194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83 North Main reach 1 126142 2051.00 24.02 33.14 26.91 33.22 0.000213 2.31 886.25 119.16 North Main reach 1 126142 3056.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 35.14 27.59 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 36.09 28.39 36.12 0.000128 1.86 5975.90 4462.43 North Main reach 1 126142 8885.00 24.02 37.30 31.04 37.33 0.000128 1.86 5975.90 4462.43 North Main reach 1 126142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 126000. 2051.00 24.02 33.12 26.64 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 126000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.15         |
| North Main reach 1 128194 8885.00 24.02 37.31 31.04 37.34 0.000137 2.08 12300.90 5803.83  North Main reach 1 128142 2051.00 24.02 33.14 26.91 33.22 0.000213 2.31 886.25 119.16  North Main reach 1 128142 3056.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 211.44  North Main reach 1 128142 4078.00 24.02 35.09 28.39 36.12 0.000128 1.86 5975.90 4462.43  North Main reach 1 128142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95  North Main reach 1 128000. 2051.00 24.02 33.12 26.84 33.19 0.000174 2.13 963.31 125.50  North Main reach 1 128000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56  North Main reach 1 128000. 4078.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56  North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80   |               |                       |                       |          |           | $\overline{}$ |               |          |          |      | _        |               | 0.14         |
| North Main reach 1 126142 2051.00 24.02 33.14 26.91 33.22 0.000213 2.31 886.25 119.16 North Main reach 1 126142 3056.00 24.02 35.14 27.69 35.22 0.000174 2.33 2498.92 2111.44 North Main reach 1 126142 4078.00 24.02 36.09 28.39 36.12 0.000128 1.88 5975.90 4462.43 North Main reach 1 126142 8885.00 24.02 37.30 31.04 37.33 0.000139 2.09 12249.55 5794.95 North Main reach 1 126000, 2051.00 24.02 33.12 26.64 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 126000, 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000, 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.12         |
| North Main         reach 1         126142         3056.00         24.02         35.14         27.59         35.22         0.000174         2.33         2498.92         2111.44           North Main         reach 1         128142         4078.00         24.02         36.09         28.39         36.12         0.000128         1.88         5975.90         4462.43           North Main         reach 1         128142         8885.00         24.02         37.30         31.04         37.33         0.000139         2.09         12249.55         5794.95           North Main         reach 1         128000         2051.00         24.02         33.12         26.64         33.19         0.000174         2.13         963.31         125.50           North Main         reach 1         128000         3056.00         24.02         35.14         27.38         35.18         0.000149         1.91         3048.01         1901.56           North Main         reach 1         128000         4078.00         24.02         36.09         28.05         36.10         0.000062         1.31         8293.71         5145.80   |               | 33411                 | .20124                | 00.000   | 24.02     | 37.31         | 31.04         | 37.34    | 0.000137 | 2.08 | 12300.90 | 5803.83       | 0.12         |
| North Main         reach 1         126142         3056.00         24.02         35.14         27.59         35.22         0.000174         2.33         2498.92         2111.44           North Main         reach 1         128142         4078.00         24.02         36.09         28.39         36.12         0.000128         1.88         5975.90         4462.43           North Main         reach 1         128142         8885.00         24.02         37.30         31.04         37.33         0.000139         2.09         12249.55         5794.95           North Main         reach 1         126000         2051.00         24.02         33.12         26.64         33.19         0.000174         2.13         963.31         125.50           North Main         reach 1         128000         3056.00         24.02         35.14         27.36         35.18         0.000149         1.91         3048.01         1901.56           North Main         reach 1         128000         4078.00         24.02         36.09         28.05         36.10         0.000062         1.31         8293.71         5145.80   | North Main    | each 1                | 126142                | 2051 00  | 24.02     | 32 14         | 26.04         | 22.00    | 0.000046 |      |          |               |              |
| North Main         reach 1         128142         4078.00         24.02         36.09         28.39         36.12         0.000128         1.86         5975.90         4462.43           North Main         reach 1         128142         8885.00         24.02         37.30         31.04         37.33         0.000139         2.09         12249.55         5794.95           North Main         reach 1         128000.         2051.00         24.02         33.12         26.64         33.19         0.000174         2.13         963.31         125.50           North Main         reach 1         128000.         3056.00         24.02         35.14         27.38         35.18         0.000149         1.91         3048.01         1901.56           North Main         reach 1         128000.         4078.00         24.02         36.09         28.05         36.10         0.000062         1.31         8293.71         5145.80  |               |                       |                       | ~        |           |               |               |          |          |      |          |               | 0.15         |
| North Main         reach 1         126142         8885.00         24.02         37.30         31.04         37.33         0.000139         2.09         12249.55         5794.95           North Main         reach 1         126000.         2051.00         24.02         33.12         26.64         33.19         0.000174         2.13         963.31         125.50           North Main         reach 1         128000.         3056.00         24.02         35.14         27.38         35.18         0.000149         1.91         3048.01         1901.56           North Main         reach 1         128000.         4078.00         24.02         36.09         28.05         36.10         0.000062         1.31         8293.71         5145.80  |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.14         |
| North Main reach 1 126000. 2051.00 24.02 33.12 26.64 33.19 0.000174 2.13 963.31 125.50 North Main reach 1 126000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 126000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80   |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.12         |
| North Main reach 1 128000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  |               | 14,11                 |                       | 3000.00  | 24.02     | 57.30         | 31.04         | 37.33    | 0.000139 | 2.09 | 12249.55 | 5/94.95       | 0.12         |
| North Main reach 1 128000. 3056.00 24.02 35.14 27.38 35.18 0.000149 1.91 3048.01 1901.56 North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80  | North Main    | each 1                | 126000                | 2051.00  | 24 02     | 33 12         | 26.84         | 33.10    | 0.000474 | 242  | 000.01   |               |              |
| North Main reach 1 128000. 4078.00 24.02 36.09 28.05 36.10 0.000062 1.31 8293.71 5145.80   |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.14         |
| No. 4 10-1-  |               |                       |                       |          |           |               |               |          |          |      |          |               | 0.12         |
|  |               |                       |                       | 8885.00  | 24.02     | 37.29         | 30.57         | 37.31    | 0.000087 | 1.67 | 14709.43 | 6810.33       | 0.08         |
| 0.00 0.0001 1.01 147/9-43 0010.33  | -             |                       |                       |          |           |               | 55.57         | - 01,011 | 5.500001 |      | 14709,43 | 0010.33       | 0.10         |

HEC-RAS Plan. P 50% D (Continued) Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Rive Q Total Vel Chnl Flow Area Top Width Froude # Chl (cfs) (ft/s) (11) (ff)(ft) (11) (ft/ft) (sq ft) (11) North Main reach 1 124278 2051.00 23.63 32.76 26.53 32 85 0.000227 2 41 B52 15 112.24 0.15 North Main reach 1 12427B 3056.00 23.63 34.72 27,33 34.84 0.000251 2.83 1079 92 672.09 0.17 North Main mach 1 124278 4078.00 23.63 35,73 28.04 35.89 0.000301 3.26 1615 50 4127 R3 0.18 North Main reach 1 124276 8885.00 23.63 36.35 30.74 36.90 0.001052 6 26 2231.66 5308.98 0.35 North Main neach 1 124185 2051.00 23,63 32.74 28,49 32.83 0.000221 2.39 858.58 111 82 0.15 North Main reach 1 124185 3056.00 23.63 34.70 27.28 34.82 0.000246 2.82 1084 49 617.02 0.16 North Main reach 1 124185 4078.00 23.63 35,68 27.98 35.86 0.000324 3.39 1202.32 2171 18 0.19 North Main reach 1 124185 8885.00 23,63 36,62 30.66 36.71 0.000384 3.41 7530.B8 6382.86 0.20 orth Main reach 1 124085 2051.00 23.63 32.72 26.52 32.81 0.000227 2.42 848.78 110 61 0.15 North Main reach 1 124085 3056.00 23.63 34.68 27.31 34.80 0.000252 2.85 1071.66 767.05 0 17 North Main reach 1 124085 407B.00 23.63 35,72 28.01 35.80 0.000228 2.62 3789.14 4925 50 0.16 North Main reach 1 124085 8885.00 23.63 36,59 30.71 36.68 0.000356 3.42 7810.76 6106.26 0.20 North Main reach 1 124000 2051.00 23.63 32.71 26.52 32.79 0.000224 2.37 115 53 863.92 0.15 North Main reach 1 124000 3056.00 23 63 34.67 27.31 34.78 0.000234 2.65 1692.89 1745.7B 0 16 North Main each 1 124000 4078.00 23.63 35.72 28.03 35.77 0.000193 2.26 4230.76 4118,44 0.14 North Main each 1 124000. 8885.00 23,63 36.57 30.70 0.000370 3,13 7622.74 6014.33 0.20 North Main 122908 2051.00 23 63 reach 1 32 47 28 43 32.55 0.000220 2.31 886.14 122.09 0 15 North Main reach 1 122908 3056.00 23.63 34.41 27 19 34.52 0.000239 2.70 1131.50 1620.28 0.16 North Main reach 1 122908 4078.00 23.63 35 33 27.87 35.50 0.000315 3.25 1254.64 2681.41 0.19 North Main reach 1 122908 8885.00 23.63 36.37 30.46 36,40 0.000137 2.25 12888.17 5836,53 0.13 North Main reach 1 122857 2051.00 23.63 32.45 26.43 32 54 0.000221 2.32 884.73 122.04 0.15 North Mae reach 1 122857 3058.00 23,63 34.39 27.19 34.51 0.000240 2.70 1129.85 1604.67 0.16 North Main 122857 4078.00 23.63 35.32 27 88 35 48 0.000316 3.26 1252.39 2664.37 0.19 North Main 8885.00 reach 1 122857 23.63 36.36 30.45 36.39 0.000139 2.26 12816.90 6825.83 0.13 North Main reach 1 122000 2051.00 23.45 32.27 26.24 32.35 0.000210 2 28 808 U3 121.20 0.15 North Main reach 1 122000 3056,00 34.19 23.45 26.97 34.31 0.000230 2.68 1154 32 330.40 0.16 North Main reach 1 122000 4078.00 23.45 35.24 27.65 35.29 0.000122 2.06 5500 36 4609.76 0.12 North Main 122000 8885.00 23.45 36.21 30.1B 36.25 0.000198 2.49 10541.56 6297.42 0.15 North Main reach 1 120000 2051.00 23.41 31.83 25.93 31.92 0.000226 2.33 879.56 121 88 0.15 North Main reach 1 120000 3056.00 23.41 33.71 26.68 33.83 0.000248 2.74 1116 18 129.95 0.16 North Main 120000 4078,00 23.41 34.74 27.35 34.90 0.000316 3.26 1252 06 134.37 0.19 North Main each 1 120000 8885.00 23.41 35.85 29.89 35,88 0.000167 2.16 10355.94 5372.42 0.13 North Main mach 1 118000 2051.00 23.26 31.35 25.79 31.44 0.000254 2.42 846.43 120 70 0.16 reach 1 North Main 118000 3056,00 23.26 33.18 26.53 33.30 0.000277 2.85 1073.92 127.82 0.17 North Main reach 1 118000 4078.00 23.26 34.03 27.20 34.21 0.000376 3.44 1184.43 133 10 0.20 North Main reach 1 118000 8885.00 23.26 35.22 29.72 35.35 0.000484 3.64 6044.37 3800.76 0.23 North Main reach 1 116000 2074 00 23.27 30,80 25.71 30.90 0.000289 2.50 830.52 125.28 0.17 North Main reach 1 116000 3101.00 23.27 32.59 26.43 32.72 0.000309 2.93 1060.16 131.90 0.1B North Main reach 1 116000. 4409 00 23.27 33.37 27.22 33.47 0.000352 2.94 3559.29 4103 17 0.19 North Main reach 1 116000. 8884.00 23.27 34.61 29.44 34.65 0.000243 2.54 9587.68 5630.28 0.16 North Main reach 1 114000. 2074.00 21.89 30.33 24.47 30.41 0.000203 2.23 930.36 126.73 0.14 North Main reach 1 114000 3101.00 21.89 32.12 25.17 32.20 0.000209 2.32 2707.91 3742.83 0.15 North Main 114000 33.06 reach 1 4409.00 21.89 33.02 25.96 0.000128 6915.80 5592.40 0.12 North Main reach 1 114000 8884.00 21.89 34,35 28.16 34.37 0.000088 14903.12 6418.69 0.10 North Main 113338 2074.00 neach 1 21.88 30.18 24 53 30 27 0.000229 2.31 898.79 128.12 0.15 North Main 113338 reach 1 3101.00 21,88 31.92 25.25 32.04 0.000259 2.75 1127.14 1708.55 0.17 North Main each 1 113338 4409.00 21.88 3.57 32.70 26.05 32.90 0.000399 1234.01 4847.99 0.21 North Main reach 1 113338 8884.00 21.88 34.31 28.30 34.32 0.000059 1.29 17601.40 7068.88 0.08 North Main 113284 reach 1 2074.00 21.88 30.18 24.48 30.25 0.000216 2 25 921 37 130.47 0.15 North Main each 1 113284 3101.00 21.88 31.91 25.18 32.02 0.000246 2.69 1153 63 1130.96 0.16 North Main reach 1 13284 4409.00 21.88 25.98 32.69 32.88 0.000380 3.49 1261.73 5037.42 0.21 North Main reach 1 13284 8684.00 21.88 33.61 28.18 34.25 0.001152 6.38 1393.51 6468.97 0.36 North Main reach t 112624 2074.00 22.02 29.98 24.75 30.08 0.000313 2.60 797.10 120.59 0.18 North Main reach 1 112624 3101.00 31.68 22.02 25.53 31.83 0.000349 3.07 1010 91 180 51 0.19 North Main 112624 reach 1 4409.00 22.02 32.48 26.39 32.61 0.000371 3.22 3298.85 4287 48 0.20 North Main 112624 8884.00 reach 1 22.02 33.70 28.75 33.74 0.000278 2.43 10274.10 6489.88 0.17 North Main reach 1 112620 Inline Wei North Main reach 1 112604 2074.00 20.05 29.97 22.73 30.03 0.000150 1005.23 2.06 122.72 0.13 North Main nanch 1 112604 3101.00 20.05 31.67 23.52 31.77 0.000191 2.54 1223.77 204.91 0.15 North Main reach 1 112604 4409.00 20.05 0.000240 32.47 24.41 32.58 2.82 3528.26 4278.39 0.16

reach 1

reach 1

reach 1

112604

112000

112000

8684.00

2074 00

3101.00

20.05

20.06

20.06

33.69

29.87

31.55

26.84

23.50

33.73

29.94

31.65

0.000230

0.000152

0.000209

2.42

2.07

2.54

10466.82

1002.10

1307.00

6461.85

122.92

717.22

0.16

0.13

0.15

North Main

North Main

North Main

| River  | Reach   | River Sta   | Q Total   | Min Ch El   | W.S. Elev   | Crit W.S.  | E.G. Elev   | E.G. Slope   | Vel Chnł   | Flow Area   | Top Width  | Froude # Chl  |
|--|---|---|---|---|---|--|---|--|--|---|--|---|
|  | * ************************************                                  |   | (cfs)   | (ft)  | (ft)  | (ft)   | <u>(ft)</u>   | (ft/ft)  | (ft/s)   | (sq ft)   | (ft)   |   |
| North Main   | reach 1   | 112000  | 4409.00   | 20.06   | 32.36   | 24.37  | 32.42   | 0.000212   | 2.37   | 4723.08   | 4530.55  | 0.15  |
| North Main   | reach-1   | 112000.   | 8864.00   | 20.06   | 33.58   | 26.81  | 33.61   | 0.000172   | 2.16   | 11822.63  | 8330.51  | 0.14  |
| North Main   |   | 110000.   | 2440.90   | 40.00   | 20.47   | - 22.77  | 20.57   | 2 222222   |  |   |  |   |
| North Main   | reach 1   | 110000  | 3700.00   | 19.82<br>19.82  | 29.47<br>31.08  | 22.77<br>23.67   | 29.57<br>31.18  | 0.000223   | 2.49   | 978.39  | 120.63   | 0.15  |
| North Main   | reach 1   | 110000  | 5229.00   | 19.82   | 31.96   | 24.63  | 32.01   | 0.000200   | 2.66   | 2243.78<br>4413.67  | 1084.61  | 0.17<br>0.15  |
| North Main   | reach.1   | 110000.   | 9869.00   | 19.82   | 33.27   | 27.02  | 33.29   | 0.000148   | 2.07   | 14166.99  | 7653.00  | 0.13  |
|  | in the second of  |   |   | . ,,,,,,  |   | 27.02  |   | 0.000140   | 2.01   | 14100.03  | 1655.00  | 0.14  |
| North Main   | reach 1   | 108000.   | 2440.00   | 19.53   | 29.03   | 22.41  | 29.12   | 0.000221   | 2.48   | 985.02  | 122.16   | 0.15  |
| North Main   | reach 1   | 108000  | 3700.00   | 19.53   | 30.74   | 23.29  | 30.80   | 0.000151   | 2.25   | 4612.37   | 4850.73  | 0.13  |
| North Main   | reach 1   | 108000.   | 5229.00   | 19.53   | 31.76   | 24.23  | 31.78   | 0.000075   | 1.63   | 9741.40   | 5167.45  | 0.09  |
| North Main   | reach 1   | 108000.   | 9869.00   | 19.53   | 33.12   | 26.59  | 33.13   | 0.000067   | 1.43   | 17526.29  | 6238.49  | 0.09  |
| 16,000   | GANGETON A  | i sindhe - I  |   |   |   |  |   |  |  |   |  |   |
| North Main   | reach 1   | 107687  | 2440.00   | 19.53   | 28.95   |  | 29.05   | 0.000237   | 2.50   | 975.97  | 125.79   | 0.16  |
| North Main   | reach 1   | 107667  | 3700.00   | 19.53   | 30.57   |  | 30.72   | 0.000313   | 3.12   | 1187.00   | 135.30   | 0.19  |
| North Main   | reach 1   | 107887  | 5229.00   | 19,53   | 31.46   |  | 31.71   | 0.000473   | 3.99   | 1322.99   | 178.36   | 0.23  |
| North Main   | reach 1   | 197687  | 9869.00   | 19.53   | 32.35   | 26.58  | 33.00   | 0.001362   | 6. <b>62</b>   | 2270.54   | 4501.83  | 0.39  |
| <u> </u>   | TOTAL PERSON  | a <u>riida</u> na arras   |   |   |   |  |   |  |  |   |  |   |
| North Main   | reach 1   | 107600  | 2440.00   | 19.53   | 28.93   | <u></u>  | 29.03   | 0.000238   | 2.51   | 973.89  | 125.69   | 0.18  |
| North Main   | reach 1   | 107800  | 3700.00   | 19.53   | 30.54   |  | 30.70   | 0.000315   | 3.13   | 1183.97   | 135.17   | 0.19  |
| North Main   | reach 1   | 107800  | 5229.00   | 19.53   | 31.43   | 27.50  | 31.68   | 0.000477   | 4.00   | 1317.28   | 174.25   | 0.23  |
| North Main   | reach 1   | 107600  | 9869.00   | 19.53   | 32.15   | 26.58  | 32.89   | 0.001480   | 6.93   | 1628.81   | 2170.43  | 0.41  |
| North Main   | reach 1   | 106000.   | 2440.00   | 19.52   | 20.52   | 22.24  | 28.51   | 0.000057   | 3.65   | 040.40  | 101.50   | 0.15  |
| North Main   | reach 1   | 106000  | 3700.00   | 19.52   | 28.53<br>29.94  | 22.34  | 28.64<br>30.11  | 0.000257   | 2.60   | 940.13  | 121.56   | 0.16  |
| North Main   | reach 1   | 106000.   | 5229.00   | 19.52   | 29.94<br>30.69  | 23.22  | 30.82   | 0.000555   | 3.30   | 1121.95<br>2910.62  | 148.96<br>2350.37  | 0.21  |
| North Main   | reach 1   | 108000.   | 9869.00   | 19.52   | 31.60   | 26.49  | 31.66   |  | 2.82   | 10826.87  | 8933.80  | 0.23  |
|  |   | 1   | 0000,00   | 13.32   | 31.30   | 20.49  | 31.00   | 3.550000   | 2.02   | .4020.07  | 0503,60  | 0.19  |
| North Main   | reach 1   | 104000.   | 2440.00   | 18.67   | 28.02   | 21.89  | 28.12   | 0.000259   | 2.60   | 938.77  | 121.85   | 0.17  |
| North Main   | reach 1   | 104000.   | 3700.00   | 18.67   | 29.66   | 22.78  | 29.69   |  | 1.71   | 5262.25   | 2684.12  | 0.11  |
| North Main   | reach 1   | 104000.   | 5229.00   | 18.67   | 30.36   | 23.70  | 30.37   | 0.000109   | 1.55   | 7796.11   | 3681.41  | 0.11  |
| North Main   | reach 1   | 104000.   | 9869.00   | 18.67   | 31.16   | 25.99  | 31.18   | 0.000163   | 2.01   | 10930.38  | 4162.06  | 0.13  |
| 32 5 5 5   | Tribuy 1  |   |   |   |   |  |   |  |  |   |  |   |
| North Main   | reach 1   | 102396  | 2440.00   | 18.36   | 27.59   | 21.35  | 27,70   | 0.000268   | 2.65   | 920.07  | 119.40   | 0.17  |
| North Main   | reach 1   | 102396  | 3700.00   | 18.36   | 29.22   | 22.26  | 29,39   | 0.000347   | 3.30   | 1120.38   | 1640.16  | 0.20  |
| North Main   | reach 1   | 102396  | 5229.00   | 18.36   | 30.04   | 23.23  | 30.12   | 0.000230   | 2.78   | 6517.65   | 10223.26   | 0.16  |
| North Main   | reach 1   | 102398  | 9869.00   | 18.36   | 30.69   | 25.63  | 30.92   | 0.000167   | 2.30   | 15073.88  | 11400.00   | 0.14  |
|  | <u> </u>  | **  |   | _   |   |  |   |  |  |   |  |   |
| North Main   | reach 1   | 102314  | 2440.00   | 18.36   | 27.57   | 21.35  |   | <del></del>  | 2.86   | 917.34  | 119.30   | 0.17  |
| North Main   | reach 1   | 102314  | 3700.00   | 18.36   | 29.20   |  |   |  | 3.31   | 1117.62   | 1060.60  | 0.20  |
| North Main   | reach t   | 102314  | 5229.00   | 18.36   | 30.02   | <del></del>  |   | <del></del>  | 2.84   | 6292.83   | 9863.60  | 0.16  |
| North Main   | reach 1   | 102314  | 9889.00   | 18.36   | 30,87   | 25.63  | 30.90   | 0.000174   | 2.34   | 15835.53  | 11400.00   | 0.14  |
| North Main   | mach 1  | 102000.   | 2440.00   | 18.36   | 27.50   | 21.14  | 27,60   | 0.000000   | 2.42   | 4004 40   | 126.24   | <del> </del>  |
| North Main   | reach 1   | 102000.   | 3700.00   | 18.36   | 29.19   | <del></del>  | <del></del>   |  | 2.43   | 1004.40<br>3004.39  | 126.24<br>1549.46  | 0.15<br>0.14  |
| North Main   | reach 1   | 102000.   | 5229.00   | 18.36   | <del></del>   | <del></del>  | 30.03   | <del></del>  | 1.92   | 9780.77   | 10765.88   | 0.12  |
| North Main   | reach 1   | 102000  | 9869.00   | 18.36   |   |  |   |  | 1.72   | 18790.97  | 10776.15   | 0.11  |
| 1151 Briand  | - 105GH 7   | 1,090   | 5555.55   | 15.55   | - 50.0  | +  | 33.30   | 0.505165   |  | 10130.31  | 10170.15   | - <u>":</u> "   |
| North Main   | reach 1   | 100000.   | 2440.00   | 18.35   | 26.97   | 21.21  | 27.09   | 0.000300   | 2.72   | 897.37  | 122.34   | 0.18  |
| North Main   | reach 1   | 100000.   | 3700.00   | 18.35   | <del>+</del>  |  |   | <del></del>  | 3.37   | 1096,71   | 128.91   | 0.20  |
| North Main   | reach 1   | 100000  | 5229.00   | 18.35   | +   |  |   |  | 4.43   | 1238.72   | 702.85   | 0.28  |
| North Main   | reach 1   | 100000.   | 9869.00   | 18.35   | +   | <del></del>  | +   |  | 3.74   | 8931.55   | 10724.50   | <del></del>   |
|  |   | Take to the   |   |   |   |  |   |  |  |   |  |   |
| North Main   | reach 1   | 98000.  | 2440.00   | 17.13   |   | <del></del>  |   |  | <del></del>  | 1025.53   |  |   |
| North Main   | reach 1   | 98000.  | 3700.00   |   |   |  | · · · · · · · · · · · · · · · · · · ·                     | <del></del>  |  |   | <del></del>  |   |
| North Main   | reach 1   | 98000.  | 5229.00   |   |   |  | <del></del>   | <del></del>  | <del></del>  | <del></del>   | <del></del>  | <del></del>   |
| North Main   | reach 1   | 98000.  | 9869.00   | 17.13   | 29.71   | 24.07  | 29.75   | 0.000228   | 2.53   | 10210.35  | 5178.63  | 0,16  |
|  |   | 1000  |   | <b>_</b>  |   | <del> </del> -   | ļ <u>.        </u>  |  | <del></del>  |   | <u> </u>   | <del> </del>  |
| North Main   | reach 1   | 97100   | 2440.00   | <del></del>   | <del></del>   |  | <del></del>   |  |  |   |  |   |
| North Main   | reach 1   | 97100   | 3700.00   |   |   | <del></del>  | <del></del>   | <del></del>  | <del></del>  |   |  |   |
| North Main<br>North Main   | reach 1   | 97100<br>97100  | 5229.00<br>9869.00  | <del></del>   | <del></del> -   |  |   | <del></del>  |  |   | <del></del>  | + <u></u>   |
| HOTEL MEIN   | reach 1   | 197 100   | 3003.00   | 10./1   | Z9.56   | 24.01  | 29.54   | 0.000252   | 2.45   | 11259.06  | 7059.15  | 0.16  |
| North Main   | reach 1   | 97052   | 2440.00   | 16.79   | 26.2  | 20.02  | 26.36   | 0.000227   | 2.38   | 1020.90   | 137.94   | 0,15  |
| North Main   | reach 1   | 97052   | 3700.00   | <del></del>   |   |  | <del></del>   | <del></del>  | +  |   | <del></del>  | +   |
|  |   | 97052   | 5229.00   | <del></del>   |   |  |   | <del></del>  |  | <del> </del>  | <del></del>  |   |
| North Main   | reach 1   |   | <del></del>   |   |   |  |   |  |  |   |  |   |
| North Main   | reach 1   |   | 9869.00   | 10.45   |   |  |   |  | <del>                                     </del>     | 1   | 1  | 1   |
| North Main<br>North Main   | reach 1   | 97052   | 9869.00   | 10.73   | 1   |  | 1   |  |  | 1   | ,  |   |
| North Main   | reach 1   |   | 9869.00   |   | 26.0  | 19.74  | 26.12   | 0.000234   | 2.49   | 979.16  | 126.04   | 0.11  |
| North Main<br>North Main   |   | 97052<br>96000  |   | 16.79   |   |  |   |  | <del></del>  | <del></del>   | <del></del>  | <del></del>   |
| North Main   | reach 1   | 97052   | 2440.00   | 16.79   | 27.5  | 2 20.60  | 27.60   | 0.000304   | 2.55   | 2899.70   | 2957.44  | 0.11  |
| North Main<br>North Main<br>North Main   | reach 1<br>reach 1<br>reach 1   | 97052<br>96000.<br>96000.   | 2440.00<br>3700.00  | 16.79<br>16.79<br>16.79                                     | 27.5  | 2 20.60  | 27.60   | 0.000304<br>1 0.000064   | 2.55   | 2899.70<br>12003.81   | 2957.44<br>7319.77   | 0.11  |
| North Main<br>North Main<br>North Main   | reach 1 reach 1 reach 1 reach 1   | 97052<br>96000.<br>96000.<br>96000.                               | 2440.00<br>3700.00<br>5229.00   | 16.79<br>16.79<br>16.79                                     | 27.5  | 2 20.60  | 27.60   | 0.000304<br>1 0.000064   | 2.55   | 2899.70<br>12003.81   | 2957.44<br>7319.77   | 0.11  |
| North Main<br>North Main<br>North Main   | reach 1 reach 1 reach 1 reach 1   | 97052<br>96000.<br>96000.<br>96000.                               | 2440.00<br>3700.00<br>5229.00   | 16.79<br>16.79<br>16.79                                     | 27.5;<br>9 28.3<br>9 29.3                                 | 2 20.60<br>0 21.52<br>9 23.77                                  | 27.60<br>2 28.3<br>7 29.40                                | 0.000304<br>1 0.000064<br>0 0.000059   | 2.55<br>1 1.21<br>1 1.24                             | 2899.70<br>12003.81<br>21218.20   | 2957.44<br>7319.77<br>9564.10  | 0.11<br>0.01<br>0.01                                  |
| North Main<br>North Main<br>North Main<br>North Main<br>North Main   | reach 1 reach 1 reach 1 reach 1 reach 1                                 | 97052<br>96000.<br>96000.<br>96000.<br>98000.                     | 2440.00<br>3700.00<br>5229.00<br>9869.00                                  | 16.79<br>16.79<br>16.79<br>16.79                            | 27.5.<br>9 28.3<br>0 29.3<br>0 25.7                       | 2 20.60<br>0 21.52<br>9 23.77                                  | 27.60<br>2 28.3°<br>7 29.40<br>3 25.74                    | 0.000304<br>1 0.000064<br>0 0.000059<br>4 0.000133                           | 2.55<br>1.21<br>1.24                                 | 2899.70<br>12003.81<br>21218.20<br>3 1722.08                                    | 2957.44<br>7319.77<br>9564.10<br>3 310.60                                      | 0 0.11<br>0 0.01<br>0 0.01                            |
| North Main<br>North Main<br>North Main<br>North Main<br>North Main<br>North Main                             | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1                         | 97052<br>96000.<br>96000.<br>96000.<br>96000.                     | 2440.00<br>3700.00<br>5229.00<br>9869.00                                  | 16.79<br>16.79<br>16.79<br>16.79                            | 27.5.<br>28.3<br>29.3<br>29.3<br>29.3<br>25.7<br>20. 25.7 | 2 20.60<br>21.52<br>9 23.77<br>0 19.60<br>0 20.5               | 27.60<br>28.31<br>29.40<br>3 25.74<br>1 27.15             | 0.000304<br>1 0.00065<br>0 0.00059<br>4 0.000133<br>5 0.000158<br>9 0.000170 | 2.55<br>1.24<br>1.24<br>1.86<br>3 2.24               | 2899.70<br>12003.81<br>21218.20<br>1722.08<br>2575.72<br>5112.33                | 2957.44<br>7319.77<br>9564.10<br>310.60<br>1618.63<br>3731.96                  | 0.11<br>7 0.00<br>0.00<br>0 0.11<br>5 0.11            |
| North Main North Main North Main North Main North Main North Main North Main                                 | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1         | 97052<br>96000.<br>96000.<br>96000.<br>96000.<br>94000.           | 2440.00<br>3700.00<br>5229.00<br>9889.00<br>2440.00<br>3700.00            | 16.79<br>16.79<br>16.79<br>16.89<br>16.80                   | 27.5<br>28.3<br>29.3<br>29.3<br>25.7<br>27.1<br>28.0      | 2 20,66<br>0 21,52<br>0 23,77<br>0 19,66<br>0 20,55<br>5 21,43 | 27.60<br>2 28.3<br>7 29.40<br>3 25.7<br>1 27.1<br>3 28.00 | 0.000304<br>1 0.00065<br>0 0.00059<br>4 0.000133<br>5 0.000158<br>9 0.000170 | 2.55<br>1.24<br>1.24<br>1.86<br>3 2.24               | 2899.70<br>12003.81<br>21218.20<br>1722.08<br>2575.72<br>5112.33                | 2957.44<br>7319.77<br>9564.10<br>310.60<br>1618.63<br>3731.96                  | 0.11<br>7 0.00<br>0.00<br>0 0.11<br>5 0.11            |
| North Main<br>North Main<br>North Main<br>North Main<br>North Main<br>North Main<br>North Main<br>North Main | reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 reach 1 | 97052<br>96000.<br>96000.<br>96000.<br>96000.<br>94000.<br>94000. | 2440.00<br>3700.00<br>5229.00<br>9889.00<br>2440.00<br>3700.00<br>5229.00 | 16.79<br>16.79<br>16.79<br>16.79<br>16.80<br>16.80<br>16.80 | 27.5<br>28.3<br>29.3<br>29.3<br>25.7<br>27.1<br>28.0      | 2 20,66<br>0 21,52<br>0 23,77<br>0 19,66<br>0 20,55<br>5 21,43 | 27.60<br>2 28.3<br>7 29.40<br>3 25.7<br>1 27.1<br>3 28.00 | 0.000304<br>0.000064<br>0.000059<br>4 0.000133<br>5 0.000158<br>9 0.000173   | 2.55<br>1.21<br>1.24<br>1.86<br>1.86<br>2.22<br>2.27 | 2899.70<br>12003.81<br>21218.20<br>1722.08<br>2575.72<br>5 112.33<br>1 16340.53 | 2957.44<br>7319.77<br>9564.10<br>3 310.60<br>2 1618.63<br>3731.96<br>3 9109.36 | 0.11<br>7 0.00<br>0 0.00<br>0 0.11<br>5 0.11<br>6 0.1 |

HEC-RAS Plan. P. 50% D. (Continued) River R River Sta Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vel Chril Flow Area Top Width Froude # Chl (cfs) (fvft) (11)(ft/s) (sq ft) North Main mach t 92434 3700.00 16.79 26.62 20.27 26.79 0.000365 3.30 1122 09 163 68 0.20 North Main neach 1 92434 5229.00 16.79 27.43 21.15 27.67 0.000501 4.05 1959.85 2022.29 D.24 North Main reach 1 92434 9869.00 16.79 28.69 23.36 28.90 0.000548 4.51 6408.31 5012.94 0.25 North Main reach 1 92376 2440.00 16.79 25.35 19.44 25.45 0.000256 2.55 956 87 127.00 0.16 North Main reach 1 92376 3700.00 16.79 26.60 20.28 26.77 0.000368 3.31 1118.57 152.12 0.20 North Main reach 1 92376 5229.00 16.79 27.39 21.16 27.64 0.000513 4 08 1889 27 1938.17 0.24 North Main reach 1 92376 9869.00 16.79 28.63 23.36 0.000587 28.86 4.65 6106.57 4868.29 0.26 North Main reach f 92000 2440.00 16.79 25.24 19.46 25,35 0.000278 2.64 923.05 122.95 0.17 North Main 92000 reach 1 3700.00 16.79 26.44 20.30 26.62 0.000406 3.45 1076.17 203.29 0.21 North Main 92000 5229.00 16.79 27.15 21.20 27.43 0.000590 4.33 1686.43 1626.86 0.25 North Main reach 1 92000 9869.00 16.79 28.25 23.44 28.56 0.000919 5.31 4734.60 3908.70 0.32 North Main reach 1 91033 2440.00 16.48 24.93 19.54 25.05 0.000331 2.77 879.48 125.63 0.18 North Main reach t 91033 3700.00 16.48 25.99 20.40 26.19 0.000490 3.62 1183 76 1352 50 0.23 North Main reach 1 91033 5229.00 16.48 26,61 21.31 25.84 0.000594 4.14 2527.65 2755.05 0.25 North Main each 1 91033 16.48 27.46 23.55 27.71 0.000807 5.05 5530.48 4283.40 0.30 North Main reach 1 91030 Infine Weir North Main reach 1 91000 2440.00 14.79 25.01 24.93 17.78 0.000192 2.36 1035.39 124.94 0.14 North Main reach 1 91000 3700.00 14.79 25.98 18.70 26.13 0.000301 3.12 1500.57 1901.71 0.18 North Main reach 1 91000 5229.00 14.79 26.61 19.66 0.000382 26.77 3.52 3430.39 4152.28 0.20 North Main each 1 91000 9869.00 14.79 27.48 22.07 27.61 0.000451 4.08 8181.64 6980.93 0.23 North Main each 1 90000 2440.00 14.79 24.78 17.55 24.84 0.000144 2.09 1653,74 817.49 D.12 reach 1 North Main 90000 3700.00 14.79 25.83 18.41 25.89 0.000153 2.28 4140.25 3653.45 0.13 North Main reach 1 90000 5229.00 14.79 26,46 19.32 26.51 0.000150 2.33 6834.34 4915.36 0.13 reach 1 North Main 90000 9869.00 14.79 27.19 21.61 27.24 0.000260 2.69 10981.89 6425.69 0.17 North Main reach 1 88000 2440.00 14.78 24.45 17,60 24.52 0.000173 2.23 1689.78 1461.50 0.14 North Main reach f 88000 3700.00 14.78 25.63 18.47 25.65 D.000091 1.72 6609.00 5038.64 0.10 North Main reach 1 88000 5229.00 14.78 0.000086 26.27 19.40 26.28 1.59 10302.74 6511.32 0.10 North Main reach 1 88000 9869.00 14.78 26.80 21.72 26.82 0.000169 2.04 14086.58 7749.21 0.13 North Main reach 1 87169 2440.00 14.78 24.26 17.69 24.36 0.000225 2.48 983.28 1517.10 0.16 North Main reach 1 87169 3700.00 14.78 25.33 18.58 25.50 0.000354 3.31 1117.91 5503.76 0.20 North Main reach 1 87169 14.78 5229.00 25.80 19,52 26.10 0.000605 4.44 1177.38 6339.45 0.26 North Main 87169 reach 1 9869.00 14.78 21.86 26.68 0.000151 2.34 14262.29 7864.99 0.13 North Main reach 1 87084 2440.00 14.78 24.24 17.69 24.34 0.000226 2.49 980.84 1508.24 0 16 North Main reach 1 B7084 3700.00 14.78 25.30 18.58 25.47 0.000358 3.32 1113.86 5446.B4 0.20 North Main reach 1 87084 14.78 5229.00 25.74 19.52 26.05 0.000617 4.47 1170.13 6238.17 0.26 North Main each 1 87084 14.78 9869.00 26.63 21.86 26.66 2.37 0.000155 14088.57 7825.63 0.13 North Main reach 1 86000 2440.00 14.31 24.02 17.21 24.11 0.000199 2.36 1034.43 127.87 0.15 North Main mach 1 86000 3700.00 14.31 25.18 18.09 25.21 0.000130 1.88 5126.76 3680.68 0.12 North Main reach 1 86000 5229 00 14.31 25.65 19.03 25.68 0.000145 2.02 7108.18 4794.64 0.12 North Main reach t 86000. 9869.00 14.31 26.44 21.31 26.47 0.000195 2.41 11686.81 6800.39 0.15 North Main reach 1 84000 2493 00 13.58 23.68 15.38 23.74 0.000169 2.27 1099.20 126.57 0.14 North Main reach 1 84000. 3742 00 13.56 24.94 17.23 24.98 0.000103 1.90 4890.90 2946.08 0.11 North Main reach 1 84000. 5283.00 13.56 25,39 18.14 25.43 0.000114 8695.24 1.96 9320.45 0.11 North Main reach f 84000 10088.00 13.56 26.11 20.49 26.13 0.000143 2.06 15441.07 9604.00 0.12 North Main reach 1 82000 2493 00 12 94 23.32 15.89 23.40 1074.21 0.000175 2.32 122.70 0.14 North Main reach 1 82000. 3742.00 12.94 24.69 16.78 24.74 0.000132 2.12 4773.25 4222.83 0.12 North Main reach 1 B2000 5283 00 12.94 25.05 17.75 25.11 0.000224 2.50 6661.41 10716.73 0.15 North Main reach 1 82000. 10088.00 12.94 25.74 20,17 25.77 0.000228 2.28 14139.33 10797.77 0.15 81854 North Main reach 1 2493.00 12.94 23 31 15.79 23.38 0.000153 2.15 1161.58 136.12 0.13 North Main reach 1 81854 3742.00 12.94 24.59 16,64 24.71 0.000227 2.79 1340.06 4414.54 0.16 North Main reach 1 81854 5283.00 12 94 25.01 17.58 25.08 0.000186 2.57 6943.46 11286.84 0.15 North Main reach 1 81854 10088.00 12.94 25.71 19.87 25.75 0.000178 2.60 14875.90 11347.69 0.14 North Main 81817 reach 1 2493.00 12.94 23.30 15.79 23 3B 0.000153 2.15 1160.78 136.09 0.13 North Main reach 1 81817 3742.00 12.94 24.58 16.65 24.70 0.000228 2.80 1338.79 4264.61 0.16 North Main reach 1 81817 5283.00 12.94 25.00 17.57 25.07 0.000188 2.59 6853.71 11286.47 0.15 North Main reach 1 81817 10088.00 12.94 25.69 19.87 25.74 0.000183 2.63 14706.45 11344.90 0.15 80000. 12.93 2.40 North Main reach 1 2493.00 22.97 15.85 23.06 0.000195 1036.72 122.10 0.15 North Main reach 1 80000 3742.00 12.93 24 15 16 74 24.27 0.000250 2.86 2693.47 4498.89 0.17 5283.00 3.46 North Main reach 1 80000 12.93 24.42 17 69 24.56 0.000413 4121.68 6431.15 0.21 North Main reach 1 80000 10088.00 12.93 25.16 20.12 25.25 0.000410 3.55 10824.53 10718.78 0.21 North Main reach 1 78000 2493.00 12.95 22.51 15.93 22.62 0.000253 2.57 1000.15 436.35 0.16 North Main reach 1 78000. 3742.00 12.95 23.56 16.83 23.67 0.000375 2.84 2663.00 3239.03 0.19 North Main reach t 78000. 5283.00 12.95 23.90 17.81 23.94 0.000219 2.17 7439.61 7120.93 0.15

| River        | Reach                                   | River Sta                             | Q Total  | Min Ch El   | W.S. Elev   | Crit W.S.   | E.G. Elev   | E.G. Slope  | Vel Chnl     | Flow Area | Top Width                               | Froude # Ch  |
|--------------|---|---------------------------------------|----------|-------------|-------------|-------------|-------------|-------------|--------------|-----------|---|--------------|
|              | 1 1 2 2 1 N                             | 百万路 至州                                | (cfs)    | (ft)        | (ft)        | (ft)        | (fl)        | (fl/ft)     | (ft/s)       | (sq ft)   | (ft)                                    |              |
| North Main   | reach 1                                 | 78000.                                | 10088.00 | 12.95       | 24.55       | 20.27       | 24.59       | 0.000260    | 2.50         | 12811.82  | 9293.08                                 |              |
|              | 1 Samuel                                | - L., \$, 77 1                        |          |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 76000.                                | 2493.00  | 12.94       | 22.01       | 15.7B       | 22.12       | 0.000252    | 2.59         | 962.88    | 123.10                                  |              |
| North Main   | reach 1                                 | 78000                                 | 3742.00  | 12.94       | 22.99       | 16.64       | 23.06       | 0.000244    | 2.48         | 4281.07   | 5793.42                                 |              |
| North Main   | reach t                                 | 78000                                 | 5283.00  | 12.94       | 23.26       | 17.58       | 23.33       | 0.000309    | 2.78         | 5933.74   | 6489.32                                 |              |
| North Main   | reach: 1                                | 76000.                                | 10088.00 | 12.94       | 23.90       | 19,94       | 23.95       | 0.000389    | 3.05         | 10564.62  | 8061.21                                 |              |
|              | 7 8 A A A A A A A A A A A A A A A A A A | :                                     |          |             |             |             |             |             |              |           |   |              |
| North Main   | reach t                                 | 74000.                                | 2493.00  | 11.88       | 21.52       | 14.93       | 21.63       | 0.000240    | 2.55         | 976.94    | 123.81                                  |              |
| North Main   | reach 1                                 | 74000.                                | 3742.00  | 11.86       | 22.50       | 15.85       | 22.57       | 0.000241    | 2.45         | 4568.04   | 6866.36                                 |              |
| North Main   | reach 1.                                | 74000                                 | 5283.00  | 11.86       | 22.82       | 16.83       | 22.85       | 0.000186    | 2.20         | 8890.13   | 9598.38                                 |              |
| North Main   | reach 1                                 | 74000.                                | 10088.00 | 11.86       | 23.28       | 19 25       | 23.32       |             | 2.66         |           | 9606.56                                 |              |
| TOTOL MAIN   | Part 12 15 15 1                         |                                       | 10000.00 | ,,,,,,      |             |             |             | 1           |              |           |   |              |
| North Main   | 207. 78.97.                             | 72000.                                | 2493.00  | 10.58       | 21.12       | 13.69       | 21.19       | 0.000195    | 2.24         | 1110.52   | 145.96                                  |              |
| North Main   | reach 1                                 | 72000                                 | 3742.00  | 10.58       | 22.00       | 14.80       | 22.08       |             | 2.48         | 4026.65   | 8008.62                                 |              |
| North Main   | reach 1                                 | 72000.                                | 5283.00  | 10.58       | 22.40       | 15.55       | 22.45       |             | 2.39         | 7194.73   | 8014.04                                 |              |
|              |   | 72000.                                | 10088.00 | 10.58       | 23.04       | 17.92       | 23.05       |             | 1.51         | 20301.87  | 10762.41                                |              |
| North Main   | reach 1                                 | 12000.                                | 10086.00 | 10.36       | 23.04       | 17.52       | 25.00       | 0.00000     | 1.51         | 20001.07  | 10702.71                                | -            |
|              | *************************************** | *****                                 | 2402.00  | 40.40       | 20.72       | 13.44       | 20.81       | 0.000187    | 2.36         | 1056.03   | 144.80                                  | <del> </del> |
| North Main   | reach 1                                 | 70000.                                | 2493.00  | 10.48       |             |             |             |             | 2.81         | 3047.20   | 4824.36                                 |              |
| North Main   | reach 1                                 | 70000.                                | 3742.00  | 10.48       |             |             | 21.55       |             |              | 4883.88   | 6055.78                                 |              |
| North Main   | reach 1                                 | 70000.                                | 5283.00  | 10.48       |             | 15.31       | 21.88       |             | 3.09         |           |   | <del></del>  |
| North Main   | reach 1                                 | 70000.                                | 10088.00 | 10.48       | 22.73       | 17.78       | 22.78       | 0.000271    | 2.73         | 11341.83  | 6862.71                                 | <del> </del> |
|              | at at a tage                            |                                       |          |             | -           |             |             | 0.000404    |              | *****     |   |              |
| North Main   | reach 1                                 | 69760                                 | 2493.00  | 10.48       | <del></del> | 13.35       |             |             | 2.16         |           | 3084.92                                 |              |
| North Main   | reach 1                                 | 69760                                 | 3742.00  | 10.48       |             |             |             |             |              |           | 7038.28                                 | <del></del>  |
| North Main   | reach 1                                 | 69760                                 | 5283.00  | 10.48       |             |             |             |             |              |           |   | ļ            |
| North Main   | reach 1                                 | 69760                                 | 10088.00 | 10.48       | 22.73       | 17.44       | 22.74       | 0.000084    | 1.72         | 18992.28  | 8938.61                                 | <u> </u>     |
|              | the state of the state of               | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |          |             | 1           |             | <u> </u>    |             |              |           |   |              |
| North Main   | reach 1                                 | 69893                                 | 2493.00  | 10.48       | 20.69       | 13.35       | 20.76       | 0.000161    | 2.17         |           | 3064.24                                 |              |
| North Main   | reach 1                                 | 69693                                 | 3742.00  | 10.48       | 21.32       | 14.20       | 21.46       | 0.000293    | 3.02         |           |   |              |
| North Main   | reach 1                                 | 69693                                 | 5283.00  | 10.48       | 21.78       | 15.10       | 21.80       | 0.000094    | 1.75         | 10651.17  | 8374.47                                 |              |
| North Main   | reach 1                                 | 69693                                 | 10088.00 | 10.48       | 22.72       | 17.44       | 22.73       | 0.000084    | 1.73         | 18941.65  | 8937.30                                 | <u> </u>     |
|              |   |                                       |          |             |             |             |             | T           |              |           |   |              |
| North Main   | reach 1                                 | 68373                                 | 2790.00  | 10.48       | 20.62       | 13.61       | 20.6        | 0.000051    | 1.08         | 8099.56   | 7242.84                                 |              |
| North Main   | reach 1                                 | 88373                                 | 4154.00  |             |             | 14.48       | 21.3        | 0.000029    | 0.85         | 15720.08  | 10762.97                                |              |
| North Mein   | reach 1                                 | 68373                                 | 5739.00  | 10.48       | 21.72       | 15.36       | 21.7        | 0.000029    | 0.88         | 19946.44  | 10779.31                                | 1            |
| North Main   | reach 1                                 | 68373                                 | 11350.00 |             | +           |             | 22.6        | 0.000034    | 1.03         | 30006.38  | 10815.15                                | 5            |
| THOUSE HERE  | 7.334.5 5 6 6                           | 00070                                 |          | 1           |             | -           |             |             | 1            |           |   |              |
| North Main   | reach 1                                 | 67000                                 | 2790.00  | 10.28       | 20.46       | 13,47       | 20.5        | 0.000129    | 1.96         | 4379.75   | 6328.33                                 | 3            |
|              |   | 67000                                 | 4154.00  |             | +           | <del></del> |             |             |              |           |   |              |
| North Main   | reach 1                                 | 67000                                 | 5739.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach f                                 |                                       |          |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 67000                                 | 11350.00 | 10.28       | 22.50       | 10.1        | 22.9        | 0.0000      | 1.5          | 20110.40  | 3.55.55                                 | <del></del>  |
|              |   |                                       | 0700.00  |             | 20.24       | 13.63       | 3 20.3      | 4 0.000238  | 2.57         | 2292.85   | 5103.70                                 |              |
| North Main   | reach 1                                 | 66000.                                | 2790.00  | <del></del> |             | <del></del> |             |             |              | _         |   |              |
| North Main   | reach 1                                 | 88000.                                | 4154.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 66000.                                | 5739.00  | <del></del> |             |             | <del></del> |             |              |           |   |              |
| North Main   | reach:1                                 | 68000.                                | 11350.00 | 10.28       | 3 22,50     | 18.30       | 22.5        | 0.00009     |              | 13/20.05  | 0103.14                                 | <del></del>  |
|              | 22.00%                                  |                                       | -        |             |             |             |             | 8 0.00030   | 2 9          | 965.04    | 2525.3                                  | -            |
| North Mein   | reach 1                                 | 65430                                 | 2790.00  |             | +           |             |             | +           |              | +         |   | <del></del>  |
| North Main   | reach 1                                 | 85430                                 | 4154.00  | <del></del> |             | <del></del> |             |             | $\leftarrow$ |           |   |              |
| North Main   | reach 1                                 | 65430                                 | 5739.00  | <del></del> |             | 4           |             |             |              |           |   |              |
| North Main   | reach 1                                 | 65430                                 | 11350.00 | 10.2        | 8 22.46     | 18.3        | 5 22.4      | 6 0.00007   | 5 1.4        | 7 24153.9 | 11600.0                                 | <u> </u>     |
| 11.20        |   |                                       | <u> </u> | <u> </u>    |             |             |             |             |              |           | 4700.0                                  |              |
| North Main   | reach 1                                 | 65374                                 | 2790.00  |             |             |             | +           |             |              |           |   |              |
| North Main   | reach 1                                 | 85374                                 | 4154.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 85374                                 | 5739.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 65374                                 | 11350.00 | 10.2        | 8 22.4      | 18.3        | 5 22.4      | 6 0.00007   | 6 1.5        | 1 24099,1 | 2 11800.0                               | <u> </u>     |
|              |   | 3.2                                   |          |             | <del></del> |             |             | <del></del> |              |           |   | <del>_</del> |
| North Main   | reach 1                                 | 64000.                                | 2790.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach-1                                 | 64000.                                | 4154.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 64000.                                | 5739.00  |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 64000.                                | 11350.0  | 10.1        | 8 22.3      | 7 17.6      | 6 22.3      | 0.00005     | 4 1.2        | 4 27001.9 | 7 11636.5                               | 6            |
|              |   |                                       |          |             |             | 1           |             |             |              |           |   |              |
| North Main   | reach 1                                 | 82000.                                | 2790.0   | 10.0        |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 82000.                                | 4154.0   | 0 10.0      | 3 20.6      |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 82000.                                | 5739.0   | 0 10.0      | 3 21.2      |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 62000.                                | 11350.0  | 0 10.0      | 3 22.1      | 9 17.6      | 22.         | 21 0.00013  | 1.9          | 5 16800.7 | 3 7565.4                                | 15           |
|              |   |                                       | T        |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 60000.                                | 2790.0   | 0 9.5       | 9 18.0      | 4 12.7      | 2 18.       | 19 0.00041  | 2 3.1        |           |   |              |
| North Main   | reach 1                                 | 80000.                                | 4154.0   |             |             |             |             |             | 17 3.1       | 2563.0    | 0 3942.3                                | 39           |
| North Main   | reach 1                                 | 60000.                                | 5739.0   |             |             |             |             |             |              |           |   | 52           |
| North Main   | reach 1                                 | 60000.                                | 11350.0  |             |             |             |             | ~~~         |              |           |   |              |
| NOITH MAIN   | reach t                                 | 3000                                  | 11350.0  |             |             | ****        | <del></del> |             | 1            | 1         | 1                                       |              |
| North State  |   | 58000.                                | 2790.0   | 0 9.3       | 33 16.9     | 11 12.7     | 73 17.      | 13 0.00069  | 3.7          | 79 736.1  | 8 115.                                  | 34           |
| North Main   | reach 1                                 |                                       | 4154.0   |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 58000.                                |          |             |             |             |             |             | <del></del>  |           |   |              |
| North Main   | reach 1                                 | 58000.                                | 5739.0   |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 58000.                                | 11350.0  | Nu 9.5      | 21.5        |             |             | 0,000       |              | 23001.    | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1            |
| 111010111111 |   |                                       |          |             |             |             |             |             |              |           |   |              |
| North Main   | reach 1                                 | 57448                                 | 2790.0   | 9.3         | 38 18.4     | 12.         | 70) 16.     | 72 0.0008   | 27 3.        | 941 708.7 | 72 119.                                 | 76           |

HFC-RAS Plan- P 50% D (Continued) Top Width Froude # Chl Min Ch El W.S. Elev E.G. Slope Vel Chril Flow Area Crit W.S. E.G. Elev Q Total Reach (sq fl) (cfs) (ft) (ft) (ft) (fl/ft) (ft/s) (ff) (ft) 0.22 0.00041 3.62 20.53 57448 5739.00 9.38 20.37 14.52 North Main reach 1 0.000308 8818.75 0.19 21.57 3.29 11833.09 11350.00 9.38 21.50 17.13 each 1 5744B North Main 0.000845 703.77 119.57 n 29 16.68 North Main 57404 2790.00 9.38 16.43 12.70 970.88 129.55 0.28 0.000718 4.28 18.86 North Main 4154.00 9.38 18.58 13,61 57404 3.68 3934.88 4851.67 0.22 0.000434 20.51 14.52 reach 1 57404 5739 00 9.38 20.34 North Main 11648.33 8746.89 0.19 0.000317 3.34 North Main 11350.00 9.38 21.48 17,13 21.55 57404 3.61 773.22 138.78 0.27 0.000749 16.04 12.48 16.24 58867 2790.00 9.80 North Main reach 1 3.79 1095.60 149 19 0.25 18.50 0.000576 18.28 13.26 North Main each 1 56867 4154.00 9.80 14.06 20.22 0.000591 4.25 1351.02 157.77 0.26 North Mein 56867 5739 00 9.80 19.94 reach 1 21.31 0.000609 4.41 5870.11 2946.39 0.26 16.39 6867 11350.00 9.80 21.12 North Main each 1 North Main each 1 56865 Inline Wei 0.17 141.15 16.13 0.000264 2.61 1068.13 10,09 North Main 56857 2790.00 7.31 16.03 10.90 18.41 0.000264 2.98 1395.54 151.06 0.17 North Main reach 1 7.31 18.27 58857 4154.00 0.19 0.000307 3 47 1653.47 158.48 11.73 20.12 North Main 7.31 19.94 ceart 1 56857 5739.00 14.13 21.29 0.000401 4.17 6148.27 2915.97 0.22 7.31 reach 1 56857 11350.00 21.10 North Main 1130.77 141.36 0.15 9.52 15.92 0.000220 2.47 6.74 15.63 North Main 2790.00 each 1 56D00. 0.16 218.07 10.31 18.19 0.000227 2.85 1468.17 6.74 18.07 North Main 4154.00 each 1 56000. 2021.25 0.17 11.12 19.88 0.000254 3.26 394.23 6.74 19.72 5739.00 North Main reach 1 56000 2713.90 0.17 21.00 0.000242 3.13 8028.01 6.74 20.91 13.50 North Main 11350.00 reach 1 56000 1220.47 146.75 0.14 2.29 6.00 15.44 8.74 15.52 0.000180 64000 2790.00 North Main reach 1 1553.69 165,74 0.15 2.67 0.000212 4154.00 6.00 17,64 9.50 17.75 54000. North Main reach 1 0.18 1827.24 190.58 3.14 6.00 19.19 10.29 19.34 0.000284 5739.00 54000 North Main reach 1 0.13 11817.09 4495.17 11350.00 20.56 12.62 20.61 0.000152 2.47 6.00 54000 North Main reach 1 1223.21 151.08 0 14 0.000185 2.29 15.21 2798.00 5.83 15.13 8.48 52275 North Main reach 1 0.000219 2.65 1565.70 175.13 0.16 17.38 4150.00 5.83 17.27 9.25 North Main reach 1 52275 1830.50 209.48 0.19 18.83 0.000313 5728.00 5.83 18.68 10.05 52275 North Main reach 1 12997.57 10300.50 0.13 0.000139 2.18 North Main reach 1 52275 10810.00 5.83 20,33 12.18 20.36 1064.47 2.53 134.57 0.16 0.00025 15.06 51585 2798.00 5.69 14.95 8.60 reach 1 North Main 3.05 1358.61 143.24 0.17 0.000271 17.21 51585 4150.00 5.69 17.06 9.45 North Main reach 1 0.000392 3.68 1556.15 162 67 0.21 18.58 5728.00 5 69 18 37 10.33 51585 North Main reach 1 8753.78 0.16 0.000223 3.09 11929.35 20.26 10810.00 5.69 20.18 12.66 51585 North Main reach 1 2.63 1062.12 134.50 0.17 15.04 0.000255 14.93 51519 2798.00 5 69 8.60 reach 1 North Main 3.06 1355.94 143 18 0.18 17.19 0.000272 North Main 51519 4150.00 5.69 17.05 9.45 reach 1 3.69 1551.69 162.67 0.21 0.000396 18.56 51519 5728.00 5.69 18.34 10.33 North Main reach 1 0.000226 3,11 11783.36 8691.85 0.16 20.25 10810.00 5.69 20.17 12.66 reach 1 51519 North Main 148.21 0.16 0.000229 2.46 1137.05 14.57 8.34 North Main 50000 2798.00 5.58 reach 1 197.55 0.18 16.62 9.14 16.74 0.000313 2.82 1471.84 50000 4150.00 5.58 reach 1 North Main 1415.82 0.13 9.96 18.16 0.000153 2 18 4627.78 18.11 5.58 50000 5728.00 North Main reach 1 0.000061 1.54 18139.73 5871.30 0.08 12.14 20.07 5.58 20.06 50000 10810.00 North Main each 1 161.38 0.15 1219.16 14.23 0.000204 2.30 14.15 7.64 4.89 North Main 48000 2798.00 each 1 201.91 0.17 1566.86 16.16 0.000262 2.65 16.05 8.40 reach 1 48000 4150.00 4.89 North Main 919.18 0.13 3978.95 17.86 0.000146 2.20 9.19 5728,00 4.89 each 1 48000 North Main 0.10 17684.68 8608.42 11.29 19.93 0.000086 1.89 4.89 19.90 neach 1 48000 10810.00 North Main 138.79 0.17 2.69 1038.58 4.94 13,93 7.93 14.05 0.000284 47232 2798.00 North Main reach 1 0.19 3,18 1304.3 149.44 15.78 8 80 15.93 0.000324 4.94 4150.00 reach 1 North Main 47232 170.64 0.21 1568.59 0.000400 3,65 4,94 17.45 9 65 17.66 reach 1 5728.00 47232 North Main 6005.11 0.14 0.000159 2,40 12644.90 19,60 11.97 19.84 4.94 10810.00 North Main reach 1 47232 2.55 1152.73 175.06 0.16 0.000257 13.71 2798.00 4.90 13.61 7.72 46000 North Main reach 1 589.50 0.17 2.93 1720,35 0.000272 4150.00 4.90 15 43 B 52 15.56 46000 North Main reach 1 2980,15 809.76 0.16 2.91 0.000227 17.26 5728.00 4.90 17.15 9.37 46000 North Main reach 1 17560.90 75B1.55 0.10 1.78 0.000077 46000 10810.00 4.90 19.68 11.63 19.70 North Main reach 1 2.54 1101.03 147.09 0.16 0.000254 13.20 2798.00 4 68 13.10 7.28 44000 North Main reach 1 3.04 1364.29 153.87 0.18 14.99 0.000292 44000. 4150.00 4.68 14.85 8.04 North Main reach 1 16.67 0.000378 3.52 1629.24 179.46 0.21 5728.00 4.68 16.48 8.83 44000 North Main reach 1 0.000140 2.33 12075.70 5528.26 D. 13 19.50 10.96 10810.00 4.68 19.45 44000 North Main reach 1 151.62 0.17 12.98 0.000260 2.53 1104.82 7.23 12.88 43141 2798.00 4.68 reach 1 North Main 158.61 0.18 3.03 1371.26 14.74 0.000297 7.98 4150 00 4.68 14.60 43141 reach 1 North Main 0.20 0.000339 3.52 1652.00 322.28 16.37 5728.00 4,68 16.17 8.76 43141 reach 1 North Main 0.13 0.000142 2.27 12566.57 6243.00 10.82 10810.00 4.68 19.39 43141 reach 1 North Main 0,16 165.84 7.03 12.93 0.000230 2 36 1184.67 4.24 12.85 42941 2798.00 North Main reach 1 0.17 174.11 14.67 0.000262 2.81 1474.91 14.55 7.77 4.24 4150 00 reach 1 42941 North Main 0.18 315.24 0.000294 3 26 1774.86 16.13 8.53 16.29 North Main reach 1 42941 5728.00 4.24 0.17 9715.14 6158.30 0.000264 2 48 10.56 19.39 19.34 reach 1 42941 10810.00 4.24 North Main

HEC-RAS Plant P.50% D. (Continued) Q Total Min Ch El W.S. Elev Crit W.S. E.G. Elev E.G. Slope Vei Chni Flow Area Top Width Froude # Chi Reach River Sta (cfs) (fl) (ft) (ft) (ft) (ft/ft) (fl/s) (sq ft) **(ft)** North Main reach 1 42938 Inline Weir reach 1 12.90 North Main 42932 2798.00 3.60 12.84 6.05 2.01 1391.32 172.25 0.12 0.000142 reach 1 North Main 42932 4150.00 3.60 14.54 6.76 14.64 2.45 1690.53 178.84 0.14 0.000173 42932 North Mair reach: 5728.00 3.60 16.12 16.25 0.000205 2.90 1997.86 306.92 0.16 North Main 42932 10810.00 3.60 19.33 9,47 19.39 0.000229 2.52 9629.19 6106.70 0.16 North Main reach t 42366 2798.00 3.60 12.B1 5.54 12.85 0.000078 1.53 1825.67 217.37 0.09 North Main reach 1 42366 4150.00 3.60 14.50 5.12 1.69 0.11 14.55 0.000097 2198.34 223.35 North Main reach 1 42366 5728.00 3.60 16.07 227.28 6.72 16,15 0.000115 2.24 2552.53 0.12 North Main reach 1 42386 10810.00 3.60 19.25 0,12 8.35 19.33 0.000109 2,48 9980.06 5496.50 North Main mach 1 42313 2798 00 3.60 12.80 5.54 12.84 0.000079 1.53 1823.62 217.33 0.09 North Main mach 1 42313 4150 00 3.60 14 49 6.12 14.54 0.000097 1 89 2195.74 223.31 0 11 North Main reach 1 42313 5728.00 3.60 16.06 6.72 16 14 0.000116 2,25 2549.38 227.24 0.12 North Main reach 1 42313 10810.00 3.60 19.25 8.35 19.32 0.000110 2.48 9947.15 5482.22 0,12 223.19 42000 3.60 12.78 5.46 1.47 1902.70 North Main reach 1 2798.00 12.81 0.000071 0.09 North Main reach 1 42000 4150.00 3.60 14.46 6.02 14.51 0.000088 1.82 2283.40 229.11 0.10 5728.00 16.03 North Main 42000 3.60 6.59 0.000107 2.15 2646.22 234.63 0.11 reach 1 16.10 North Main 42000 19.19 0.13 reach 1 10810.00 3.60 8,15 0.000126 2.69 8781.32 6401.17 19.28 North Main 40000 2798.00 12.64 5.11 1,44 1936.81 225.72 0.09 reach 1 3.15 12.67 0.000067 North Main reach 1 40000 4150.00 3.15 14.28 5.68 14.33 1.79 2312.85 231.19 0.10 0.000085 North Main reach 1 0.11 40000 5728.00 15.81 6.27 15.89 0.000104 2671.01 235.84 North Main reach 1 40000 10810.00 3.15 18.83 7.86 18.98 0.000170 3.12 4347.73 2651.17 0.15 North Main reach 1 38000 2798.00 3.14 12.49 5.03 12.53 0.000068 1.45 1929.22 225.38 0.09 North Main reach 1 38000 4150.00 3 14 14.10 5.59 0.000088 1.81 2296.35 231.85 0.10 14.15 North Mair reach 1 38000 5728 00 3.14 15 60 6 17 15.67 0.000107 2.16 2648.97 237.13 0.11 North Main reach 1 38000 10810.00 3.14 18.48 7.76 18.62 0.000187 3.24 3339.28 246.22 0.15 12.33 5.07 1833.50 217.01 0.09 38000 2798.00 3.15 1.53 North Main reach 1 12 37 0.000077 North Main reach 1 36000 4150.00 3.15 13.90 5.65 13.96 0.000099 1.91 2177.26 222.51 0.11 North Main reach: 1 36000 5728.00 3.15 15.35 6.24 15,44 0.000123 2.29 2504.92 227.71 0.12 0.17 North Main reach 1 36000 10810.00 3.15 18.03 7.84 18.21 0.000222 3.46 3125.79 237.26 5.17 220.14 0.10 12.18 12.22 1.58 1768.03 34000 2798.00 3,16 North Mair reach t 0.000088 34000 4150.00 3.16 13.68 5.76 13.74 0.000113 1.97 2104.67 226.95 0.11 North Main reach:1 2427.14 231.74 0.13 5728.00 3.16 15.09 6.37 15.17 2.36 34000 0.000139 North Main reach 1 240.08 D.18 17.53 17.73 3.60 3003.45 North Main reach 1 34000 10810.00 3.16 8.00 0.000256 216.53 0.10 North Main reach 1 32548 2798.00 3.16 12.04 5.24 12.08 0.000094 1.62 1724.21 0.12 North Main reach t 32548 4150.00 3.16 13.51 5.84 13.57 0.000121 2.03 2045.28 221.38 32548 5728.00 3.16 14.87 6.45 14.97 0.000149 2.44 2350.33 225.89 0.13 North Main reach f 0.19 32548 10810.00 3.16 17.12 8.08 0.000288 3.77 2865.25 233.32 North Main reach 1 12.08 North Main 32504 2798.00 3.16 12.04 5.24 0.000094 1.62 1723.31 216 52 0.10 reach t reach 1 32504 4150.00 3.16 13.50 5.84 13.57 0.000121 2.03 2044 09 221.36 0.12 North Main North Main reach 1 32504 5728.00 3 16 14.87 6 45 14 96 0.000150 2.44 2348.62 225.87 0.13 North Mair reach 1 32504 10810.00 3.16 17.10 8.08 17.32 0.000289 3.78 2862.16 233,28 0.19 221.21 0.10 North Main reach 1 32000 2798.00 3.18 12.00 5.14 12.03 0.0000851.56 1790.88 reach 1 5.70 2116,02 226.45 0.11 North Main 32000 4150.00 3,16 13,45 13.51 0.000111 1.96 5728.00 3.16 14.80 14.88 0.000139 2.36 2424,91 231.31 0.13 North Main reach 1 32000 6.28 260.91 7.84 17.17 3.66 2949.99 0.19 16.98 0.000304 North Main reach 1 32000 10810.00 3.16 0.09 2.92 11.83 4.82 11.87 0.000078 1844.92 222.78 North Main 30000 2798,00 1.52 reach 1 4150.00 5.38 13.29 0.000105 1.92 2159.83 227.13 0.11 30000 2.92 13.23 North Mair reach t 231.15 0.13 5728,00 14.53 5.95 14.61 0.000134 2.33 2456.07 North Main 30000 2.92 reach 1 0.16 16.41 7.52 16.60 0.000259 3.56 4367.28 2802.21 North Mair reach 1 30000 10810.00 2.92 reach 1 29585 3101.00 2.90 11.78 5.02 11.83 0.000108 1.76 1759 00 216 39 0.11 North Main North Main reach 1 29585 4233.00 2.90 13.18 5.50 13.24 0.000122 2.05 2064.74 221 55 0.12 5770.00 2.90 14.46 6.08 14.55 0.000152 2.45 2351 23 226 29 0.13 North Main reach 1 29585 North Main reach 1 29585 10695.00 2.90 16.25 7.62 16.48 0.000318 3.87 2751,74 4670.19 0.20 1757.53 215.36 0.11 11 78 North Main reach 1 29523 3101.00 2.90 5.02 11.82 0.000108 1.76 221.52 0.12 North Main reach 1 29523 4233 00 2.90 13.17 5.50 13.24 0.000122 2.05 2063.03 0.13 North Main reach 1 29523 5770.00 2.90 14.45 6.08 14.54 0.000152 2.46 2349.05 226,25 4684,92 0.20 16.46 0.000320 3.88 2756.90 North Main reach 1 29523 10695.00 2.90 16.22 7.63 0.11 1773.44 223.04 28000 3101,00 2.90 11.61 5.03 11.66 0.000109 1.75 North Main reach 1 5.51 13.05 0.000123 2.03 2083.03 227.42 0.12 North Main reach t 28000 4233,00 2.90 12.98 5770,00 2.90 14.22 6.08 14.31 0.000153 2.44 231.34 0.13 28000 North Main reach 1 16.06 8018.53 3645.69 0.15 7.61 0.000177 2.86 28000 10695.00 2.90 15.97 North Main reach t 11.42 1690.86 219.82 0.12 North Main 26000 3101.00 2.90 11.37 5.04 0.000125 1.83 reach 1

| River  | Plan · P 50% F   | River Sta                              | Q Total            | Min Ch El   | W.S. Elev | Crit W.S.      | E.G. Elev   | E.G. Slope | Vel Chni | Flow Area   | Top Width          | Froude # Chi |
|--|------------------|--|--------------------|-------------|-----------|----------------|-------------|------------|----------|-------------|--------------------|--------------|
|  | Phile Charles    | 55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | (cfs)              | (ft)        | (ft)      | (ft)           | (ft) · · ·  | (ft/ft)    | (ft/s)   | (sq ft)     | (ft)               |              |
| lorth Main   | reach 1          | 26000.                                 | 4233.00            | 2.90        | 12.71     | 5.52           | 12.78       | 0.000140   | 2.13     | 1989.97     | 225.00             | 0,13         |
| lorth Main   | reach 1          | 26000.                                 | 5770.00            | 2.90        | 13.90     | 6.10           | 13.99       | 0.000168   | 2.47     | 2740.91     | 682.40             | 0,14         |
| lorth Main   | reach 1          | 26000.                                 | 10695.00           | 2.90        | 15.45     | 7.66           | 15.60       | 0.000310   | 3.34     | 5975.54     | 4590.03            | 0.19         |
|  |                  |  |                    |             |           |                |             |            |          |             |                    |              |
| lorth Main   | reach 1          | 24000.                                 | 3101.00            | 2,90        | 11.11     | 4.93           | 11.16       | 0.000126   | 1.83     | 1696.63     | 222.65             | 0.12         |
| forth Main   | reach 1          | 24000.                                 | 4233.00            | 2.90        | 12.43     | 5.39           | 12.49       | 0.000140   | 2.08     | 2408.23     | 1064.88            | 0.12         |
| lorth Main   | reach 1          | 24000                                  | 5770.00            | 2.90        | 13.61     | 5.94           | 13.67       | 0.000147   | 2.18     | 4201.73     | 1796.22            | 0.13         |
| lorth Main   | reach 1          | 24000.                                 | 10695.00           | 2.90        | 15.39     | 7.44           | 15.40       | 0.000035   | 1.13     | 23202.16    | 8086.94            | 0.06         |
| William Co.  | Committee of the |  |                    |             |           |                |             |            |          |             |                    |              |
| orth Main  | reach 1          | 22000:                                 | 3101.00            | 2.90        | 10.84     | 4.92           | 10.89       | 0.000137   | 1.87     | 1657.80     | 222.68             | 0.12         |
| Vorth Main   | reach/1          | 22000                                  | 4233.00            | 2.90        | 12.12     | 5.37           | 12.19       | 0.000153   | 2.18     | 1951.74     | 238,37             | 0.13         |
| North Main   | reach 1          | 22000                                  | 5770.00            | 2.90        | 13.23     | 5.91           | 13,33       | 0.000193   | 2.62     | 2230.65     | 309.56             | 0.15         |
| North Main   | reach 1          | 22000.                                 | 10695.00           | 2.90        | 15.00     | 7.40           | 15.22       | 0.000344   | 3.85     | 3657.41     | 1366.75            | 0.20         |
| TO THE STATE OF TH | MINNESS TO THE   | a Mary Live                            |                    |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 20000                                  | 3101.00            | 2.23        | 10.55     | 4.53           | 10.61       | 0.000144   | 1.93     | 1609.72     | 215.14             | 0.12         |
| North Main   | reach 1          | 20000.                                 | 4233.00            | 2.23        | 11.79     | 5.00           | 11.87       | 0.000165   | 2.25     | 1879.11     | 219.87             | 0.14         |
| lorth Main   | reach 1          | 20000.                                 | 5770.00            | 2.23        | 12.81     | 5.57           | 12.92       | 0.000216   | 2.74     | 2103.92     | 223.74             |              |
| lorth Main   | reach 1          | 20000                                  | 10695.00           | 2.23        | 14.08     | 7.11           | 14.39       | 0.000500   | 4.47     | 2391.34     | 228.59             | 0.24         |
|  |                  |  |                    |             |           |                |             |            | 1.00     | 4500.70     | 240.50             | 0.13         |
| North Main   | reach 1          | 19889                                  | 3101.00            | 2.23        | 10.54     | 4.62           | 10.60       | 0.000157   | 1.99     |             | 212.52             | 0.13         |
| Vorth Main   | reach 1          | 19889                                  | 4233.00            | 2.23        | 11.77     | 5.11           | 11.86       | 0.000179   | 2.32     |             | 217.71             | 0.14         |
| forth Main   | reach 1          | 19889                                  | 5770.00            | 2.23        | 12.78     | 5.70           | 12.90       |            | 2.82     |             | 221.44             |              |
| lorth Main   | reach 1          | 19889                                  | 10695.00           | 2.23        | 14.00     | 7.28           | 14.33       | 0.000542   | 4.61     | 2348.04     | 422.32             | 0.25         |
| MARK IN  | KONTALIZAÇIYA    | 9 / AST 1 4 E                          | L                  |             |           |                |             |            |          | 4250.00     | 040.40             | D 44         |
| forth Main   | reach 1          | 19835                                  | 3101.00            | 2.23        | 10.53     | 4.62           | 10.59       | 0.000157   | 1.99     |             | 212.48             | 0.13         |
| North Main   | reach 1          | 19835                                  | 4233.00            | 2.23        | 11.76     | 5.11           | 11.85       | 0.000179   | 2.32     | 1824.44     | 217.66             | 0.14         |
| forth Main   | reach 1          | 19835                                  | 5770.00            | 2.23        | 12.77     | 5.70           | 12.89       |            | 2.82     |             | 221.39             | 0.10         |
| lorth Main   | reach 1          | 19835                                  | 10695.00           | 2.23        | 13.97     | 7.28           | 14.30       | 0.000548   | 4.62     | 2334.77     | 410.50             | 0.23         |
|  |                  |  |                    |             |           |                |             | 0.000100   | 200      | 1507.47     | 211.94             | 0.1          |
| North Main   | reach 1          | 18000.                                 | 3101.00            | 2.22        | 10.23     | 4.53           | 10.29       |            | 2.03     |             | 211.94             | 0.1          |
| North Main   | reach 1          | 18000                                  | 4233.00            | 2.22        | 11.42     | 5.00           |             |            |          |             |                    | 0,1          |
| North Main   | reach 1          | 18000                                  | 5770.00            | 2.22        | 12.31     | 5.58           |             |            | 2.90     |             | 1792.31<br>5060.65 | 0.2          |
| North Main   | reach 1          | 18000                                  | 10695.00           | 2.22        | 12.94     | 7.13           | 13,24       | 0.000593   | 4.58     | 4376.17     | 5000.03            | 4.2          |
| 1 10 10 10 10 10   | [新報日本27.74]      |  |                    |             |           |                |             | 0.000400   | 2.00     | 4480.40     | 208.46             | 0.1          |
| North Main   | reach 1          | 16000.                                 | 3101.00            |             | 9.87      | 4.30           |             |            | 2.09     |             |                    | 0.1          |
| North Main   | reach f          | 16000.                                 | 4233.00            |             | 11.00     | 4.78           |             |            | 2.46     |             | 212.80             | 0.0          |
| North Main   | reach 1          | 16000.                                 | 5770.00            |             | 12.16     |                |             |            | 1.43     |             | 6913.07            | 0.0          |
| North Main   | reach 1          | 16000.                                 | 10695.00           | 2.22        | 12.69     | 6.92           | 12.72       | 0.000115   | 1.93     | 15356,09    | 6931.22            | <u> </u>     |
|  |                  |  |                    |             |           |                |             |            |          |             | 242.54             | 0.1          |
| North Main   | reach 1          | 14000.                                 | 3101.00            |             | 9.50      | 4.07           |             |            | 2.07     |             | 212.54             | 0.1          |
| North Main   | reach 1          | 14000                                  | 4233.00            |             | 10.58     | 4.53           |             |            | 2.45     |             | 224.26             | 0.1          |
| North Main   | reach 1          | 14000                                  | 5770.00            |             |           | 5.10           |             |            | 2.89     |             |                    | +            |
| North Main   | reach 1          | 14000.                                 | 10695.00           | 2.03        | 12.45     | 6.62           | 12.4        | 0.000125   | 1.99     | 14709.50    | 0924.30            |              |
|  |                  |  |                    | 1.70        |           | 200            |             | 0.000216   | 2.20     | 1408.37     | 208.60             | 0.1          |
| North Main   | reach 1          | 12000.                                 | 3101.00            |             |           |                |             |            |          |             | <del></del>        | 0.1          |
| North Main   | reach 1          | 12000.                                 | 4233.00            |             | 10.09     |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 12000                                  | 5770.00            |             | 11.23     |                | +           |            |          | <del></del> |                    |              |
| North Main   | reach 1          | 12000.                                 | 10695.00           | 1.79        | 12.37     | 0.5            | 12.5        | 0.00002    | 0.5      | 00000.00    |                    |              |
|  |                  |  | 004000             | 1.80        | 8.58      | 3.99           | 8.6         | 7 0.000295 | 2.4      | 6 1316.76   | 209.91             | 0.1          |
| North Main   | reach 1          | 10000.                                 | 3240.00            | <del></del> |           |                | 1           |            |          |             |                    |              |
| North Main   | reach 1          | 10000.                                 | 4357.00<br>5782.00 |             |           |                | ·           |            |          |             |                    |              |
| North Main   | reach 1          | 10000.                                 | 10706.00           |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 10000.                                 | 10706.00           | 1.00        | 11.7-     | 0.0.           | 12          | 0.00000    | 1        |             |                    |              |
|  |                  | 2000                                   | 3290.00            | 1.73        | 7.80      | 3,9            | 9 7.9       | 3 0.000470 | 2.8      | 9 1138.7    | 7 202.30           | 0.2          |
| North Main   | reach 1          | 8000.                                  | 4457.00            |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 8000.<br>8000.                         | 5868.00            |             |           | +              |             |            |          |             |                    |              |
| North Main   | reach 1          | 8000.                                  | 10673.00           |             |           |                |             |            |          |             |                    | 0.1          |
| North Main   | reach 1          | B000,                                  | 10015.00           |             | 1         | 1              | <del></del> | 1          |          |             |                    |              |
| ** ** **   |                  | 6000                                   | 3290.00            | 1.77        | 6.80      | 3.6            | 8 6.9       | 7 0.000486 | 5 2.6    | 6 1306.9    | 7 296.7            | 0.2          |
| North Main   | reach 1          | 6000.                                  | 4457.00            |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 6000.                                  | 5868.00            |             |           |                |             |            | +        |             |                    | +            |
| North Main   | reach 1          | 6000.                                  | 10673.00           |             |           | -              |             |            |          |             |                    | +            |
| North Main   | reach 1          | 6000.                                  | 100/3.00           | 1.71        | +         |                | 1           | 1          | 1        |             |                    |              |
| Namb Mari  | mant 4           | 4056                                   | 3290.00            | 1.84        | 5.8       | 3.4            | 1 5.9       | 0.00062    | 1 2.5    | 2 1303.3    | 2 352.7            | 1 0.         |
| North Main   | reach 1          | 4056                                   | 4457.00            |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 4056                                   | 5868.00            |             |           |                | <del></del> |            |          |             |                    | 0 0.         |
| North Main   | reach 1          | 4056                                   | 10673.00           |             |           |                |             |            |          | _           |                    |              |
| North Main   | reach 1          | 4000                                   | 10073.00           | 1.0         | 1 0.0     | † <del></del>  | 1           | 1          |          |             |                    |              |
| M-44 8   | mants 4          | 4024                                   | 3290.00            | 0 1.8       | 4 5.7     | 9 3.4          | 1 5.6       | 9 0.00062  | 9 2.5    | 3 1298.3    | 6 352.6            | 4 0.:        |
| North Main   | reach 1          |  | 4457.0             |             |           |                |             |            |          |             |                    | 3 0.         |
| North Main   | reach 1          | 4024                                   | 5868.0             |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 4024                                   | 10673.0            |             | -         |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 4024                                   | 10073.0            | 1.0         |           | 1              |             | 1          | T        |             |                    |              |
| <u> </u>   |                  | 2000                                   | 0574.0             | 0 1.7       | 2 4.1     | 6 2.8          | 11 4.2      | 5 0.00105  | 5 2.4    | 1484.0      | 1 542.5            | 6 0.         |
| North Main   | reach 1          | 2000.                                  | 3574.0             |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 2000.                                  | 4919.0             |             |           |                |             |            |          |             |                    |              |
| North Main   | reach 1          | 2000                                   | 6522.0             |             |           |                |             |            |          |             |                    |              |
|  | reach 1          | 2000.                                  | 10850.0            | Vj 1.7      | ej 5.7    | <b>υ</b>   3,8 | 3.0         | 0.00004    | J        |             |                    |              |

HEC-RAS Plan- P-50% D (Continued)

|            | 1411-1-11-14 |           |          |           |           |           |           | _          |           |           |           |              |
|------------|--------------|-----------|----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|--------------|
| River      | Reach        | River Sta | Q Total  | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chril | Flow Area | Top Width | Froude # Chi |
|            |              |           | (cfs)    | (fl)      | (ft)      | (ft) ·    | (ft)      | (ft/ft)    | (fVs)     | (sq ft)   | (ft)      |              |
| North Main | reach 1      | 0.        | 3574.00  | 1.41      | 3.59      | 1.98      | 3.60      | 0.000155   | 0.77      |           | 7371.61   | 0.10         |
| North Main | reach 1      | 0.        | 4919.00  | 1,41      | 3.84      | 2.12      | 3.85      | 0.000155   | 0.84      | 8653.07   | 7645.83   | 0.10         |
| North Main | reach 1      | 0.        | 6522.00  | 1.41      | 4.10      | 2.26      | 4.11      | 0.000155   |           |           | 10307.77  |              |
| North Main | reach 1      | 0.        | 10850.00 | 1.41      | 4.62      | 2.63      | 4.63      | 0.000155   | 1.03      | 16375.00  | 10712.36  |              |
|            |              |           |          |           |           |           |           | 2.300100   | 1.03      | 10070.00  | 70/12.30  | U. 11]       |

## SITE ASSESSMENT - SPECIAL PROJECT (ALL DATABASES SEARCHED TO 1 MILE)

| PROPERTY<br>INFORMATION                      | CLIENT<br>INFORMATION |
|--|-----------------------|
| Project Name/Ref #: Not Provided             | Doug Zarker           |
| Raymondville Corridor                        | Turner Collie Braden  |
| Hargill, TX                                  | 400 W. 15th Street    |
| Latitude/Longitude: ( 26.452196, 98.044196 ) | Austin, TX 78701      |

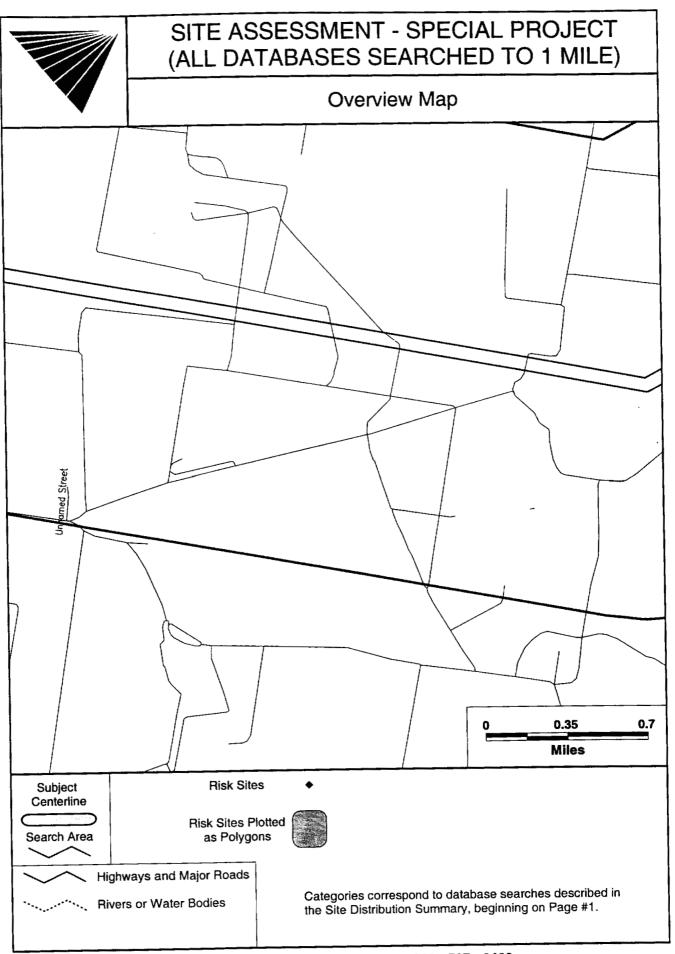
| Agency / Dat     | Site I<br>tabase - Type of Record | Distribution Summary   | within<br>1<br>mile |
|------------------|-----------------------------------|--|---------------------|
| A) Databases     | s searched to 1 mile:             |  |                     |
| US EPA           | NPL                               | _National Priority List                                      | 0                   |
| US EPA           | CORRACTS                          | RCRA Corrective Actions                                      | 0                   |
| STATE            | SPL                               | State equivalent priority list                               | 0                   |
| US EPA           | RCRA-TSD                          | RCRA permitted treatment, storage, disposal facilities       | 0                   |
| STATE            | SCL                               | State equivalent CERCLIS list                                | 0                   |
| US EPA           | CERCLIS/ NFRAP                    | Sites under review by US EPA                                 | 1                   |
| STATE/<br>REG/CO | LUST                              | Leaking Underground Storage Tanks                            | 0                   |
| STATE/<br>REG/CO | SWLF                              | Solid waste landfills, incinerators, or transfer stations    | 1                   |
| US EPA           | TRIS                              | Toxic Release Inventory database                             | 0                   |
| STATE/<br>CO     | UST                               | Registered underground storage tanks                         | 2                   |
| STATE.           | AST                               | Registered aboveground storage tanks                         | 0                   |
| US EPA           | GNRTR                             | RCRA registered small or large generators of hazardous waste | 0                   |
| JS EPA/<br>STATE | SPILLS                            | ERNS and state spills lists                                  | 0                   |

## LIMITATION OF LIABILITY

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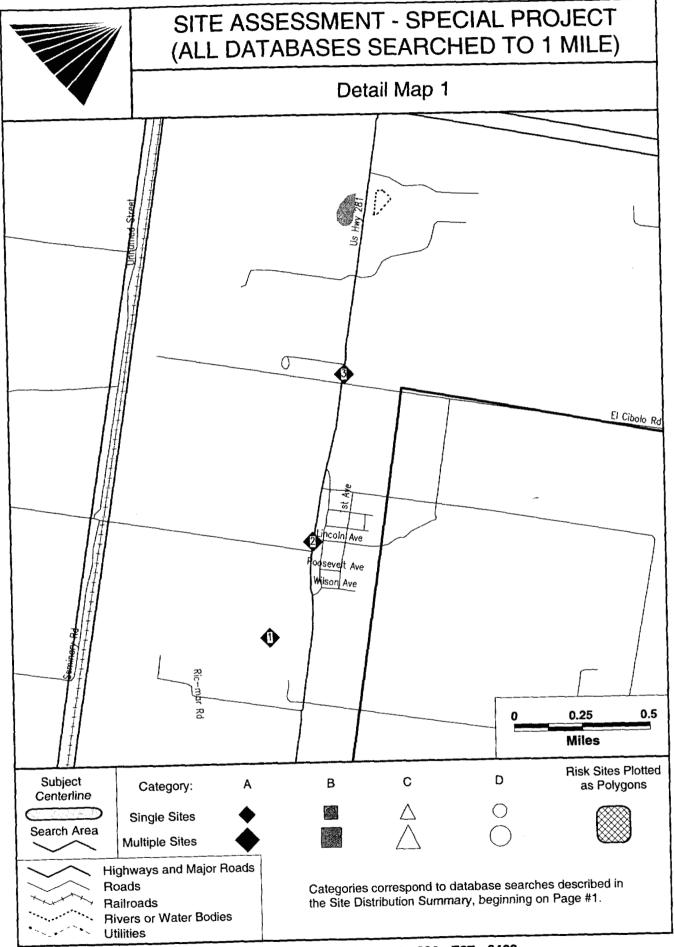


Version 2.6.1



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## SITE ASSESSMENT - SPECIAL PROJECT (ALL DATABASES SEARCHED TO 1 MILE)

## SITE INVENTORY

|           |  |                                   | _             |     |          |     |               | Α    |      |      |     |     |       |                   |
|-----------|--|-----------------------------------|---------------|-----|----------|-----|---------------|------|------|------|-----|-----|-------|-------------------|
| MAP<br>ID | PROPERTY AND THE ADJACENT AREA (within 1 mile)                           | VISTA ID<br>DISTANCE<br>DIRECTION | CORRACTS(TSD) | SPL | RCRA ISD | TOS | CERCLIS/NFRAP | LUST | SWLF | TRIS | UST | AST | GNRTR | ERNS SPILLS-STATE |
| 1         | CITY OF EDINBURG<br>.4M E OF US281, 6.7M N OF EDINBURG C<br>EDINBURG, TX | 3049048<br>0.64 MI<br>W           |               |     |          |     |               |      | х    | -    |     |     |       |                   |
| 2         | M L MART<br>N HWY 281 (FAYSVILLE)<br>EDINBURG, TX 78539                  | 5737580<br>0.75 MI<br>W           |               |     |          |     |               |      |      |      | x   |     |       |                   |
| 3         | ILLINI HELICOPTER<br>P.O. BOX 1601<br>EDINBURG, TX 78539                 | 206226<br>0.79 MI<br>W            |               |     |          |     | x             |      |      |      |     |     |       |                   |
| 4         | EDINBURG AUTO TRUCK STOP<br>US 281 FM 2812<br>EDINBURG, TX 78539         | 1394603<br>0.81 MI<br>SW          |               |     |          |     |               | _    |      |      | x   |     |       |                   |



Version 2.6.1

|                                |               |     |               |          |          |          |              | Α    |          |                |              |              |          |                   |
|--------------------------------|---------------|-----|---------------|----------|----------|----------|--------------|------|----------|----------------|--------------|--------------|----------|-------------------|
| UNMAPPED SITES                 |               | NPL | CORRACTS(TSD) | SPL      | RCRA TSD | SCL      | ERCLIS/NFRAP | LUST | SWLF     | TRIS           | UST          | AST          | GNRTR    | ERNS SPILLS-STATE |
|                                | <b>STA ID</b> | _   | 0             | S        | 2        | S        | 0            | =    | S        | Ε              | n            | ۷            | ၅        | Ξ.                |
| 2828 W MONTE CRISTO RD         | .01737        |     |               |          |          |          |              |      |          |                | v            |              |          |                   |
| EDINBURG, TX 78539             |               |     |               |          | ĺ        |          |              |      |          |                | X            |              |          |                   |
|                                | 49471         |     | -             |          |          | -        |              | -    |          |                |              | _            |          |                   |
| DIRT RD OFF FM490 1.5MI W FM88 | 10177         |     |               |          |          |          | х            |      |          |                |              |              |          |                   |
| HARGILL, TX 78549              |               | İ   |               |          |          |          | ^            |      |          |                |              |              |          |                   |
|                                | 86626         |     |               |          |          |          |              | -    | -        |                |              |              |          |                   |
| PO BOX 125                     |               |     |               |          |          |          |              |      |          |                |              | x            |          |                   |
| HARGILL, TX 78549              |               |     |               |          |          |          |              |      |          |                |              | ^            |          |                   |
|                                | 97086         |     |               |          |          |          |              | -    | $\vdash$ |                | _            |              |          | $\dashv$          |
| P.O. BOX 160 FM 490E           |               |     |               |          |          | х        | х            |      |          |                |              |              |          |                   |
| HARGILL, TX 78549              |               |     |               |          |          | ^        | ^            |      |          |                |              |              |          |                   |
|                                | 36902         |     |               |          | $\dashv$ |          |              |      |          | $\dashv$       |              |              | $\dashv$ |                   |
| HWY 493 5TH ST                 |               |     |               |          |          |          |              |      |          |                | x            |              |          |                   |
| HARGILL, TX 78549              |               |     |               |          |          |          |              |      |          |                |              | ı            |          |                   |
|                                | 86625         |     |               |          |          |          |              |      |          | $\neg \dagger$ |              |              | $\dashv$ |                   |
| BOX 55                         |               |     |               |          |          |          |              |      |          |                |              | $\mathbf{x}$ |          |                   |
| HARGILL, TX 78549              |               |     |               | ļ        |          |          |              |      |          |                |              |              |          |                   |
|                                | 88864         |     |               | $\neg$   |          |          |              |      |          |                |              | 1            |          |                   |
| PO BOX 117                     |               |     |               |          |          |          |              |      | ı        |                | х            |              |          |                   |
| HARGILL, TX 78549              |               |     |               |          |          | l        |              |      |          |                |              |              |          |                   |
| DOMINGUES GROCERY 13           | 91811         |     | Ì             |          |          |          |              | -    |          |                | $\neg$       |              |          |                   |
| HWY 493                        |               |     |               |          |          |          | l            |      |          |                | $\mathbf{x}$ |              |          |                   |
| HARGILL, TX 78549              |               |     |               |          |          |          |              | Ì    |          |                |              |              | ı        |                   |
| US DEPT OF AGRICULTURE, APHIS  | 86621         |     |               |          |          |          |              |      |          |                |              |              |          |                   |
| N 7 MILES HWY 681              |               |     |               |          |          |          |              | х    |          |                | X            |              |          |                   |
| EDINBURG, TX 78539             |               |     |               |          |          |          |              |      |          |                |              | ĺ            |          |                   |
| MID-VALLEY CONSTRUCTION 17     | 86617         |     | Ī             |          |          |          |              |      |          |                |              | T            |          |                   |
| HWY 107 2 MI W                 |               |     |               |          |          | 1        |              |      |          |                |              | X            |          |                   |
| EDINBURG, TX 78539             |               |     |               |          |          |          |              |      |          |                |              |              |          | ]                 |
| TRUCKING STORAGE               | 07224         |     |               |          |          |          |              |      |          |                |              |              |          | Ì                 |
| HWY 281                        |               |     |               |          |          |          | Ì            | X    |          |                | X            |              |          |                   |
| LINN, TX 78563                 |               |     |               |          |          |          |              |      |          | $\perp$        | $ \bot $     | $\perp$      |          |                   |
| SESSES TOWN COOMER WAR         | 61429         |     |               |          |          |          |              |      |          |                |              |              |          | İ                 |
| 4 MI N 281 DAVIS RD            |               |     |               |          |          |          |              |      |          |                | X            | - 1          |          |                   |
| EDINBURG, TX 78539             | 05225         |     | _             | _        | _        |          |              |      | _        | $\dashv$       |              | _            | 4        |                   |
| SALA MANAGE DOLANE SERVICE     | 95368         |     |               |          | - 1      |          |              |      | - [      |                |              |              |          |                   |
| 18 MI N SH 281                 |               |     |               |          |          |          |              |      |          |                | X            | X            |          |                   |
| LINN, TX 78563                 | 70828         |     |               | $\dashv$ | +        |          |              |      |          |                | $\dashv$     | $\dashv$     | 4        |                   |
| E COUNTY                       | / U0Z8        |     |               |          |          |          | - 1          |      |          |                |              |              | İ        |                   |
| HWY 186                        |               |     |               |          | -        | }        |              |      |          |                | X            |              |          |                   |
| LINN, TX 78563                 | 86646         |     | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$     |      |          | $\dashv$       |              |              | $\dashv$ | 4                 |
| 3.3. OILE                      | 20040         |     |               |          |          |          |              |      |          |                | Ţ١           |              |          |                   |
| 1 MILE WEST HWY 83             |               |     |               |          |          | -        |              |      |          |                | ×            |              |          |                   |
| LINN, TX 78563                 |               | 1   | 1             |          |          |          |              |      | Щ.       | $\perp$        |              |              |          |                   |



|  |                | <u> </u> |               |          | Α      |           |            |              |          |                |              |              |          |  |  |
|--|----------------|----------|---------------|----------|--------|-----------|------------|--------------|----------|----------------|--------------|--------------|----------|--|--|
| UNMAPPED SITES                                     |                |          | CORRACTS(TSD) |          | tA TSD | CCL       | CLIS/NFRAP |              |          | TRIS           |              |              | ¥        |  |  |
| FRED'S GAS DEPOT                                   | VISTA ID       | Ę        | ပ္ပ           | 몺        | 2      | SCL       | CER        | S            | ME       | S              | ISI          | SI           | GNRTR    |  |  |
| 2527 S HWY 281                                     | 12695337       |          |               |          |        |           |            | _            | 0,       |                | 긕            | 4            | <u> </u> |  |  |
| EDINBURG, TX 78539                                 |                | l        |               |          | ĺ      | i         |            |              |          |                | $\mathbf{x}$ | - {          |          |  |  |
| HOP N SHOP #22                                     |                |          |               |          |        | ŀ         |            |              |          |                | ^            |              |          |  |  |
| 102 S HWY 281                                      | 12695322       |          |               |          |        |           | _          | _            | $\dashv$ | $\dashv$       | +            | $\dashv$     | $\dashv$ |  |  |
| EDINBURG, TX 78539                                 |                |          |               |          | -      |           |            | ı            |          |                | x            |              | - [      |  |  |
| WOODEN NICKLE                                      |                |          |               | - 1      | - 1    |           |            |              |          |                | ^            | - 1          | -        |  |  |
| BOX 955, RT 4                                      | 1407663        |          |               | $\neg$   | T      | 7         | $\dashv$   | -            | $\dashv$ |                | -+           | 4-           | -        |  |  |
| EDINBURG, TX 78539                                 |                |          |               |          |        |           |            |              |          | 1.             | J            |              | 1        |  |  |
| POOL COMPANY LTD - EDINBURG                        |                |          | -             |          |        |           |            |              |          |                | X            | -            | -        |  |  |
| 4M NORTH OF US HWY 281                             | <i>8513816</i> |          | T             |          | +      | $\dashv$  | ┪          | -+           | +        |                | -+-          | +            | 4        |  |  |
| EDINBURG, TX 78539                                 |                | ĺ        |               | İ        | ĺ      | -         | -          |              |          |                | -            | ١,           |          |  |  |
| UNCLE SAM'S #30                                    |                |          |               |          |        |           |            |              |          |                | ł            | 1            |          |  |  |
| N HWY 281  | 11195754       |          | $\neg$        | 7        | _ -    | +         | 十          | $\dashv$     | -+       | $\dashv$       | ╁            | +-           | +        |  |  |
| EDINBURG, TX 78539                                 | İ              | -        | - [           |          | - [    |           |            |              |          |                |              | İ            | -        |  |  |
| ALICE SPECIALTY CO INC                             |                |          |               |          | -      |           | 1          |              |          | '              | `            |              | 1        |  |  |
| N HWY 281  | 3346709        | 7        | _             | ┪        |        | $\exists$ | +          | +            | +        | -              | +-           | +-           | +        |  |  |
| EDINBURG, TX 78539                                 |                |          |               |          |        |           | 1          |              |          |                |              | .            |          |  |  |
|  |                | - 1      |               |          | 1      |           |            |              |          |                | X            |              |          |  |  |
| SAFETY-KLEEN CORP 6-048-02                         | 1809421        | $\neg$   | 十             | ┪-       | ╅      | ╁         | +          | ┰            | +-       | ╬              | +-           | +            | +        |  |  |
| CHAPIN ST ALONG CANAL RAILRD<br>EDINBURG, TX 78539 |                |          |               |          | ĺ      |           |            |              |          |                | İ            | 1,           |          |  |  |
|  |                | -        |               |          |        |           |            |              |          |                | İ            | X            | 1        |  |  |
| LINN FEED SUPPLY COMPANY, INC.<br>PO BOX 200       | 1365986        | 7        | $\top$        | 1-       | 十      | +-        | +          | ╁            | +        | +              | +-           | ╄            | +-       |  |  |
| INN, TX 78563                                      |                |          |               |          | 1      |           | 1          |              |          |                |              |              |          |  |  |
| A COMA RANCH                                       |                | ł        |               |          | ł      |           |            | ł            |          | X              |              |              |          |  |  |
| HWY 281-14 MI N                                    | 2541575        | $\top$   | †-            | 十        | +-     | ╁         | +-         | ╁            | ╁        | +              | ╀╌           | ┼-           | 1        |  |  |
|  |                | 1        | ı             |          | 1      |           |            |              |          |                | ,            | ĺ            |          |  |  |
| DINBURG, TX 78539                                  |                | 1        |               |          |        |           |            |              |          | ļ              | X            | ĺ            | ļ        |  |  |
| IELDT BROS TRUCKING CO<br>I HWY 281                | 3346712        | 7-       | +             | †-       | ╁╴     | +-        | ╁          | +-           | ╁        | +-             | ╁            | ├-           | ┞        |  |  |
|  |                |          | İ             |          |        |           | X          |              | ĺ        |                | l            |              |          |  |  |
| DINBURG, tx 78539                                  |                | ļ        |               |          |        |           | ^          |              |          |                |              |              |          |  |  |
| VARREN PETROLEUM CO LA REFORMA PLANT               | 459675         | †-       | $\top$        | †-       | 1-     | +-        | ╁          | +-           | +-       | ┼-             | ├—           | <del> </del> | _        |  |  |
| M NORTH OF PUERTO RICO<br>NN, TX 78563             |                |          |               | ĺ        | l      |           |            | 1            |          |                |              |              | ĺ        |  |  |
| OMCO   |                | 1        |               |          | l      |           |            | ĺ            | 1        |                |              | X            |          |  |  |
| 5M W HWY 107                                       | 4090199        | +        | T             | _        | -      | †-        | ╁          | <del> </del> | ╁        | ┼┤             | $\vdash$     |              | <u> </u> |  |  |
|  |                |          |               |          |        |           |            |              |          |                |              |              |          |  |  |
| DINBURG, TX 78539                                  |                |          |               | ]        |        | 1         |            |              | 1        | 1 1            |              | X            |          |  |  |
| ARTIN FARM RANCH<br>OUTE 4 BOX 473                 | 259941         | †        | $\top$        |          | -      | <u> </u>  | -          | <del> </del> | +-       | ╁              |              | $\dashv$     |          |  |  |
|  |                |          |               |          |        | x         |            |              | 1        |                |              |              |          |  |  |
| DINBURG, TX 78539                                  |                | ĺ        |               |          |        | ^`        |            |              |          |                |              | - }          |          |  |  |
| EATHERFORD U.S.INC                                 | 5242268        | 1        | <u> </u>      | $\vdash$ | -      |           | -          | _            |          |                |              | $-\!\!\!\!+$ |          |  |  |
| 5M N HWY 281                                       |                |          | 1             |          |        |           |            |              |          |                | -            |              |          |  |  |
| DINBURG, TX 78539                                  |                |          |               |          |        |           |            | i            |          |                |              | X            |          |  |  |
| NION Y DIGNIDAD INC                                | 443063         |          | $\vdash$      | -+       |        |           |            | -            | $\dashv$ | $-\!\!\!\!\!+$ | -            |              |          |  |  |
| 4 MISFM 490 2 MI W 281                             | 1              |          |               |          | J      | x         |            | -            | -        |                |              |              |          |  |  |
| MNBURG, TX 78539                                   | J 1            | ١,       |               |          | - 1    | ^         |            |              | - 1      |                |              |              |          |  |  |



|   |          |     |               |         |         |     | CERCLIS/NFRAP   X   LUST   X   SWLF   SWLF   X   X   X   X   X   X   X   X   X |         |         |     |        |         |          |              |
|---|----------|-----|---------------|---------|---------|-----|--|---------|---------|-----|--------|---------|----------|--------------|
| UNMAPPED SITES                                    |          |     | CORRACTS(TSD) |         | A TSD   |     | CLIS/NFRAP   |         |         |     |        |         | IR       | SPILLS-STATE |
|   | VISTA ID | 절   | S             | SP      | స్ట     | ರ್ಷ | S  | JST.    | ×       | SS  | N<br>N | 1ST     | SNR      | RNS          |
| SAN MANUEL BUTANE                                 | 5265632  |     | -             |         | _       | -   |  | =       | -       | -   | _      | _       | $\vdash$ | -            |
| N HWY 281   |          |     |               |         | - !     |     |  | x       |         | l   |        |         |          |              |
| LINN, tx 78563                                    |          |     |               |         |         |     |  | ^       |         |     |        |         | - 1      | ı            |
| CACTUS DRIVE IN                                   | 2595221  |     |               |         |         |     | -1   |         |         | -   |        |         |          |              |
| 1/4 M E OF HWY 81 ON S                            |          |     |               |         |         |     |  |         |         |     | x      |         | Ì        |              |
| EDINBURG, TX 78539                                |          |     |               | -       |         |     |  |         |         |     |        |         | - 1      |              |
| MC ALLEN PRODUCTION UNIT OFFICE                   | 1395428  |     |               | 7       |         |     | _  |         | -       |     |        |         |          | $\dashv$     |
| BOX 173   |          |     |               |         | - 1     |     |  | - 1     | j       |     | x      | - 1     | - 1      |              |
| EDINBURG, TX 78539                                |          |     |               |         |         |     | - 1  |         | ı       |     |        | - {     | ĺ        |              |
| J A M DISTRIBUTING COMPANY                        | 6480220  |     |               | _       |         |     | 7  |         |         |     |        | -       | -+       |              |
| N HWY 281   |          |     |               |         | - 1     | - 1 | İ  |         | ĺ       | - 1 | - 1    | x       | - [      |              |
| EDINBURG, TX 78539                                |          |     | ı             |         |         | - 1 |  | - 1     | J       | i   | - 1    |         | -        |              |
| TEXMART #25                                       | 12695043 |     |               | $\neg$  |         |     | 7  | 7       | $\neg$  |     |        |         | +        | $\dashv$     |
| 1606 E RICHARDSON                                 |          |     |               | 1       |         |     |  |         |         | ł   | x      | - 1     |          |              |
| EDINBURG, TX 78539                                |          |     | - 1           |         |         |     | - 1  |         | ı       |     |        | - }     |          |              |
| JIM LAMBERT                                       | 218141   |     |               |         |         |     |  | 7       | 7       |     |        | _       | -        | $\neg$       |
| RT 3 BOX 217,1 MI N OF FM3250                     |          |     |               |         |         |     | χĺ   |         | - 1     |     |        | - 1     | - 1      |              |
| EDINBURG, TX 78539                                |          |     | - 1           |         |         |     |  | - 1     |         |     | - 1    |         |          |              |
| EDINBURG WELL SERVICE                             | 6480393  | Ţ   | $\top$        |         |         |     | 7  | 7       | $\neg$  | _   |        | $\neg$  | 1        | $\neg$       |
| BOX 166 B   |          | - 1 | İ             |         | - (     |     | - 1  | - 1     | j       | - 1 | - 1    | χĺ      |          |              |
| EDINBURG, TX 78539                                |          |     | - 1           |         |         |     |  | j       | - 1     |     |        |         |          |              |
| SALINAS 1925 DRIVE IN                             | 6480599  |     |               |         |         |     |  | -1      | 7       |     |        | 1       | _        | $\neg$       |
| E FM 2812 DOOLITTLE RD                            | i        | -   | -             |         |         | -   | - [  |         | - 1     |     | x      | ı       |          |              |
| EDINBURG, TX 78539                                |          |     |               |         |         |     |  |         | - [     | ı   |        |         |          |              |
| DEKOCK PIT  | 3666007  |     |               |         | T       | Τ   | T  | Т       |         |     | $\neg$ | 7       |          |              |
| N HWY 281   |          |     | 1             |         |         |     |  |         |         | - 1 |        | x       |          |              |
| LINN, TX 78563                                    |          | _   | $\perp$       | $\perp$ | $\perp$ |     |  |         | _       | _ [ |        |         |          | 1            |
| PUERTO RICO GROCERY                               | 3670225  | -   |               | -       |         |     |  | T       | T       |     |        |         |          |              |
| RENARAY SCHUNIOR                                  |          |     |               |         |         |     |  | 1       | - [     |     | x      |         |          |              |
| EDINBURG, TX 78539                                |          | _   |               | $\perp$ | _       |     |  |         | _       |     |        |         |          |              |
| GUERRA BROS. INC.                                 | 2561829  |     | -             |         |         | 1   |  | ĺ       | - 1     |     |        |         | $\top$   | 7            |
| 181/2MI N OF EDINGBURG HWY 281                    |          |     |               |         |         |     |  |         | ı       |     | Χ      |         |          |              |
| LINN, TX 78563<br>HIDALGO COUNTY                  |          | 4   | 4             | $\perp$ | $\perp$ | _   | 1  | $\perp$ | 4       |     |        | $\perp$ | $\perp$  |              |
|   | 3051411  |     |               |         |         |     |  |         |         |     | -      |         |          |              |
| 3.2MI E US281,ADJACENT TO N SIDE DAV EDINBURG, TX |          |     | -             |         |         |     |  | 12      | ×       |     |        | 1       | -        |              |
| CURLS FARM SERVICE                                | 100055   | +   | - -           | +-      | +       | _   | +  | 4       | $\perp$ | _   | 1      | $\perp$ |          |              |
| JUNCI. 83 HWY 487                                 | 109355   |     |               |         |         | 1.  |  |         |         |     |        | 1       |          |              |
| EDINBURG, TX 78539                                | 1        |     |               |         |         | >   |  |         |         |     |        | 1       |          |              |
| VILLARREL GROCERY                                 | 2500010  | +   |               | +-      | +       | - - | +  | +       | $\perp$ | -   | _      |         | _        | _            |
| HWY 107   | 2589910  |     |               |         |         |     | 1.   |         |         |     |        |         |          |              |
| EDINBURG, tx 78539                                |          |     |               |         |         |     | 7  |         |         |     |        |         |          |              |
| VISTA OIL   | 12694516 | +   | +             |         | +-      | +   | -  | +       | $\perp$ | +   | 4-     | +       | $\perp$  | 4            |
| E HALF OF BLOCK 171                               | 12094310 |     |               | 1       |         |     |  |         |         | 1.  | _      |         |          |              |
| EDINBURG, TX 00000                                |          |     |               |         |         |     |  |         |         | 1   |        |         |          |              |
|   |          | _l_ |               |         |         |     | L.   |         | $\perp$ |     |        |         | 1        |              |



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|                                   |          | A    |               |          |          |        |               |        |        |          |          |          |            |                          |
|-----------------------------------|----------|------|---------------|----------|----------|--------|---------------|--------|--------|----------|----------|----------|------------|--------------------------|
| UNMAPPED SITES                    |          |      | CORRACTS(TSD) |          | RCRA TSD |        | CERCLIS/NFRAP |        |        |          |          |          | R          | <b>ERNS SPILLS-STATE</b> |
|                                   | VISTA ID | NPI. | COR           | SPL      | RCR/     | SCL    | CERC          | LUST   | SWLF   | TRIS     | UST      | AST      | GNRTR      | ERNS                     |
| Y-DRIVE INN                       | 12693610 |      |               |          |          |        |               |        |        |          |          |          |            |                          |
| 3 1/2 MLE FM 107                  |          |      |               | '        |          |        |               |        |        |          | X        |          | Ì          |                          |
| EDINBURG, TX 78539                |          | L.   |               | <u> </u> |          |        |               | ļ      |        |          |          |          |            |                          |
| T C QUICK STOP                    | 1788564  |      |               |          |          |        |               |        |        |          |          |          |            |                          |
| N HWY 281 1017                    |          |      |               |          |          |        |               |        |        |          | X        |          |            |                          |
| LINN, TX 78563                    |          | L    |               |          |          |        |               |        | _      |          |          |          |            |                          |
| EDINBURG AUTO TRUCK STOP INC      | 2591477  |      |               | ì        |          |        |               |        |        |          |          |          |            |                          |
| HWY 281                           |          |      |               |          |          |        |               | X      |        |          |          |          |            |                          |
| EDINBURG, tx 78539                |          | L    | L             | L        |          |        | <u> </u>      |        | L      | <u> </u> |          |          |            | <u>L</u> .               |
| MCCOOK FUEL STOP                  | 13561172 | 1    |               |          |          |        |               |        | Ì      | 1        | ļ        |          |            |                          |
| 1/4 MI E FM 2056 ON               |          |      |               |          |          | ĺ      |               |        |        |          | X        |          |            |                          |
| EDINBURG, TX 78539                |          | L    |               |          |          |        | <u> </u>      |        |        |          | Ĺ        | ļ        | lacksquare | _                        |
| GUERRA BROTHERS, INC.             | 6529278  | 1    |               |          | _        |        |               |        |        |          | 1        | İ        |            |                          |
| 18.5 MI N EDINBURG                |          |      |               |          |          |        |               | X      | ļ      |          |          |          |            |                          |
| EDINBURG, tx                      |          |      |               |          |          |        | L             | _      |        |          |          |          |            |                          |
| DUVAL FARMS                       | 5172944  | '    |               |          |          |        |               |        |        | Ì        |          |          |            |                          |
| FM RD 1329-15 M S SAN             |          |      |               |          |          |        |               | 1      |        |          | İ        | X        |            |                          |
| EDINBURG, TX 78539                |          |      |               |          |          |        | <u> </u>      |        |        | <u> </u> | <u> </u> |          | _          | L                        |
| LOPEZ CONVENIENCE STORE           | 7426373  | 7    |               | Γ        |          |        |               | ļ      |        |          |          |          | İ          |                          |
| N HWY 281                         |          |      | İ             |          |          | -      |               |        |        |          | X        |          |            | l                        |
| EDINBURG, TX 78539                |          |      |               | l        |          |        |               |        |        | <u> </u> |          |          |            |                          |
| US DEPARTMENT OF AGRICULTURE      | 12694827 | 7    |               |          |          |        |               | -      |        |          |          | 1        |            | İ                        |
| MOORE AIR BASE                    |          |      | ĺ             |          |          |        | 1             | ļ      |        |          |          | X        |            |                          |
| EDINBURG, TX 78539                |          | 1    |               |          |          |        |               |        | 1      |          |          |          | <u> </u>   | L                        |
| A B DRIVE-IN                      | 139180   | 7    | 1             |          |          |        |               |        | T      |          |          |          |            |                          |
| S BUS 281                         |          |      |               | ì        |          |        |               |        |        |          | X        |          | ľ          |                          |
| EDINBURG, TX 78539                |          |      |               |          |          | İ      |               |        |        |          | 1        | <u> </u> |            |                          |
| EAST-SANTA FE RANCH               | 1365794  | 4    |               | Τ        | T        | T      |               |        |        |          |          |          |            |                          |
| 611 S RAILROAD                    |          |      |               |          |          |        |               |        |        |          | X        | :        | 1          |                          |
|                                   |          |      |               |          |          |        |               |        |        |          | 1        |          | l          | L                        |
| LINN, TX 78563                    | 3969808  | 8    |               | Т        |          |        | Τ             | Т      | Т      | Τ        | Γ        |          | T          | Τ                        |
| C T LANDFILL<br>FM 1017 HWY 281 N |          |      | ĺ             |          |          |        |               |        |        |          | Ì        | X        |            |                          |
|                                   |          |      |               |          |          |        | İ             |        |        |          | 1        |          | l          | Ĺ                        |
| LINN, TX 78563                    | 516892   | 7    | $\top$        | Τ~       |          | 1      |               | 1      | Т      |          | Τ        | Т        | T          | Т                        |
| A D CHEVRON                       |          |      |               | İ        |          |        |               | 1      |        |          | X        |          | 1          |                          |
| WEST HWY 107                      |          | 1    |               |          |          |        |               | 1      |        |          | İ        |          |            |                          |
| EDINBURG, TX 78539                | 698224   | 才    | $\top$        |          | $\top$   | $\top$ | T             | T      | 1      | T        | 1        |          |            |                          |
| FIKE FARMS                        |          |      |               |          |          |        |               |        |        |          |          | X        |            |                          |
| BOX 347A                          |          | -    |               |          |          |        |               |        |        |          |          | 1        |            |                          |
| EDINBURG, TX 78539                | 510842   | 3    | $\top$        | _        | 十        | $\top$ | $\top$        | $\top$ | _      | $\top$   | 1        | $\top$   |            | 1                        |
| HI JO HYDROCARBONS                | /-       |      |               |          |          |        |               | >      |        |          |          |          |            |                          |
| E FM 1926                         |          |      |               |          |          |        |               |        |        |          |          |          |            |                          |
| EDINBURG, tx                      | 259098   | 7    | +             | $\top$   | +        | 1      | $\top$        | -      | $\top$ | $\top$   | $\top$   | 1        |            | 1                        |
| FFP #680                          | 201000   |      |               |          |          |        |               |        |        |          | ١×       | ا        |            |                          |
| BOX 13M                           |          |      |               |          |          |        |               |        |        |          | [        |          |            |                          |
| EDINBURG, TX 78539                |          |      | Ш             | Щ.       |          | —      |               |        |        |          |          |          |            |                          |



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|                                      |          |     |               |     | _        |  |               | Α        | _        | _  |              |          |          |                          |
|--------------------------------------|----------|-----|---------------|-----|----------|--|---------------|----------|----------|--|--------------|----------|----------|--------------------------|
| UNMAPPED SITES                       | VISTA ID | NPL | CORRACTS(TSD) | SPL | RCRA ISD | SCL                                    | CERCLIS/NFRAP | LUST     | SWLF     | TRIS   | UST          | AST      | GNRTR    | <b>ERNS SPILLS-STATE</b> |
| JACK WALLACE EQUIPMENT               | 13624473 |     |               |     |          |  |               |          |          |  |              |          |          |                          |
| 1/2 MI WALLACE RD                    |          |     |               |     |          |  |               |          |          |  |              | X        |          |                          |
| EDINBURG, TX 78539                   |          |     |               | _   |          |  |               | _        | _        |  |              |          | _        |                          |
| MOBIL PROD TXNM EDINBURG FIELD WAREH | 279803   |     |               |     |          |  |               |          |          |  |              |          |          | . !                      |
| ROUTE 2 BOX 176A                     |          |     |               |     |          |  |               |          | i i      |  |              |          | Х        |                          |
| EDINBURG, TX 78539                   | 2522110  |     |               | _   | _        | _                                      | <u> </u>      | -        | <u> </u> | -  | <u> </u>     | $\vdash$ | _        |                          |
| LINN FEED SEED SUPPLY                | 6530443  |     |               |     |          |  |               |          |          | Ì  |              |          |          |                          |
| HWY 281                              |          |     |               |     |          |  |               | X        |          |  |              |          |          |                          |
| EDINBURG, tx                         | 5168931  | _   | -             | -   | -        | -                                      |               | -        |          | -  | -            | -        |          | -                        |
| WAGNER, OTTO SR                      | 3108931  |     |               |     |          |  |               |          |          |  |              | х        |          |                          |
| BOX 186                              |          |     |               |     |          |  |               |          | 1        | 1  |              | ^        |          |                          |
| EDINBURG, TX 78540                   | 5168929  | -   | -             | -   | -        | -                                      | -             | $\vdash$ | -        | <del>                                     </del> | -            |          |          |                          |
| SUN-UP, THE FOOD STORE<br>BOX 58     |          | 1   |               |     | 1        |  |               |          |          | 1  | x            |          |          |                          |
| EDINBURG, TX 78540                   |          |     |               |     | 1        | Ì                                      |               |          |          |  |              |          |          |                          |
| PORTER OIL LPG CO                    | 5168901  |     |               |     |          |  |               |          |          |  |              |          |          |                          |
| PO BOX 242                           |          | 1   |               | !   | l        |  |               | !        | 1        |  | X            |          |          |                          |
| MCALLEN, TX 78505                    |          |     |               |     | L_       |  | L.            | L        | _        |  |              |          |          |                          |
| FUEL STOP                            | 6612180  |     |               |     |          |  |               |          |          |  |              |          |          |                          |
| HWY 681                              |          |     |               |     | 1        |  |               | X        |          |  | 1            |          |          |                          |
| MCCOOK, tx                           |          | L   | _             | L   | <u> </u> | _                                      | _             | <u> </u> | L        | L.   | _            |          |          | _                        |
| KOTZUR FARMS                         | 2591834  |     |               |     |          |  |               | 1 -      | 1        |  |              |          |          |                          |
| BOX 158                              |          |     |               |     | i        |  |               |          |          |  |              | X        |          |                          |
| EDINBURG, TX 78540                   | 100/070  | -   | <del> </del>  | 1-  | -        | +-                                     | <del> </del>  | -        | -        | 1-   | <del> </del> | -        | <u> </u> | <del>  -</del>           |
| DIANA SALAZAR DBA A T DRIVE IN       | 1384076  |     |               | 1   |          |  |               |          |          |  | -            |          |          |                          |
| PO BOX 2287                          |          |     |               | 1   | 1        |  |               |          | 1        | Ì  | X            |          |          |                          |
| MISSION, TX 78573                    |          |     | <u>_</u>      | Щ.  | 1        | _ـــــــــــــــــــــــــــــــــــــ | Ц.            | 1_       | <u>_</u> | 1_   | <u></u>      | 1        | L-       | L_                       |



# SITE ASSESSMENT - SPECIAL PROJECT (ALL DATABASES SEARCHED TO 1 MILE)

## **DETAILS**

#### PROPERTY AND THE ADJACENT AREA (within 1 mile)

| VISTA          | CITY OF EDINBURG                |   | VISTA ID#:          | 3049048      |  |  |
|----------------|---------------------------------|---|---------------------|--------------|--|--|
| Address*:      | .4M E OF US281, 6.7M N OI       | F FDINBURG C  | Distance/Direction: |              |  |  |
|                | EDINBURG, TX                    |   | Plotted as:         | Point        |  |  |
| STATE SWLF -   | Solid Waste Landfill / SRC# 670 | 9   | Agency ID:          | 956.000      |  |  |
| Agency Ac      | ldress:                         | SAME AS ABOVE   |                     | <del>*</del> |  |  |
| Facility Typ   | e:                              | SANITARY LANDFILL/LANDFILL                                  | e e                 |              |  |  |
| Facility Stat  | tus:                            | PREVIOUSLY APPROVED SITE                                    |                     |              |  |  |
| Facility Life  | Facility Life: NOT REPORTED     |   |                     |              |  |  |
| Permit Statu   | JS:                             | PERMITTED/LICENSED  |                     |              |  |  |
| Waste:         |                                 | NOT REPORTED  |                     |              |  |  |
| STATE SWLF -   | Solid Waste Landfill / SRC# 670 | 9   | Agency ID:          | 956.000      |  |  |
| Agency Ad      | dress:                          | EDINBURG, CITY OF<br>6.7M N OF EDINBURG .4M E OF<br>URG, TX | T US 281            |              |  |  |
| Facility Typ   | e:                              | SANITARY LANDFILL/LANDFILL                                  |                     |              |  |  |
| Facility Stat  | us:                             | PROPOSED  |                     | <b>-</b>     |  |  |
| Facility Life: | :                               | NOT REPORTED  |                     |              |  |  |
| Permit Statu   | ıs:                             | COMBINED WITH ANOTHER PER                                   | PMIT                |              |  |  |
| Waste:         |                                 | NOT REPORTED  |                     |              |  |  |

|                       | L MART                         |               | VISTA ID#:         | 5737580      |
|-----------------------|--------------------------------|---------------|--------------------|--------------|
| Address*: N H         | IWY 281 (FAYSVILLE)            |               | Distance/Direction | .0.75 MI / W |
| 1                     | NBURG, TX 78539                |               | Plotted as:        | Point        |
| STATE UST - State     | <b>Underground Storage Tan</b> | k / SRC# 6708 | Agency ID:         | 0030772      |
| Agency Addres         | S:                             | SAME AS ABOVE | <del></del>        | <del></del>  |
| <b>Underground Ta</b> | nks:                           | 3             |                    |              |
| Aboveground T         | anks:                          | NOT REPORTED  |                    |              |
| Tanks Removed         | <b>l:</b>                      | NOT REPORTED  |                    |              |
| Tank ID:              | U1                             | Tank Status:  | ACTIVE/IN SER      | VICE         |
| Tank Contents:        | GASOLINE (UNSPECIFIED)         | Leak Monito   | ring: MONITOR PRES | SENT         |
| Tank Age:             | 16                             | Tank Piping:  | SINGLE WALL        |              |
| Tank Size (Units)     | : 8000 (GALLONS)               | Tank Materia  | al: STEEL          |              |
| Tank ID:              | U2                             | Tank Status:  | ACTIVE/IN SER      | VICE         |
| Tank Contents:        | GASOLINE (UNSPECIFIED)         | Leak Monito   | ring: MONITOR PRES | SENT         |
| Tank Age:             | 16                             | Tank Piping:  | SINGLE WALL        |              |
| Tank Size (Units)     | : 6000 (GALLONS)               | Tank Materia  | al: STEEL          |              |



\* VISTA address includes enhanced city and ZIP.

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Map ID

1

MapID

| Tomb ID                   | U3              |  | 070.00.00.00.00.00.00.00.00.00.00.00.00. |  |  |  |  |
|---------------------------|-----------------|--|--|--|--|--|--|
| Tank ID:                  |                 | Tank Status:   | ACTIVE/IN SERVICE                        |  |  |  |  |
| Tank Contents:            | DIESEL          | Leak Monitoring:   | NO MONITOR                               |  |  |  |  |
| Tank Age:                 | 16              | Tank Piping:   | WALLED/DOUBLE WALLED                     |  |  |  |  |
| Tank Size (Units):        | 10000 (GALLONS) | Tank Material:   | STÉEL                                    |  |  |  |  |
| Tank ID#:                 |                 | U1   |  |  |  |  |  |
| Tank Installed Date       | / Age:          | 01/01/1984   |  |  |  |  |  |
| Description / Comment:    |                 | TANK MONITOR: INVENTORY CONTROLPIPE MONITOR: NONE            |  |  |  |  |  |
| Description / Comn        | nent:           | OWNER: LA LOMITA, INC2105 REMINGTON AVEEDINBURG,TX 785393    |  |  |  |  |  |
| Tank ID#:                 |                 | U3   |  |  |  |  |  |
| Tank Installed Date       | / Age:          | 01/01/1984   |  |  |  |  |  |
| Description / Comn        | nent:           | TANK MONITOR: NONEPIPE MONITOR:                              | NONE                                     |  |  |  |  |
| <b>Description / Comn</b> | nent:           | OWNER: LA LOMITA, INC2105 REMINO                             | GTON AVEEDINBURG,TX 785393931            |  |  |  |  |
| Tank ID#:                 |                 | U2   |  |  |  |  |  |
| Tank Installed Date       | / Age:          | 01/01/1984   |  |  |  |  |  |
| Description / Comn        | nent:           | TANK MONITOR: INVENTORY CONTROL-                             | -PIPE MONITOR: NONE                      |  |  |  |  |
| Description / Comm        | nent:           | OWNER: LA LOMITA, INC2105 REMINGTON AVEEDINBURG,TX 785393931 |  |  |  |  |  |

| Address*:   | P.O. BOX 1601<br>EDINBURG, TX 78539 |   | Distance/Direction Plotted as:                   | on: 0.79 MI / W<br>Point |
|-------------|-------------------------------------|---|--|--------------------------|
| NFRAP / SR  | <del></del>                         |   | EPA ID:  | TXD981047871             |
| Agency A    | ddress:                             | SAME AS ABOVE                                       |  |                          |
| Site Descri | ption:                              | THE SITE IS THE LOCATION<br>WASTE MAY BE TREATED, S | OF A PESTICIDE APPLICATOR<br>STORED OR DISPOSED. | WHERE HAZARDOUS          |
| EPA Regio   | n:                                  | 6   |  |                          |
| Congression | onal District:                      | 0   |  |                          |
| Federal Fa  | cility:                             | Agency Code ()                                      |  |                          |
| Facility Ov | vnership:                           | OTHER   |  |                          |
| Site Incide | nt Category:                        | unknown   |  |                          |
| Federal Fa  | cility Docket:                      | SITE IS NOT INCLUDED ON                             | THE DOCKET                                       |                          |
| NPL Status: | :                                   | NOT ON NPL  |  |                          |
| Incident Ty | /pe:                                | Unknown   |  |                          |
| -           | NPL Update #:                       | 0   |  |                          |
| Final NPL U | •                                   | 0   |  |                          |

NOT REPORTED

Agency Code ()

Unknown

Unknown

12110208 Unknown



Latitude: Longitude:

Dioxin Tier:

Unit Name:

Unit Id:

Lat/Long Source:

**USGS Hydro Unit:** 

RCRA Indicator:

Lat/Long Accuracy:

VISTA

ILLINI HELICOPTER

Financial Management System ID:

ENTIRE SITE

VISTA ID#:

206226

\* VISTA address includes enhanced city and ZIP.

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DISCOVERY Type: EPA FUND-FINANCED Lead Agency: UNKNOWN Qualifier: Unknown Category: NOT REPORTED Name: **Actual Start Date:** NOT REPORTED Unknown Plan Status: UNKNOWN **Actual Completion** Date: PRELIMINARY ASSESSMENT Type: STATE, FUND FINANCED Lead Agency: NO FURTHER REMEDIAL ACTION Qualifier: Unknown Category: **PLANNED** UNKNOWN **Actual Start Date:** NOT REPORTED Name: UNKNOWN **Actual Completion** Unknown **Plan Status:** Date:

VISTA ID#:

1394603

| Address*: US 281      | FM 2812                |               | Distance/Direction | n: 0.81 MI / SW    |
|-----------------------|------------------------|---------------|--------------------|--------------------|
| EDINBL                | IRG, TX 78539          |               | Plotted as:        | Point              |
| STATE UST - State Und | erground Storage Tan   | k / SRC# 6708 | Agency ID:         | 0033774            |
| Agency Address:       |                        | SAME AS ABOVE |                    | <del></del>        |
| Underground Tanks:    | }                      | 9             |                    |                    |
| Aboveground Tanks     | <b>5:</b>              | NOT REPORTED  |                    |                    |
| Tanks Removed:        |                        | 5             |                    |                    |
| Tank ID:              | U1                     | Tank Status   | : REMOVED          |                    |
| Tank Contents:        | GASOLINE (UNSPECIFIED) | Leak Monit    | oring: NO MONITOI  | ₹                  |
| Tank Age:             | 11                     | Tank Piping   | : ANTI-CORRO       | SIVE               |
| Tank Size (Units):    | 3000 (GALLONS)         | Tank Mater    | ial: STEEL         |                    |
| Tank ID:              | U1A                    | Tank Status   | : ACTIVE/IN SE     | RVICE              |
| Tank Contents:        | DIESEL                 | Leak Monit    | oring: MONITOR PR  | ESENT              |
| Tank Age:             | 3                      | Tank Piping   | SINGLE WALL        |                    |
| Tank Size (Units):    | 20000 (GALLONS)        | Tank Mater    | ial: FIBERGLASS R  | REINFORCED PLASTIC |
| Tank ID:              | U2                     | Tank Status   | REMOVED            |                    |
| Tank Contents:        | GASOLINE (UNSPECIFIED) | Leak Monit    | oring: NO MONITO   | २                  |
| Tank Age:             | 11                     | Tank Piping   | : ANTI-CORRO       | SIVE               |
| Tank Size (Units):    | 8000 (GALLONS)         | Tank Mater    | ial: STEEL         |                    |
| Tank ID:              | U2A                    | Tank Status   | ACTIVE/IN SE       | RVICE              |
| Tank Contents:        | DIESEL                 | Leak Monit    | oring: MONITOR PR  | ESENT .            |
| Tank Age:             | 3                      | Tank Piping   | : SINGLE WALL      |                    |
| Tank Size (Units):    | 20000 (GALLONS)        | Tank Mater    | ial: FIBERGLASS R  | REINFORCED PLASTIC |
| Tank ID:              | U3                     | Tank Status   | REMOVED            |                    |
| Tank Contents:        | DIESEL                 | Leak Monito   | oring: MONITOR PR  | ESENT              |
| Tank Age:             | 19                     | Tank Piping   | : SINGLE WALL      |                    |
| Tank Size (Units):    | 1000 (GALLONS)         | Tank Mater    | ial: FIBERGLASS R  | PEINFORCED PLASTIC |
| Tank ID:              | U3A                    | Tank Status   | ACTIVE/IN SE       | RVICE              |
| Tank Contents:        | GASOLINE (UNSPECIFIED) | Leak Monito   | oring: MONITOR PR  | ESENT              |
| Tank Age:             | 3                      | Tank Piping   | -                  |                    |
| Tank Size (Units):    | 10000 (GALLONS)        | Tank Mater    | ial: FIBERGLASS R  | EINFORCED PLASTIC  |



**VISTA** 

EDINBURG AUTO TRUCK STOP

\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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MapiD

| Tank ID:                   | U4                                     |             | Tank Status:                                 | REMOVED                           |
|----------------------------|--|-------------|--|-----------------------------------|
| Tank Contents:             | DIESEL                                 |             | Leak Monitoring:                             | MONITOR PRESENT                   |
| Tank Age:                  | 19                                     |             | Tank Piping:                                 | SINGLE WALL                       |
| Tank Size (Units):         | 8000 (GALLONS)                         |             | Tank Material:                               | FIBERGLASS REINFORCED PLASTIC     |
| Tank ID:                   | U5                                     |             | Tank Status:                                 | REMOVED                           |
| Tank Contents:             | DIESEL                                 |             | Leak Monitoring:                             | MONITOR PRESENT                   |
| Tank Age:                  | 19                                     |             | Tank Piping:                                 | SINGLE WALL                       |
| Tank Size (Units):         | 8000 (GALLONS)                         |             | Tank Material:                               | FIBERGLASS REINFORCED PLASTIC     |
| Tank ID:                   | U6A                                    |             | Tank Status:                                 | ACTIVE/IN SERVICE                 |
| Tank Contents:             | GASOLINE (UNSPECIFIED)                 |             | Leak Monitoring:                             | MONITOR PRESENT                   |
| Tank Age:                  | 10                                     |             | Tank Piping:                                 | SINGLE WALL                       |
| Tank Size (Units):         | 8000 (GALLONS)                         |             | Tank Material:                               | FIBERGLASS REINFORCED PLASTIC     |
| Tank ID#:                  |  | U1          |  |                                   |
| Tank Installed Date /      | Age:                                   | 01/01/1978  |  |                                   |
| Tank Removal Date:         |  | 09/12/1989  |  |                                   |
| Description / Commo        | ent:                                   | TANK MONIT  | OR: NONEPIPE MONITOR                         | : NONE                            |
| <b>Description / Commo</b> | ent:                                   | OWNER: EDII | NBURG AUTO TRUCK STOP                        | INCRT 5 BOX 2076EDINBURG,TX 78539 |
| Tank ID#:                  |  | U5          |  |                                   |
| Tank Installed Date /      | Age:                                   | 01/01/1978  |  |                                   |
| Tank Removal Date:         |  | 02/07/1997  |  |                                   |
| Description / Comme        | ent:                                   |             | OR: AUTO IN-TANK MONIT<br>NE LEAK DETECTORS  | ORING INVENTORY CONTROLPIPE       |
| Description / Comme        | ent:                                   | OWNER: EDII | NBURG AUTO TRUCK STOP                        | INCRT 5 BOX 2076EDINBURG,TX 78539 |
| Tank ID#:                  |  | U4          |  |                                   |
| Tank Installed Date /      | Age:                                   | 01/01/1978  |  | -                                 |
| Tank Removal Date:         |  | 02/07/1997  |  | -                                 |
| Description / Comme        | ent:                                   |             | OR: AUTO IN-TANK MONITO<br>NE LEAK DETECTORS | ORING INVENTORY CONTROLPIPE       |
| Description / Comme        | ent:                                   |             |  | INCRT 5 BOX 2076EDINBURG,TX 78539 |
| Tank ID#:                  | ······································ | U3          |  |                                   |
| Tank Installed Date /      | Age:                                   | 01/01/1978  |  |                                   |
| Tank Removal Date:         |  | 02/07/1997  |  |                                   |
| Description / Comme        | ent:                                   |             | OR: AUTO IN-TANK MONITO<br>NE LEAK DETECTORS | ORING INVENTORY CONTROLPIPE       |
| Description / Comme        | ent:                                   |             |  | INCRT 5 BOX 2076EDINBURG,TX 78539 |
| Tank ID#:                  |  | U2          |  |                                   |
| Tank Installed Date /      | Age:                                   | 01/01/1978  |  |                                   |
| Tank Removal Date:         |  | 09/12/1989  |  |                                   |
| Description / Comme        | ent:                                   | TANK MONITO | OR: NONEPIPE MONITOR.                        | NONE                              |
| Description / Comme        | ent:                                   | OWNER: EDIN | IBURG AUTO TRUCK STOP                        | NCRT 5 BOX 2076EDINBURG,TX 78539  |
| Tank ID#:                  |  | U6A         |  |                                   |
| Tank Installed Date /      | Age:                                   | 09/01/1990  |  | -                                 |
| Description / Comme        |  |             | OR: AUTO IN-TANK MONITO<br>NE LEAK DETECTORS | DRING INVENTORY CONTROLPIPE       |
| Description / Comme        | ent:                                   |             |  | NCRT 5 BOX 2076EDINBURG,TX 78539  |
| Tank ID#:                  |  | U1A         |  |                                   |
| Tank Installed Date /      | Age:                                   | 01/20/1997  |  |                                   |
|                            | <u> </u>                               |             |  |                                   |



\* VISTA address includes enhanced city and ZIP.
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| Description / Comments     | TANK MONITOR: AUTO IN TANK MONITORING AUGUST  |
|----------------------------|---|
| Description / Comment:     | TANK MONITOR: AUTO IN-TANK MONITORING INVENTORY CONTROLPIPE                                 |
|                            | MONITOR: LINE LEAK DETECTORS  |
| Description / Comment:     | OWNER: EDINBURG AUTO TRUCK STOP INCRT 5 BOX 2076EDINBURG,TX 78539                           |
| Tank ID#:                  | U2A   |
| Tank Installed Date / Age: | 01/20/1997  |
| Description / Comment:     | TANK MONITOR: AUTO IN-TANK MONITORING INVENTORY CONTROLPIPE                                 |
|                            | MONITOR: LINE LEAK DETECTORS  |
| Description / Comment:     | OWNER: EDINBURG AUTO TRUCK STOP INC RT 5 BOX 2076 EDINBURG, TX 78539                        |
| Tank ID#:                  | U3A   |
| Tank Installed Date / Age: | 01/20/1997  |
| Description / Comment:     | TANK MONITOR: AUTO IN-TANK MONITORING INVENTORY CONTROLPIPE<br>MONITOR: LINE LEAK DETECTORS |
| Description / Comment:     | OWNER: EDINBURG AUTO TRUCK STOP INC RT 5 BOX 2076 EDINBURG, TX 78539                        |
|                            |   |



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## **UNMAPPED SITES**

| VISTA LONG         | GWELL FARMS, INC                       |  | VISTA  | ID#:      | 249471                    |
|--------------------|--|--|--|-----------|---------------------------|
| A 1 1 in 1         | RD OFF FM490 1.5MI V                   | V FM88                                   |  |           |                           |
| HAR                | GILL, TX 78549                         |  | •  |           |                           |
| IFRAP / SRC# 6475  |  |  | EPA I  | D:        | TXD981600976              |
| Agency Address:    |  | LONGWELL I<br>DIRT RD OFF<br>HARQILL, TX | FM490 1.5MI W FM88                                 |           |                           |
| Alias Name:        |  | LONGWELL                                 |  |           |                           |
| Alias Street:      |  | NOT REPORT                               | TED  |           |                           |
| Alias City:        | WILLACY                                |  | Alias Latitude:                                    | 0         |                           |
| Alias Zip:         | NOT REPORTED                           |  | Alias Longitude:                                   | 0         |                           |
| Alias State:       | ΤΧ                                     |  |  |           |                           |
| Alias Description: |  | NOT REPORT                               | TED .  | ·         |                           |
| Site Description:  |  |  | IE LOCATION OF A GROVE<br>N OF HERBICIDES AND INSE |           | ESS INVOLVED IN THE GROUN |
| EPA Region:        |  | 6  |  |           |                           |
| Congressional Dis  | strict:                                | 0  |  |           |                           |
| Federal Facility:  |  | Agency Cod                               | de ()  |           |                           |
| Facility Ownership | o:                                     | OTHER                                    |  |           |                           |
| Site Incident Cate | egory:                                 | unknown                                  |  |           |                           |
| Federal Facility D | ocket:                                 | SITE IS NOT II                           | NCLUDED ON THE DOCKET                              |           |                           |
| NPL Status:        |  | NOT ON NPL                               |  |           |                           |
| Incident Type:     |  | Unknown                                  |  |           |                           |
| Proposed NPL Upo   | date #:                                | 0  |  |           |                           |
| Final NPL Update   |  | 0  |  |           | -                         |
| Financial Manage   |  | NOT REPORT                               | TED .  |           |                           |
| Latitude:          | •••••••••••••••••••••••••••••••••••••• | 0  |  |           |                           |
| Longitude:         |  | 0  |  |           |                           |
| Lat/Long Source:   |  | Agency Cod                               | de ()  |           |                           |
| Lat/Long Accurac   | ev:                                    | Unknown                                  |  |           |                           |
| Dioxin Tier:       | - <b>J</b> .                           | Unknown                                  |  |           |                           |
| USGS Hydro Unit:   |  | 12110208                                 |  |           |                           |
| RCRA Indicator:    |  | Unknown                                  |  |           |                           |
| Unit Id:           |  | 0  |  |           |                           |
| Unit Name:         |  | ENTIRE SITE                              |  |           |                           |
| Type:              | DISCOVERY                              | <del></del> -                            | Lead Agency:                                       | STATE, FU | IND FINANCED              |
| Qualifier:         | UNKNOWN                                |  | Category:  | Unknown   | 1                         |
| Name:              | NOT REPORTED                           |  | Actual Start Date:                                 | NOT REP   | ORTED                     |
| Plan Status:       | Unknown                                |  | Actual Completion                                  | UNKNON    | /N                        |
| Туре:              | PRELIMINARY ASSESSMENT                 |  | Lead Agency:                                       | STATE, FU | IND FINANCED              |
| Qualifier:         | LOWER PRIORITY                         |  | Category:  | Unknown   |                           |
| Name:              | NOT REPORTED                           |  | Actual Start Date:                                 | UNKNON    | /N                        |
| Plan Status:       | Unknown                                |  | Actual Completion Date:                            | UNKNON    | /N                        |



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Type:

SCREENING SITE INSPECTION

NO FURTHER REMEDIAL ACTION

Lead Agency:

STATE, FUND FINANCED

Qualifier:

PLANNED

Category:

Unknown

Name:

NOT REPORTED

**Actual Start Date:** 

NOT REPORTED

Plan Status:

Unknown

**Actual Completion** 

UNKNOWN

Date:

VISTA Address\*: NICKELL AERIAL CROP CARE

P.O. BOX 160 FM 490E

HARGILL, TX 78549

VISTA ID#:

EPA ID:

297086

TXD981047608

NFRAP / SRC# 6475

**Agency Address:** Site Description:

SAME AS ABOVE

THE SITE IS THE LOCATION OF A PESTICIDE APPLICATOR WHERE HAZARDOUS

WASTE MAY BE TREATED, STORED OR DISPOSED.

**EPA Region:** 

**Congressional District:** 

Federal Facility:

Agency Code ()

0

Facility Ownership:

Site Incident Category:

**Financial Management System ID:** 

OTHER unknown

Federal Facility Docket:

SITE IS NOT INCLUDED ON THE DOCKET

**NPL Status:** 

Incident Type:

NOT ON NPL Unknown

Proposed NPL Update #:

a

Final NPL Update #:

NOT REPORTED

Latitude:

O

Lonaitude:

0

Lat/Long Source:

Agency Code () Unknown

Lat/Long Accuracy:

Unknown

Dioxin Tier: **USGS Hydro Unit:** 

12110208

Unknown

**RCRA Indicator:** 

**Unit Name:** 

ENTIRE SITE

Type:

Unit Id:

DISCOVERY

Lead Agency:

EPA FUND-FINANCED

Qualifier:

UNKNOWN

Category:

Unknown

Name:

NOT REPORTED

**Actual Start Date:** 

NOT REPORTED UNKNOWN

Plan Status:

Unknown

**Actual Completion** 

Type:

PRELIMINARY ASSESSMENT

NO FURTHER REMEDIAL ACTION

Lead Agency: Category:

STATE, FUND FINANCED Unknown

Qualifier:

PLANNED

Actual Start Date:

UNKNOWN

Name:

**NOT REPORTED** 

**Actual Completion** 

Plan Status:

Unknown

UNKNOWN

Date:

Date:



\* VISTA address includes enhanced city and ZIP.

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| CL - State Equivalent CERCLIS | List / SRC# 6559 | EPA ID: | TXD981047608 |
|-------------------------------|------------------|---------|--------------|
| Agency Address:               | SAME AS ABOVE    |         |              |
| Status:                       | UNKNOWN          |         |              |
| Facility Type:                | NOT AVAILABLE    |         |              |
| Lead Agency:                  | NOT AVAILABLE    |         |              |
| State Status:                 | NOT AVAILABLE    |         |              |
| Pollutant 1:                  | UNKNOWN          |         |              |
| Pollutant 2:                  | UNKNOWN          |         |              |
| Pollutant 3:                  | UNKNOWN          |         |              |

| VISTA<br>Address*; | US DEPT OF AGRICULTURE, APHI<br>N 7 MILES HWY 681<br>EDINBURG, TX 78539 | 3                 | VISTA ID#:                            | 1786621                             |
|--------------------|---|-------------------|---------------------------------------|-------------------------------------|
| STATE LUST -       | State Leaking Underground Storage                                       | ank / SRC# 6711   | EPA/Agency ID:                        | N/A                                 |
| Agency A           | HWY E<br>EDINB  | IRG, tx 78539     |                                       |                                     |
| Facility ID:       | 00561   | 7                 |                                       |                                     |
| Leak ID#:          | 09795   |                   |                                       |                                     |
| Leak Repo          | ort Date: 02/07.  | 1991              |                                       |                                     |
| Region / D         | Pistrict: HARLI   | GEN               |                                       |                                     |
| Responsibl         | le Party: USDE  | PT OF AGRICULTURE |                                       |                                     |
| Description        | RAPRE<br>CLOSE  |                   | AL CONCURRENCE ISSUEL<br>FO: RR 3 BOX | RES FULL SITE ASSESSMENT<br>D, CASE |

| VISTA<br>Address*: | TRUCKING STORAG<br>HWY 281 | E  | VISTA ID#:                            | 1407224 |
|--------------------|----------------------------|--|---------------------------------------|---------|
|                    | LINN, TX 78563             |  |                                       |         |
| STATE LUST -       | State Leaking Undergro     | und Storage Tank / SRC# 6711   | EPA/Agency ID:                        | N/A     |
| Agency A           | ddress:                    | TRUCKING STORAGE<br>HWY 281<br>LINN, tx 78563  |                                       |         |
| Facility ID:       |                            | 0047670  |                                       |         |
| Leak ID#:          |                            | 110001   |                                       |         |
| Leak Repo          | ort Date:                  | 11/03/1995   |                                       |         |
| Region / D         | istrict:                   | HARLINGEN  |                                       |         |
| Responsib          | le Party:                  | L M B CORP   |                                       |         |
| Description        | n / Comment:               | MEDIA AFFECTED: NO GW IMF<br>TORECEPTORSREMEDIATION S<br>CLOSEDRESPONSIBLE PARTY IN<br>593,MISSION,TX, 785730593,210 | TATUS: FINAL CONCURRE.<br>IFO: PO BOX |         |



\* VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403. Report ID: **308492001** Version 2.6.1 Date of Report: March 7, 2000

| VISTA                  | HELDT BROS TRUCK      | HELDT BROS TRUCKING CO                               |  | 3346712      |  |
|------------------------|-----------------------|--|--|--------------|--|
| Address*:              | N HWY 281             |  |  |              |  |
|                        | EDINBURG, tx 7853     | 9  |  |              |  |
| TATE LUST -            | State Leaking Undergr | ound Storage Tank / SRC# 6711                        | EPA/Agency ID:   | N/A          |  |
| Agency A               | ddress:               | SAME AS ABOVE  |  | <del> </del> |  |
| Facility ID:           |                       | 0021265  |  |              |  |
| Leak ID#:              | <b>#:</b> 100884      |  |  |              |  |
| Leak Repo              | rt Date:              | 11/15/1991   |  | <del> </del> |  |
| Region / D             | istrict:              | HARLINGEN  |  |              |  |
| Responsibl             | e Party:              | BILL NICOL TRANS. SERVICE IN                         | c  |              |  |
| Description / Comment: |                       | CHARACTERIZATIONINCOMPL<br>ISSUED, CASE CLOSEDRESPON | MEDIA AFFECTED: GROUNDWATER OTHER THAN 18, SITE<br>CHARACTERIZATIONINCOMPLETEREMEDIATION STATUS: FINAL CONCURRENCE<br>ISSUED, CASE CLOSEDRESPONSIBLE PARTY INFO: 2605 N CLOSNER<br>BLVD.EDINBURG, TX. 78539,956/316-3305 |              |  |

|                  |                       |                    | (,70009,9007570-0000                          |               |  |  |
|------------------|-----------------------|--------------------|---|---------------|--|--|
| VISTA            | MARTIN FARM RANCH     |                    | VISTA   | D#:           | 259941   |  |
| Address*:        | ROUTE 4 BOX 473       |                    |   |               |  |  |
|                  | EDINBURG, TX 78539    |                    | ļ   |               |  |  |
| NFRAP / SRO      |                       |                    | EPA ID  |               | TXD981048499                                     |  |
| Agency A         | <del></del>           | SAME AS ABOVE      |   | •             | TIXD301040499                                    |  |
| Site Descri      |                       |                    | CATION OF A PESTICIDA<br>FATED, STORED OR DIS |               | HERE HAZARDOUS                                   |  |
| <b>EPA Regio</b> | n:                    | 6                  | <del></del>                                   |               | <del></del>                                      |  |
| Congression      | onal District:        | 0                  |   |               |  |  |
| Federal Fa       | cility:               | Agency Code ()     |   |               |  |  |
| Facility Ow      | nership:              | OTHER              |   |               | _  |  |
| Site Incide      | nt Category:          | unknown            |   |               |  |  |
| Federal Fa       | cility Docket:        | SITE IS NOT INCLUD | DED ON THE DOCKET                             |               |  |  |
| NPL Status:      | -                     | NOT ON NPL         |   |               |  |  |
| Incident Ty      | pe:                   | Unknown            |   |               |  |  |
| _                | NPL Update #:         | 0                  |   |               |  |  |
| Final NPL U      | •                     | 0                  |   |               |  |  |
| Financial N      | Nanagement System ID: | NOT REPORTED       |   |               |  |  |
| Latitude:        | o ,                   | o                  |   |               |  |  |
| Longitude:       |                       | 0                  |   |               |  |  |
| Lat/Long So      |                       | Agency Code ()     |   |               |  |  |
| Lat/Long A       |                       | Unknown            |   |               |  |  |
| Dioxin Tier:     | <u>-</u>              | Unknown            |   |               |  |  |
| USGS Hydr        | o Unit:               | 12110208           |   |               |  |  |
| RCRA Indic       |                       | Unknown            |   |               |  |  |
| Unit Id:         |                       | ō                  | ······································        | •             | <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del> |  |
| Unit Name        | :                     | ENTIRE SITE        |   |               |  |  |
| Туре:            | DISCOVERY             | Lea                | d Agency:                                     | EPA FUND-FINA | ANCED  |  |
| Qualifier:       | UNKNOWN               |                    | egory:  | Unknown       |  |  |
| Name:            | NOT REPORTED          |                    | ual Start Date:                               | NOT REPORTED  | )  |  |
| Plan Status      | : Unknown             |                    | ual Completion                                | UNKNOWN       |  |  |



Type:

PRELIMINARY ASSESSMENT

Qualifier:

NO FURTHER REMEDIAL ACTION

Lead Agency:

STATE, FUND FINANCED

**PLANNED** 

Category:

Unknown

Name:

NOT REPORTED

**Actual Start Date:** 

UNKNOWN

Plan Status:

Unknown

**Actual Completion** 

UNKNOWN

Date:

VISTA Address\*: UNION Y DIGNIDAD INC

1/4 MI S FM 490 2 MI W 281

EDINBURG, TX 78539

VISTA ID#:

EPA ID:

443063

TXD980697403

NFRAP / SRC# 6475

**Agency Address:** 

SAME AS ABOVE

**EPA Region:** 

6

Congressional District:

Federal Facility:

Agency Code ()

**Facility Ownership:** Site Incident Category:

**OTHER** unknown

Federal Facility Docket:

SITE IS NOT INCLUDED ON THE DOCKET NOT ON NPL

**NPL Status:** Incident Type:

Unknown

Proposed NPL Update #:

0

Final NPL Update #:

Financial Management System ID:

NOT REPORTED

Latitude:

Longitude:

Lat/Long Source:

Agency Code ()

Lat/Long Accuracy:

Unknown

**Dioxin Tier:** 

Unknown 12110208

**USGS Hydro Unit: RCRA Indicator:** 

Unknown

Unit Id:

0

**Unit Name:** 

ENTIRE SITE

Type:

DISCOVERY

Lead Agency:

EPA FUND-FINANCED

Qualifier:

UNKNOWN

Category:

Unknown

Name:

NOT REPORTED

Actual Start Date:

NOT REPORTED

Plan Status:

Unknown

**Actual Completion** 

UNKNOWN

Date:

Type:

PRELIMINARY ASSESSMENT

**Lead Agency:** 

EPA FUND-FINANCED

Page #19

Qualifier:

NO FURTHER REMEDIAL ACTION **PLANNED** 

Category: **Actual Start Date:** 

Unknown UNKNOWN

Name: Plan Status:

NOT REPORTED Unknown

**Actual Completion** 

UNKNOWN

Date:



| VISTA<br>Address*:        | SAN MANUEL BUTANE<br>N HWY 281 |   | VISTA ID#:           | 5265632      |
|---------------------------|--------------------------------|---|----------------------|--------------|
|                           | LINN, tx 78563                 |   |                      |              |
| TATE LUST -               | State Leaking Underground S    | torage Tank / SRC# 6711   | EPA/Agency ID:       | N/A          |
| Agency Ad                 | ddress:                        | SAN MANUEL BUTANE<br>N HWY 281<br>SAN MANUEL, tx 78563<br>0020563                     |                      |              |
| Facility ID:<br>Leak ID#: |                                | 101825  |                      |              |
| Leak Repo                 | rt Date:                       | 02/11/1992  |                      |              |
| Region / D                |                                | HARLINGEN   |                      | <del></del>  |
| Responsibl                | e Party:                       | CHAPA PAT   |                      | <del></del>  |
| Description               | n / Comment:                   | MEDIA AFFECTED: MINOR SOIL<br>REQUIREDREMEDIATION STATU<br>CLOSEDRESPONSIBLE PARTY IN | S: FINAL CONCURRENCE | ISSUED, CASE |

| DOTA I            | 10.0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  | T                                    |                            |  |  |
|-------------------|--|--|--------------------------------------|----------------------------|--|--|
| l a -1 -1 + -   T | IM LAMBERT                               | _  | VISTA ID#:                           | 218141                     |  |  |
| K                 | T 3 BOX 217,1 MI N O                     | F FM3250   |                                      |                            |  |  |
| E                 | DINBURG, TX 78539                        |  |                                      |                            |  |  |
| NFRAP / SRC#      | 6475                                     | EPA ID: TXD981515745                                     |                                      |                            |  |  |
| Agency Add        | ress:                                    | SAME AS ABOVE  |                                      |                            |  |  |
| Site Description  | on:                                      | GROUND APPLICATOR OF PES<br>CONTAINERS BURIAL SITE AT FO | STICIDES. CURRENT SI<br>ORMER RANCH. | TE ON JIM LAMBERTPROPERTY. |  |  |
| EPA Region:       |  | 6  |                                      |                            |  |  |
| Congressiona      | al District:                             | o  |                                      |                            |  |  |
| Federal Facili    | ty:                                      | Agency Code ()   |                                      |                            |  |  |
| Facility Owne     | rship:                                   | OTHER  |                                      | *                          |  |  |
| Site Incident (   | Category:                                | unknown  |                                      |                            |  |  |
| Federal Facili    | ty Docket:                               | SITE IS NOT INCLUDED ON THE DOCKET                       |                                      |                            |  |  |
| NPL Status:       |  | NOT ON NPL   |                                      |                            |  |  |
| Incident Type     | :  | Unknown  |                                      |                            |  |  |
| Proposed NPL      | . Update #:                              | O  |                                      |                            |  |  |
| Final NPL Upd     | ate #:                                   | 0  |                                      |                            |  |  |
| Financial Mar     | nagement System ID:                      | NOT REPORTED   |                                      |                            |  |  |
| Latitude:         | -  | 0  |                                      |                            |  |  |
| Longitude:        |  | 0  |                                      |                            |  |  |
| Lat/Long Sour     | ce:                                      | Agency Code ()   |                                      |                            |  |  |
| Lat/Long Acc      | uracy:                                   | Unknown  |                                      |                            |  |  |
| Dioxin Tier:      |  | Unknown  |                                      |                            |  |  |
| USGS Hydro U      | nit:                                     | 12110208   |                                      |                            |  |  |
| RCRA Indicate     |  | Unknown  |                                      |                            |  |  |
| Unit ld:          |  | 0  | <del></del>                          | <del></del>                |  |  |
| Unit Name:        |  | ENTIRE SITE  |                                      |                            |  |  |
| Туре:             | DISCOVERY                                | Lead Agenc   | y: EPA FUN                           | D-FINANCED                 |  |  |
| Qualifier:        | UNKNOWN                                  | Category:  | Unknowi                              | 7                          |  |  |
| Name:             | NOT REPORTED                             | Actual Start   | Date: NOT REP                        | ORTED                      |  |  |



Plan Status:

Date:

\* VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403. Report ID: 308492001 Date of Report: March 7, 2000

Actual Completion MAY 2, 1986

Version 2.6.1

Unknown

Type:

PRELIMINARY ASSESSMENT

Qualifier:

NO FURTHER REMEDIAL ACTION

PLANNED

Name: Plan Status: NOT REPORTED

Unknown

Lead Agency:

STATE, FUND FINANCED

Category:

Unknown

Actual Start Date: Actual Completion UNKNOWN UNKNOWN

Date:

VISTA Address\*:

HIDALGO COUNTY

3.2MI E US281, ADJACENT TO N SIDE DAV

**EDINBURG, TX** 

Agency ID:

VISTA ID#:

3051411

2102.00

STATE SWLF - Solid Waste Landfill / SRC# 6709

**Agency Address:** 

SAME AS ABOVE SHREDDER FACILITY

**Facility Type: Facility Status:** 

**PROPOSED** 

**Permit Status:** 

PERMITTED/LICENSED

VISTA Address\*:

**CURLS FARM SERVICE** 

VISTA ID#:

109355

**JUNCT. 83 HWY 487** 

EDINBURG, TX 78539

EPA ID:

TXD981918147

**NFRAP / SRC# 6475** Agency Address:

CURLS FARM SERVICE

SAME AS ABOVE

NOT REPORTED

Alias Street: Alias City:

Alias Name:

HIDALGO

NOT REPORTED

Alias Longitude:

Alias Latitude:

Alias Zip: Alias State:

TΧ

Alias Description:

NOT REPORTED

Site Description:

FORMER SHEET METAL SITE. SITE WHERE PESTICIDE CONTAINERS ARE BURIED.

0

**EPA Region:** 

**Congressional District:** 

6 0

**Federal Facility:** 

Agency Code ()

OTHER

Facility Ownership: Site Incident Category:

unknown

SITE IS NOT INCLUDED ON THE DOCKET

Federal Facility Docket:

NOT ON NPL

**NPL Status:** 

Unknown

Incident Type: Proposed NPL Update #:

0

Final NPL Update #:

0

**Financial Management System ID:** 

Latitude:

Longitude:

Agency Code ()

NOT REPORTED

Lat/Long Source: Lat/Long Accuracy:

Unknown

Dioxin Tier:

Unknown

**USGS Hydro Unit:** 

12110208

**RCRA Indicator:** 

Unknown



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403. Report ID: 308492001 Date of Report: March 7, 2000

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| Unit Id:              | 0                          |                          |                      |
|-----------------------|----------------------------|--------------------------|----------------------|
| Unit Name:            | ENTIRE SI                  | TE                       |                      |
| Туре:                 | DISCOVERY                  | Lead Agency:             | STATE, FUND FINANCED |
| Qualifier:            | UNKNOWN                    | Category:                | Unknown              |
| Name:                 | NOT REPORTED               | Actual Start Date:       | NOT REPORTED         |
| Plan Status:          | Unknown                    | <b>Actual Completion</b> | UNKNOWN              |
| _                     |                            | Date:                    |                      |
| Туре:                 | PRELIMINARY ASSESSMENT     | Lead Agency:             | STATE, FUND FINANCED |
| Qualifier:            | LOWER PRIORITY             | Category:                | Unknown              |
| Name:                 | NOT REPORTED               | Actual Start Date:       | UNKNOWN              |
| Plan Status:          | Unknown                    | Actual Completion        | UNKNOWN              |
|                       |                            | Date:                    |                      |
| Туре:                 | SCREENING SITE INSPECTION  | Lead Agency:             | STATE, FUND FINANCED |
| Qualifier:            | NO FURTHER REMEDIAL ACTION | Category:                | Unknown              |
| Name:                 | PLANNED<br>NOT REPORTED    | Actual Start Date:       | NOT REPORTED         |
| Name:<br>Plan Status: | Unknown                    | Actual Completion        | UNKNOWN              |
|                       |                            | Date:                    |                      |

| VISTA        | VILLARREL GROCERY             |   | VISTA ID#:     | 2589910     |
|--------------|-------------------------------|---|----------------|-------------|
| Address*:    | HWY 107                       |   |                | }           |
|              | EDINBURG, tx 78539            |   |                |             |
| STATE LUST - | State Leaking Underground Sta | orage Tank / SRC# 6711  | EPA/Agency ID: | N/A         |
| Agency A     | ddress:                       | VILLARREL GROCERY<br>HWY 107<br>SAN CARLOS, tx 78539  |                | _           |
| Facility ID: |                               | 0034085   |                | _           |
| Leak ID#:    |                               | 094184  |                |             |
| Leak Repo    | rt Date:                      | 11/03/1989  |                |             |
| Region / D   | istrict:                      | HARLINGEN   |                |             |
| Responsibl   | e Party:                      | HERBS ENTERPRISES WALKER O  | VIL            | <del></del> |
| Description  | n / Comment:                  | MEDIA AFFECTED: SOIL CONTAMINATION ONLY, REQUIRES FULL SITE ASSESSMENT<br>RAPREMEDIATION STATUS: FINAL CONCURRENCE ISSUED, CASE<br>CLOSEDRESPONSIBLE PARTY INFO: 505 E<br>SCHUNIOR, EDINBURG, TX, 785390000, 512/383-2412 |                |             |

| VISTA<br>Address*:   | EDINBURG AUTO TRUCK STOP INC<br>HWY 281                        |                          | VISTA ID#: | 2591477 |
|--|--|--------------------------|------------|---------|
|  | EDINBURG, tx 78539   |                          |            | ļ       |
| STATE LUST -   | TATE LUST - State Leaking Underground Storage Tank / SRC# 6711 |                          |            | N/A     |
| Agency Ac  | ldress:  | SAME AS ABOVE            |            |         |
| Facility ID: 0033774   |  |                          |            |         |
| Leak ID#:  |  | 093623                   |            |         |
| Leak Repor   | t Date:  | 09/12/1989               |            |         |
| Region / Di  | strict:  | HARLINGEN                |            |         |
| Responsible Party:   |  | EDINBURG AUTO/TRUCK STOP |            |         |
| <b>Description / Comment:</b> MEDIA AFFECTED: GW IMPACT, PUBLIC/DOMESTIC WATER SUPPLY 0.25MIREMEDIATION STATUS: PHASE 2 IN PROGRESSRESPONSIBLE P. BOX 2076,EDINBURG,TX, 78539,281/646-0476 |  |                          |            |         |



\* VISTA address includes enhanced city and ZIP.
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#### UNMAPPED SITES CONT. VISTA VISTA ID#: **GUERRA BROTHERS, INC.** 6529278 Address\*: 18.5 MI N EDINBURG EDINBURG, tx STATE LUST - State Leaking Underground Storage Tank / SRC# 6711 EPA/Agency ID: N/A SAME AS ABOVE **Agency Address:** 0060073 Facility ID: 110881 Leak ID#: 04/19/1996 Leak Report Date: HARLINGEN Region / District: GUERRA BROTHERS, INC. Responsible Party: MEDIA AFFECTED: GW IMPACTED, NO APPARENT THREATS OR IMPACTS TO **Description / Comment:** RECEPTORSREMEDIATION STATUS: PENDING CLOSURE, WAITING FOR MONITORING CLOSURE REPORTRESPONSIBLE PARTY INFO: PO BOX

38,LINN,TX,78563,956/383-2602

| VISTA<br>Address*: | HI JO HYDROCARBONS<br>E FM 1926<br>EDINBURG, tx |  | VISTA ID#:           | 5108423        |  |
|--------------------|---|--|----------------------|----------------|--|
| STATE LUST -       | State Leaking Underground Sto                   | rage Tank / SRC# 6711  | EPA/Agency ID:       | N/A            |  |
| Agency Ad          | dress:  | SAME AS ABOVE  |                      |                |  |
| Facility ID:       | Facility ID: 0001056                            |  |                      |                |  |
| Leak ID#:          |   | 104398   |                      |                |  |
| Leak Repo          | rt Date:  | 08/26/1992   |                      |                |  |
| Region / Di        | strict:   | HARLINGEN  |                      |                |  |
| Responsible        | e Party:  | HI JO HYDROCARBONS   |                      |                |  |
| Description        | / Comment:                                      | MEDIA AFFECTED: GW IMPACT<br>RECEPTORSREMEDIATION STAT<br>CLOSEDRESPONSIBLE PARTY IN | US: FINAL CONCURRENC | E ISSUED, CASE |  |

| VISTA<br>Address*:  | LINN FEED SEED SUPPLY<br>HWY 281 |                       | VISTA ID#:                | 6530443 |
|---|----------------------------------|-----------------------|---------------------------|---------|
|   | EDINBURG, tx                     |                       |                           |         |
| STATE LUST -  | State Leaking Underground Sto    | rage Tank / SRC# 6711 | EPA/Agency ID:            | N/A     |
| Agency Ad   | ldress:                          | SAME AS ABOVE         |                           |         |
| Facility ID:  |                                  | 0002126               |                           |         |
| Leak ID#:   |                                  | 110971                |                           |         |
| Leak Repor  | t Date:                          | 04/20/1996            |                           |         |
| Region / Di   | strict:                          | HARLINGEN             |                           |         |
| Responsible Party:  |                                  | GUERRA BROS INC       |                           |         |
| Description / Comment:  MEDIA AFFECTED: NO GW IMPACT, NO APPARENT THREATS OR IMPACT.  TORECEPTORSREMEDIATION STATUS: INCIDENT REPORTED, INITIAL DIREC  YET ISSUEDRESPONSIBLE PARTY INFO: PO BOX 38,LINN,TX,78563,210/383- |                                  |                       | D, INITIAL DIRECTIVES NOT |         |



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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#### **UNMAPPED SITES CONT.** VISTA **FUEL STOP** VISTA ID#: 6612180 Address\*: HWY 681 MCCOOK, tx STATE LUST - State Leaking Underground Storage Tank / SRC# 6711 EPA/Agency ID: N/A Agency Address: SAME AS ABOVE Facility ID: 0006606 Leak ID#: 110296 Leak Report Date: 04/29/1996 Region / District: HARLINGEN Responsible Party: SOUTHWEST GRAIN **Description / Comment:** REMEDIATION STATUS: INITIAL DIRECTIVES ISSUED A WAITING INITIAL RESPONSERESPONSIBLE PARTY INFO: RR3 BOX 188F,EDINBURG,TX,785399318,956/842-3355



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Date of Report: **March 7, 2000**Page #24

# SITE ASSESSMENT - SPECIAL PROJECT (ALL DATABASES SEARCHED TO 1 MILE)

#### **DESCRIPTION OF DATABASES SEARCHED**

#### A) DATABASES SEARCHED TO 1/2 MILE

NPL SRC#: 6558 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for NPL was January, 2000.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

SPL SRC#: 6712 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for State Superfund Program was December, 1999.

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-2458.

CERCLIS SRC#: 6474 VISTA conducts a database search to identify all sites within 1 mile of your property.

The agency release date for CERCLIS was October, 1999.

The CERCLIS List contains sites which are either proposed to or on the National Priorities List(NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted enforcement activities.

NFRAP SRC#: 6475 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for CERCLIS-NFRAP was October, 1999.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

SCL SRC#: 6559 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Site Assessment Report was December, 1999.

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-2525.

The Texas Water Commission Superfund Registry Quarterly Status Report is an information newsletter containing detailed information for NPL sites in the state of Texas.



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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SCL SRC#: 6710 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Voluntary Cleanup Program Site Listing was January, 2000,

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-5891.

**CORRACTS** SRC#: 6556 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for HWDMS/RCRIS was December, 1999.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

**ERNS** SRC#: 6181 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for was August, 1999.

The Emergency Response Notification System (ERNS) is a national database containing records from October 1986 to the release date above and is used to collect information for reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation. The ERNS hotline number is (202) 260-2342.

RCRA-TSD SRC#: 6556 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for HWDMS/RCRIS was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

RCRA-LgGen SRC#: 6556

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for HWDMS/RCRIS was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation. storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

SRC#: 6556

RCRA-SmGen VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for HWDMS/RCRIS was December, 1999.

> The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403. Report ID: 308492001 Date of Report: March 7, 2000 Version 2.6.1 Page #26 SWLF SRC#: 5884 VISTA conducts a database search to identify all sites within 1 mile of your property.

The agency release date for Closed Municipal Solid Waste Landfills was March, 1998.

This database is provided by the Natural Resource Conservation Commission, Division of MSW. The agency may be contacted at: .

SWLF SRC#: 6709 VISTA conducts a database search to identify all sites within 1 mile of your property.

The agency release date for Solid Waste Facilities Permit Applications File was January,
2000.

THE TEXAS SOLID WASTE FACILITIES PERMIT APPLICATIONS FILE CURRENTLY INCLUDES RECORDS WITH ADDRESSES THAT HAVE LITTLE LOCATIONAL VALUE. A SMALL SAMPLING OF THESE SITES WILL BE INCLUDED IN THE UNMAPPABLE SECTION OF VISTA REPORTS. THE TNRCC IS DEVELOPING A GIS DATABASE FOR SOLID WASTE FACILITIES THAT WILL INCLUDE MAPPABLE LOCATION. UNTIL THIS DATABASE IS AVAILABLE, VISTA ENCOURAGES FURTHER INVESTIGATION BY THE ENVIRONMENTAL PROFESSIONAL TO LOCATE ALL POSSIBLE LANDFILLS IN THE AREA.

SPILL SRC#: 6720 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Spills Incident Information System was January, 2000.

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-2446.

LUST SRC#: 6711 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Leaking Petroleum Storage Tank Case Report was January, 2000.

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-0986.

UST's SRC#: 6708 VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Petroleum Storage Tank Database was January, 2000.

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-0986; Caution-Many states do not require registration of heating oil tanks, especially those used for residential purposes.

AST's SRC#: 6708 VISTA conducts a database search to identify all sites within 1 mile of your property.

The agency release date for Aboveground Storage Tank Database was January, 2000.

This database is provided by the Natural Resource Conservation Commission. The agency may be contacted at: 512-239-0986.

TRIS SRC#: 4946 VISTA conducts a database search to identify all sites within 1 mile of your property. **The agency release date for TRIS was January, 1998.** 

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facilities (Toxic Release Inventory System). Facilities subject to this reporting are required to complete a Toxic Chemical Release Form (Form R) for specified chemicals.



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 308492001

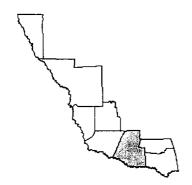
Date of Report: March 7, 2000

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# End of Report



#### **HIDALGO COUNTY**



The following are population projections developed for the Texas Water Development Board as part of the Senate Bill 1 Regional Water project. Population in Hidalgo County is expected to increase by more than 150 percent in the period from the year 2000 to the year 2050.

Table 9 - Population Projections for Hidalgo County

|                  | Year 2000  | Year 2010  | Year 2020  | Year 2030  | Year 2040  | Year 2050  |
|------------------|------------|------------|------------|------------|------------|------------|
| Water User Group | Population | Population | Population | Population | Population | Population |
| Alamo            | 12,821     | 16,566     |            |            | 24,143     |            |
| Alton            | 5,098      | 6,035      | 6,946      | 7,855      | 8,572      | 9,354      |
| Donna            | 16,449     | 20,627     | 25,213     | 30,738     | 35,686     |            |
| Edcouch          | 4,368      | 4,993      | 5,680      | 6,585      | 7,445      | 8,418      |
| Edinburg         | 45,024     | 55,856     | 67,744     | 82,167     | 95,139     | 110,159    |
| Elsa             | 6,605      | 7,428      | 8,328      | 9,559      | 10,744     | 12,077     |
| Hidalgo          | 6,131      | 8,140      | 10,348     | 12,931     | 15,198     | 17,865     |
| La Joya          | 4,352      | 5,836      | 7,257      | 8,592      | 9,590      | 10,702     |
| La Villa         | 2,066      | 2,633      | 3,254      | 3,996      | 4,657      | 5,323      |
| McAllen          | 116,891    | 128,278    | 139,070    | 154,689    | 178,632    | 206,280    |
| Mercedes         | 15,962     | 18,745     | 21,797     | 25,691     | 29,302     | 33,421     |
| Mission          | 44,401     | 57,933     | 80,193     | 97,764     | 113,229    | 131,375    |
| Palmview         | 2,916      | 3,734      | 4,635      | 5,706      | 6,655      | 7,763      |
| Pharr            | 45,960     | 61,198     | 77,929     | 97,479     | 114,631    | 134,800    |
| Progresso        | 3,604      | 4,151      | 4,597      | 5,145      | 5,740      | 6,335      |
| San Juan         | 25,310     | 28,981     | 32,521     | 35,952     | 38,585     | 41,485     |
| Sullivan City    | 3,170      | 3,586      | 3,940      | 4,315      | 4,760      | 5,206      |
| Weslaco          | 29,435     | 36,241     | 43,710     | 52,820     | 61,044     | 70,548     |
| County Other     | 169,359    | 241,422    | 316,963    | 414,286    | 492,328    | 556,718    |
| Total Population | 559,922    | 712,383    | 879,381    | 1,078,637  | 1,256,080  | 1,435,319  |
|                  | ·          |            |            |            | i          |            |

TurnerCollie@Braden Inc.

#### WILLACY COUNTY



The following are population projections developed for the Texas Water Development Board as part of the Senate Bill 1 Regional Water project. The population of Willacy County is projected to increase from approximately 21,200 in the year 2000 to approximately 29,100 in the year 2050.

Table 14 - Population and Water Demand Projections for Willacy County

| Water User Group | Year 2000<br>Population | Year 2010<br>Population | Year 2020<br>Population | Year 2030<br>Population | Year 2040 population | Year 2050<br>Population |
|------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------------------|
| Lyford           | 2,072                   | 2,344                   | 2,573                   | 2,733                   | 2,853                | 2,979                   |
| Raymondville     | 10,774                  | 12,081                  | 13,181                  | 13,929                  | 14,459               | 15,009                  |
| San Perlita      | 758                     | 889                     | 1,024                   | 1,159                   | 1,289                | 1,408                   |
| Sebastian        | 1,766                   | 1,850                   | 2,032                   | 2,217                   | 2,374                | 2,465                   |
| County Other     | 5,795                   | 6,558                   | 7,047                   | 7,246                   | 7,305                | 7,216                   |
| Total Population | 21,165                  | 23,722                  | 25,857                  | 27,284                  | 28,280               | 29,077                  |
|                  |                         |                         |                         | L                       |                      |                         |

| SUB-BASIN   | TOTAL AREA | URBAN AREA     | URBAN AREA  | IMPERVIOUS AREA | %IMPERVIOUS | %IMPERVIOUS |
|-------------|------------|----------------|-------------|-----------------|-------------|-------------|
|             | SQ. MI.    | S.F.           | SQ. MI.     | SQ.MI.          | EXISTING    | FUTURE      |
| 7S          | 29.5       | 2,488,633.73   | 0.089267452 | 0.0312          | 0.11%       | 0.15%       |
| 15S         | 25         | 16,921,362.00  | 0.606970343 | 0.2124          | 0.85%       | 1.16%       |
| 208         | 10.5       | 9,501,101.47   | 0.34080512  | 0.1193          | 1.14%       | 1.56%       |
| 328         | 17         | 9,411,007.15   | 0.337573431 | 0.1182          | 0.70%       | 1.78%       |
| 33S         | 16.5       | 16,633,010.00  | 0.596627138 | 0.2088          | 1.27%       | 3.24%       |
| 36S         | 11.8       | 80,474,498.00  | 2.886625416 | 1.0103          | 8.56%       | 21.92%      |
| 38S         | 5.3        | 10,528,308.53  | 0.377651104 | 0.1322          | 2.49%       | 6.38%       |
| 408         | 12.8       | 17,994,340.30  | 0.645458143 | 0.2259          | 1.76%       | 4.52%       |
| <b>41S</b>  | 20.3       | 72,209,461.55  | 2.590158027 | 0.9066          | 4.47%       | 11.43%      |
| 42S         | 8.3        | 17,331,175.23  | 0.62167037  | 0.2176          | 2.62%       | 6.71%       |
| 438         | 7.8        | 49,988,623.00  | 1.79309512  | 0.6276          | 8.05%       | 20.60%      |
| 448         | 30.8       | 451,325,889.93 | 16.18908868 | 5.6662          | 18.40%      | 47.10%      |
| 45S         | 14.5       | 355,889,321.61 | 12.76577284 | 4.4680          | 30.81%      | 78.88%      |
| 53 <b>S</b> | 61         | 95,617,710.51  | 3.429813422 | 1.2004          | 1.97%       | 5.04%       |
| 54S         | 125.5      | 534,708,944.80 | 19.18004422 | 6.7130          | 5.35%       | 13.69%      |
| 8R          | 11.5       | 47,309,803.00  | 1.697005675 | 0.5940          | 5.16%       | 7.08%       |
| 14R         | 16.25      | 1,956,023.90   | 0.070162703 | 0.0246          | 0.15%       | 0.21%       |

NOTE: IMPERVIOUS AREA IS FOUND BY MULTIPLYING URBAN AREA BY 35%.

GROWTH FACTORS: HIDALGO COUNTY 2.56

WILLACY COUNTY 1.37 **CAMERON COUNTY 1.93** 

<sup>%</sup> IMPERVIOUS IS FOUND BY DIVIDING IMPERVIOUS AREA BY TOTAL AREA

<sup>%</sup> IMPERVIOUS (FUTURE) FOUND BY MULITIPLYING THE IMPERVIOUS AREA BY A GROWTH FACTOR THAN DIVIDING BY TOTAL AREA

| Lag time o | calculation SCS M | lethod   |         |         |         |         | i            |          |          |          |          |
|------------|-------------------|----------|---------|---------|---------|---------|--------------|----------|----------|----------|----------|
|            |                   | ORIGINAL | REVISED | REVISED | ORIGINA | REVISED | REVISED      |          |          |          |          |
| Water      | Hydraulic         |          |         |         |         |         | <del> </del> |          | SCS_LAG, | SCS_LAG, | SCS_LAG, |
| shed       | length in ft, L   | CN       | CN II   | CN I    | S       | SII     | SI           | Slope, % | hr       | II hr    | I hr     |
|            |                   |          |         |         |         |         |              |          |          |          |          |
| SC-1       | 26,400            | 71.71    | 70.78   | 60      | 3.945   | 4.128   | 6.667        | 0.04     | 28.48    | 29.22    | 38.71    |
| SC-2       | 36,800            | 71.06    | 64.97   | 60      | 4.073   | 5.392   | 6.667        | 0.03     | 42.56    |          |          |
| SC-3       | 132,000           | 72.21    | 68.36   | 60      | 3.848   | 4.628   | 6.667        |          | 45.65    | 50.67    |          |
| SC-3A      | 28,000            | 72.05    | 67.71   | 60      | 3.879   | 4.769   | 6.667        | 0.02     | 42.97    | 48.32    |          |
| SC-3B      | 18,400            | 71.96    | 71.47   | 60      | 3.897   | 3.992   | 6.667        | 0.03     | 25.14    |          |          |
| SC-4       | 104,000           | 73.64    | 70.47   | 60      | 3.580   | 4.190   | 6.667        | 0.17     | 38.44    | 41.96    | 55.14    |
| SC-4A      | 63,900            | 73.64    | 72.52   | 60      | 3.580   | 3.789   | 6.667        | 0.17     | 26.04    | 26.86    | 37.34    |
| SC-4A1     | 15,200            |          | 69.9    | 60      | 3.580   | 4.306   | 6.667        | 0.20     | 0.00     | 8.39     | 10.85    |
| SC-4B      | 7,900             |          | 63.51   | 60      | 3.580   | 5.746   | 6.667        | 0.19     | 4.60     | 6.03     | 6.59     |
| SC-4B1     | 17,000            |          | 67      | 60      | 3.580   |         | 6.667        | 0.19     | 8.49     | 10.17    | 12.17    |
| SC-5       | 120,800           |          | 69.08   | 60      | 3.473   | 4.476   | 6.667        | 0.17     | 42.88    | 49.40    | 62.53    |
| SC-5A      | 93,600            |          | 69.19   | 60      | 3.473   | 4.453   | 6.667        | 0.17     | 34.97    | 40.17    | 50.98    |
| SC-5A1     | 12,600            |          | 69.2    | 60      | 3.473   | 4.451   | 6.667        | 0.08     | 10.13    | 11.63    | 14.76    |
| SC-5B      | 14,500            |          | 68.56   | 60      | 3.473   | 4.586   | 6.667        | 0.13     | 8.89     | 10.38    | 12.96    |
| SC-6A      | 88,000            |          | 65.33   | 60      | 3.367   | 5.307   | 6.667        | 0.15     | 34.09    | 44.09    | 50.55    |
| SC-6B      | 16,000            |          | 72.47   | 60      | 3.755   | 3.799   | 6.667        | 0.05     | 16.18    | 16.29    | 22.61    |
| SC-7A      | 44,000            |          | 64.03   | 60      | 3.387   | 5.618   | 6.667        | 0.05     | 36.22    | 48.29    | 53.53    |
| SC-7B      | 16,000            |          | 64.99   | 60      | 3.824   | 5.387   | 6.667        | 0.06     | 14.56    | 17.72    | 20.14    |
| SC-7C      | 32,800            | 72.18    | 67.95   | 60      | 3.854   | 4.717   | 6.667        | 0.11     | 19.93    | 22.35    | 27.45    |
| SC-7D      | 19,200            | /        | 72.77   | 60      | 3.768   | 3.742   | 6.667        | 0.05     | 18.40    | 18.33    | 25.65    |
| SC-8       | 37,600            |          | 75.68   | 60      | 3.633   | 3.214   | 6.667        | 0.04     | 37.63    | 35.21    | 53.53    |
| SM-13      | 56,800            |          | 71.52   | 60      | 3.818   |         | 6.667        | 0.04     | 53.79    | 55.07    | 74.46    |
| SM-14      | 48,000            |          | 72.11   | 60      | 3.572   |         | 6.667        | 0.03     | 48.16    | 50.31    | 69.15    |
| SM-15      | 32,000            |          | 72.91   | 60      | 3.358   |         | 6.667        | 0.05     | 27.34    | 28.89    | 40.60    |
| SM-16      | 44,000            |          | 71.85   | 60      | 4.112   |         | 6.667        | 0.03     | 46.38    | 45.14    | 61.59    |
| SM-17      | 19,200            |          | 76.37   | 60      | 3.674   |         | 6.667        | 0.03     | 25.66    | 23.38    | 36.28    |
| SM-18      | 47,200            | 76.42    | 78.5    | 61.96   | 3.086   | 2.739   | 6.139        | 0.04     | 37.73    | 35.46    | 55.76    |

•

| River      | Rch | S٠             | RM=North                               | Main  | reach 4     | 12,25 10       | 331370          | £,100-y | sar,250-     | ·year, 5 |
|------------|-----|----------------|--|-------|-------------|----------------|-----------------|---------|--------------|----------|
|            | 12  | Œ              | 94                                     | 184   | 335         | 478            | ,551570         | 951     | 1228         |          |
| River      |     | χ.             | RM=North                               | Main  | reach 3     | (couth)        | 215706          | 331     | 1228         |          |
|            | 12  | ū              | 94                                     | 184   | 335         | (SOULII)       | 654             | 051     | 1220         |          |
| River      |     | £              | RM=North                               | Main  | reach 3     | 476<br>/couth) | 215707          | 931     | 1228         |          |
| 111 4 61   | 12  | Œ              |  | 208   | , I Eacli 3 | 760            | ,31328/         | 1700    | 0.400        |          |
| Divor      | -   | c              |  | Moin  | 4/3         | /60            | 1133            | 1782    | 2403         |          |
| vrvet      |     | œ              | RM=North                               | Main, | reach 3     | (south)        | ,286897         |         |              |          |
| D          | 40  | _              | 208                                    | 430   | 903         | 1384           | 2002            | 3069    | 4084         |          |
| Kiver      |     | δ¢             | RM=North                               |       |             |                |                 |         |              |          |
|            | 64  | _              | 301                                    | 594   | 1163        | 1740           | 2473            | 3728    | 4913         |          |
| River      | KCI | òκ             | RM=North                               | Main, | reach 3     | (south)        | ,260000         |         |              |          |
| Diamen     | 77  | ~              | 378                                    | /41   | 1425        | 2109           | 2978            | 4467    | 5843         |          |
| River      | RCD | òε             | RM=North                               | Main, | reach 3     | (south)        | ,250000         |         |              |          |
| <b>.</b> . | 77  | _              | 378                                    | 751   | 1491        | 2247           | 3218            | 4896    | 6480         |          |
| River      | Rch | δc             | RM=North<br>2                          | Main, | reach 2     |                | ,157900         |         |              |          |
|            | _ 1 |                | 2                                      | 3     | 40          | 100            | 188             | 352     | 5 <b>1</b> 5 |          |
| River      | Rch | δc             | RM=North                               | Main, | reach 2     |                | ,144259         |         |              |          |
|            | 13  |                | RM=North<br>81                         | 153   | 482         | 1051           | 1858            | 3255    | 4804         |          |
| River      | Rch | 8              | RM=North<br>204                        | Main, | reach 2     |                | ,132334         |         |              |          |
|            | 14  |                | 204                                    | 468   | 962         |                |                 | 6219    | 8788         |          |
| River      | Rch | &              | RM=North                               | Main, | reach 2     |                | ,117690         |         |              |          |
|            | 15  |                | 224                                    | 511   | 1120        | 2355           | 4175            | 7265    | 10250        |          |
| River      | Rch | &              | RM=North<br>234                        | Main, | reach 2     |                | ,105420         |         |              |          |
|            | 17  |                | 234                                    | 538   | 1279        | 2215           | ,105420<br>3804 | 6831    | 9537         |          |
| River      | Rch | &              | RM=North                               | Main, | reach 2     |                | ,98900          |         |              |          |
|            | 16  |                |  | 537   | 1295        | 2258           | 3818            | 6831    | 9620         |          |
| River      | Rch | &              | RM=North                               | Main, |             |                | ,73000          |         |              |          |
|            | 33  |                |  | 630   | 1481        | 2423           | 3782            | 6439    | 9328         |          |
| River      | Rch | &              | RM=North                               | Main, | reach 1     |                | ,233824         |         |              |          |
|            | 104 |                | 639 1                                  | 1325  | 2982        | 4760           | 6671            | 9260    | 12932        |          |
| River      | Rch | &              | RM=North                               | Main  | reach 1     |                | ,188000         |         |              |          |
|            | 71  |                | 476 1                                  | .048  | 2312        | 3448           | 4800            | 7518    | 11140        |          |
| River      | Rch | &              | RM=North                               | Main, | reach 1     |                | ,150000.        |         |              |          |
|            | 71  |                | RM=North<br>476 1                      | 064   | 2286        | 3412           | 4695            | 7426    | 11052        | -        |
| River      | Rch | &              | RM=North<br>481 1<br>RM=North          | Main, | reach 1     |                | ,136000.        | . 120   |              |          |
|            | 71  |                | 481 1                                  | 092   | 2321        | 3436           | 4708            | 7437    | 11062        |          |
| River      | Rch | δ.             | RM=North                               | Main. | reach 1     |                | ,132000.        | , 13 ,  | 11002        |          |
|            | 70  |                | 480 1                                  | 094   | 2316        | 3430           | 4643            | 7418    | 11045        |          |
| River      | Rch | S <sub>c</sub> | RM=North<br>480 1<br>RM=North<br>482 1 | Main. | reach 1     |                | .116000         | , 110   | 11013        |          |
|            | 70  | _              | 480 1                                  | 105   | 2330        | 3439           | 4641            | 7417    | 11046        |          |
| River      | Rch | ₽.             | RM=North                               | Main. | reach 1     | - 132          | . 110000        | , 41,   | 11040        |          |
|            | 69  | -              | 482 1                                  | 204   | 2641        | 3856           | 5335            | 7582    | 11115        |          |
| River      | Rch | ۲.             | RM=North                               | Main. | reach 1     | 3030           | ,84000.         | 7502    | 11113        |          |
|            | 69  |                |  | .222  | 2668        | 3887           | 5378            | 7660    | 11080        |          |
| River      |     | 2              | RM=North                               |       |             | 3007           | ,68373          | 7000    | 11000        |          |
| 101001     | 69  | Œ.             |  | .338  | 2920        | 4267           | 5813            | 8433    | 11410        |          |
| River      |     | ۲.             | RM=North                               |       |             | 4207           | ,52275          | 0422    | 71410        |          |
| 111101     | 67  | ū.             |  | .333  | 2923        | 4261           | 5802            | 8248    | 10992        |          |
| River      |     | ۲.             | RM=North                               |       |             | 42.01          | ,29585          | 0240    | 10332        |          |
| KIVCI      | 66  | Œ              |  | .356  | 3104        | 4305           | 5837            | 7896    | 10060        |          |
| River      |     | ኤ              | RM=North                               |       |             | 4000           | ,10000.         | 1030    | 10969        |          |
| VIT A CIT  | 66  | œ              |  | .361  | 3243        | 4358           | 5848            | 7001    | 10000        |          |
| Rivar      |     | ۲.             | RM=North                               |       |             | 4770           | ,8000.          | 7901    | 10969        |          |
| TABL       | 96  | œ              |  | .361  | 3292        | 4458           | ,8000.<br>5868  | 7978    | 10064        |          |
| River      |     | c.             | RM=North                               |       |             | 4470           | ,2000.          | 1210    | 10964        |          |
|            | .09 | οc             |  | .378  | 3576        | 4920           | ,2000.<br>6522  | 8929    | 10064        |          |
| 7          |     |                | 000                                    |       | 2270        | 472U           | VJZZ            | 0343    | 10964        |          |

Number of Profiles= 8 Profile Names=2-year,5-year,10-year,25-year,50-year,100-year,250-year,500-year River Rch & RM=North Main, reach 4 ,331370 River Rch & RM=North Main,reach 3 (south) ,315796 River Rch & RM=North Main,reach 3 (south) ,315287 River Rch & RM=North Main,reach 3 (south) ,286897 River Rch & RM=North Main, reach 3 (south) ,271000 River Rch & RM=North Main, reach 3 (south) ,260000 River Rch & RM=North Main, reach 3 (south) ,250000 River Rch & RM=North Main, reach 2 ,157900 River Rch & RM=North Main, reach 2 ,144259 River Rch & RM=North Main, reach 2 ,132334 River Rch & RM=North Main, reach 2 ,117690 ,105420 River Rch & RM=North Main, reach 2 7 ,98900 River Rch & RM=North Main, reach 2 River Rch & RM=North Main, reach 2 ,73000 River Rch & RM=North Main, reach 1 ,233824 River Rch & RM=North Main, reach 1 ,188000 River Rch & RM=North Main, reach 1 ,150000. River Rch & RM=North Main, reach 1 ,136000. River Rch & RM=North Main, reach 1 ,132000. River Rch & RM=North Main, reach 1 ,116000. River Rch & RM=North Main, reach 1 ,110000. River Rch & RM=North Main, reach 1 ,84000. River Rch & RM=North Main, reach 1 ,68373 ,52275 River Rch & RM=North Main, reach 1 ,29585 River Rch & RM=North Main, reach 1 ,10000. River Rch & RM=North Main, reach 1 River Rch & RM=North Main, reach 1 ,8000. River Rch & RM=North Main, reach 1 ,2000. 

Flow Title=Raymondville - Revised Existing Version=Version 3.0.1 Mar 2001 Number of Profiles= 8 Profile Names=2-year,5-year,10-year,25-year,50-year,100-year,250-year,500-year River Rch & RM=raymondville, Reach 8 ,231612 River Rch & RM=raymondville, Reach 8 ,168304 River Rch & RM=raymondville, reach 2 ,164919 River Rch & RM=raymondville, reach 2 ,150792 River Rch & RM=raymondville, reach 2 ,149670 River Rch & RM=raymondville, reach 3 (south) ,144530 River Rch & RM=raymondville, reach 1 ,109185 River Rch & RM=raymondville, reach 1 ,86117 River Rch & RM=raymondville, reach 1 ,69075 ,54733 River Rch & RM=raymondville, reach 1 ,52753 River Rch & RM=raymondville, reach 1 River Rch & RM=raymondville, reach 1 ,34845 River Rch & RM=La Sal Vieja, Reach 1 ,15060

Flow Title=Raymondville - Ultimate Version=Version 3.0.1 Mar 2001 Number of Profiles= 8 Profile Names=2-year,5-year,10-year,25-year,50-year,100-year,250-year,500-year River Rch & RM=raymondville, Reach 8 ,231612 1 2 58 343 711 1224 2130 2929 River Rch & RM=raymondville,Reach 8 ,168304

| 1 · 1 · C |       | Œ. | TOT-T CATHOL | ICC V T T T C . | , 11000011 | Ų |         | 1700204 |      |      |
|-----------|-------|----|--------------|-----------------|------------|---|---------|---------|------|------|
|           | 1     |    | 71           | 293             | 1110       |   | 2079    | 3445    | 5904 | 8176 |
| Rive      | r Rch | &  | RM=raymon    | dville,         | reach,     | 2 |         | ,164919 |      |      |
|           | 1     |    | 70           | 239             | 626        |   | 1293    | 2430    | 4874 | 7561 |
| Rive:     | r Rch | &  | RM=raymon    | dville          | ,reach     | 2 |         | ,150792 |      |      |
|           | 1     |    | 119          | 372             | 968        |   | 1839    | 3118    | 5546 | 8648 |
| Rive      | r Rch | δŁ | RM=raymon    | dville,         | reach      | 2 |         | ,149670 |      |      |
|           | 1     |    | 96           | 310             | 799        |   | 1292    | 1870    | 3369 | 5055 |
| Rive      | r Rch | &  | RM=raymon    | dville          | reach      | 3 | (south) | ,144530 |      |      |
|           | 1     |    | 9            | 67              | 201        |   | 343     | 528     | 846  | 1148 |
| Rive:     | r Rch | δc | RM=raymon    | dville          | reach      | 1 |         | ,109185 |      |      |
|           | 1     |    | 100          | 345             | 927        |   | 1439    | 2065    | 3488 | 5206 |
| Rive:     | r Rch | &  | RM=raymon    | dville,         | reach      | 1 |         | ,86117  |      |      |
|           | 1     |    | 162          | 553             | 1391       |   | 2204    | 3176    | 5245 | 7345 |
| Rive      | r Rch | &  | RM=raymon    | dville,         | reach      | 1 |         | ,69075  |      |      |
|           | 1     |    | 186          | 658             | 1539       |   | 2348    | 3420    | 5752 | 8265 |
| Rive      | r Rch | &  | RM=raymon    | dville,         | reach      | 1 |         | ,54733  |      |      |
|           | 1     |    | 198          | 699             | 1609       |   | 2452    | 3570    | 6000 | 8657 |
| Rive      | r Rch | &  | RM=raymon    | dville,         | reach      | 1 |         | ,52753  |      |      |
|           | 18    |    | 190          | 656             | 1391       |   | 2046    | 3108    | 5499 | 8075 |
| Rive      | r Rch | &  | RM=raymon    | dville,         | reach      | 1 |         | ,34845  |      |      |
|           | 82    |    | 429          | 891             | 1715       |   | 2255    | 2856    | 4724 | 7258 |
| Rive      | r Rch | &  | RM=La Sal    | Vieja,          | Reach      | 1 |         | ,15060  |      |      |
|           | 1     |    | 25           | 110             | 579        |   | 974     | 1339    | 1711 | 1390 |
|           |       |    |              |                 |            |   |         |         |      |      |

Flow Title=Proposed - 10% Diversion 2 Version=Version 3.0.1 Mar 2001

|                  |            | sion 3.0.         |                        |          | J11 Z        |                  |                  |              |              |
|------------------|------------|-------------------|------------------------|----------|--------------|------------------|------------------|--------------|--------------|
| Number of        | P          | rofiles= 3        | 8                      |          |              |                  |                  |              |              |
| Profile N        | Vam.       | es=2-year         | ,5-yea                 | r,10-yea | ar,25-yea    | ar,50-year       | ,100-y           | ear,250-ye   | ear,500-year |
| River Rcl        | 1 &        | RM⇒North<br>123   | Main,                  | reach 4  |              | ,331370          |                  | _            | · •          |
| 17               |            | 123               | 233                    | 410      | 573          |                  | 1093             | 1392         |              |
| River RCi        | 1 &        | RM=North<br>2     | Main,                  | reach 2  |              | ,157900          | 250              | F4.5         |              |
|                  |            |                   |                        |          |              | 188<br>,144259   | 352              | 515          |              |
| 13               | . a        | RM=North<br>81    | 153                    | 482      | 1051         | 1858             | 3255             | 4804         |              |
|                  |            | RM=North          |                        |          |              | ,132334          | 3433             | 4004         |              |
| 14               |            | 204               | 468                    | 962      | 1985         | 3435             | 6219             | 87 <b>88</b> |              |
| River Rcl        | 1 &        | RM=North          | Main,                  | reach 2  |              | ,117690          |                  |              |              |
| 15               |            | 224               | 511                    | 1120     | 2355         | 4175             | 7265             | 10250        |              |
|                  | 1 &        | RM=North          |                        |          |              |                  |                  |              |              |
| 17               |            | 123               | 233<br>Maria           | 410      | 573          |                  | 1093             | 1392         |              |
|                  |            | RM=North<br>123   |                        |          |              |                  | 1005             | 2652         |              |
| River Rch        | ı &        | 123<br>RM=North   | Main.                  | reach 3  | (gouth)      | 1490<br>286897   | 1995             | 2652         |              |
| 57               |            | 263               | 524                    | 1044     |              |                  | 3352             | 4412         |              |
| River Rch        | 1 &        | RM=North          |                        |          |              |                  |                  |              |              |
| 81               |            | 357               | 684                    | 1306     | 1925         | 2703             | 4016             | 5237         |              |
|                  | 1 &        | RM=North          | Main,                  |          |              |                  |                  |              |              |
| 94               | _          | 433               | 829                    | 1565     | 2291         |                  | 4753             | 6165         |              |
|                  | 1 &        | RM=North          |                        |          |              |                  |                  |              |              |
| 94               |            | 433               | 838                    |          |              |                  | 5182             | 6802         |              |
| 14               | ı oc       | RM=North<br>222   | 508                    | 1045     | 2105         | 3525             | 5815             | 0175         |              |
|                  | . که       | RM=North          |                        |          |              |                  | 2013             | 8125         |              |
| 14               |            | 223               | 519                    | 1136     | 1918         | 3235             | 5062             | 7583         |              |
| River Rch        | . &        | RM=North          |                        |          |              |                  |                  |              |              |
| 14               |            | 223               | 518                    | 1152     | 1957         | 3301             | 5090             | 7683         |              |
|                  | l &        | RM≈North          |                        |          |              | ,73000           |                  |              |              |
| 31               |            | 279               | 568                    | 1341     | 2165         | 3291<br>,233824  | 5005             | 7282         |              |
|                  | 1 &c       | RM=North          |                        | reach 1  | 4660         | ,233824          | 01.65            | 44556        |              |
| 117              | . 2        | 672 1<br>RM=North | L368<br>Main           |          |              | 6593<br>,188000  | 9167             | 11576        |              |
| 80               | ı œ        |                   | 1081                   | 2307     | 3399         | 4719             | 7370             | 10089        |              |
|                  | . &د       | RM=North          |                        | reach 1  | 3333         | ,150000.         | 7570             | 10003        |              |
| 80               |            |                   | 1098                   |          | 3366         | 4598             | 7163             | 9932         |              |
| River Rch        | <b>.</b> & | RM=North          | Main,                  |          |              | ,136000.         |                  |              |              |
| 80               |            |                   | 1127                   |          | 3394         | 4615             | 7186             | 9953         |              |
|                  | l &.       | RM=North          |                        |          | 2000         | ,132000.         |                  |              |              |
| 79               | _          |                   | L130                   | 2313     | 3388         | 4548             | 7131             | 9933         |              |
| 79               | . ¢c       | RM=North 502 1    | Main,.<br>1141         | 2327     | 3399         | ,116000.<br>4547 | 7124             | 9936         |              |
|                  | ا          | RM=North          |                        |          | 2322         | ,110000.         | 114              | 3330         |              |
| 78               | _          |                   | 243                    | 2639     | 385 <i>9</i> | 5336             | 7585             | 10085        | •            |
| River Rch        | & ،        | RM=North          |                        | reach 1  |              | ,84000.          |                  |              |              |
| 78               |            |                   | 1262                   | 2665     | 3889         | 5379             | 7663             | 10151        |              |
|                  | ι δε       | RM=North          |                        |          |              | ,68373           |                  |              |              |
| 77               |            |                   | 1379                   | 2917     | 4268         | 5813             | 8436             | 11410        |              |
| 76               | . òx       | RM=North<br>509 1 | Main,<br>1373          | 2920     | 4262         | ,52275<br>5802   | 8251             | 10865        |              |
|                  | £          | RM=North          |                        |          | 4202         | ,29585           | 0231             | 10000        |              |
| 74               |            |                   | 1396                   | 3104     | 4305         | 5837             | 7899             | 10765        |              |
| River Rch        | . &        | RM=North          |                        |          |              | ,10000.          |                  |              |              |
| 74               |            |                   | 401                    | 3243     | 4357         | 5848             | 7904             | 10776        |              |
| River Rch        | . &        |                   |                        |          |              | ,8000.           |                  |              |              |
| 96               |            |                   | 401                    | 3292     | 4457         | 5868             | 7978             | 10746        |              |
| River Rch        | . δε       |                   |                        |          | 4020         | ,2000.           | 0000             | 10050        |              |
| 109<br>River Rch | Ç.         |                   | .418                   | 3575     | 4920         | 6522<br>,296300  | 8929             | 10850        |              |
| 1                | οc         | 17                | 52                     | 151      | 363          | 820              | 1704             | 2458         |              |
| River Rch        | کھ         |                   |                        |          |              | ,279700          | #/0 <del>4</del> | 2430         |              |
| 1                |            | 17                | 52                     | 152      | 307          | 589              | 1198             | 1876         |              |
| River Rch        | &          |                   |                        | e,Reach  |              | ,260550          |                  |              |              |
| 1                |            | 26                | 56                     | 270      | 539          | 923              | 1514             | 2115         |              |
| River Rch        | &          |                   |                        |          |              | ,240200          | 2226             | 2006         |              |
| 3                | r          | 24<br>PM=raimon   | 73<br>1323 112         | 398      | 803          | 1359             | 2206             | 2996         |              |
| River Rch        | ٥c         |                   | 3 <b>03</b><br>IGATITE | 1146     | 2137         | ,168304<br>3507  | 5899             | 8107         |              |
| J                |            | ,                 | J 4 J                  | 77.40    | ~ /          | JJ07             |                  | 0107         |              |

| River | Rch | δ <sub>c</sub> | RM=raymondville, reach | 2 |         | ,164919 |      |      |
|-------|-----|----------------|------------------------|---|---------|---------|------|------|
|       | 3   |                | 63 141 489             |   | 1010    | 1747    | 4547 | 7752 |
| River | Rch | &              | RM=raymondville, reach | 2 |         | ,150792 |      |      |
|       | 3   |                | 111 315 821            |   | 1518    | 2558    | 5036 | 8565 |
| River | Rch | &              | RM=raymondville,reach  | 2 |         | ,149670 |      |      |
|       | 3   |                | 91 283 694             |   | 1202    | 1714    | 3224 | 5186 |
| River | Rch | &              | RM=raymondville,reach  | 3 | (south) | ,144530 |      |      |
|       | 1   |                | 9 67 201               |   |         | 528     | 846  | 1148 |
| River | Rch | &              | RM=raymondville,reach  | 1 |         | ,109185 |      |      |
|       | 3   |                |                        |   | 1346    | 1918    | 3351 | 5312 |
| River | Rch | &              | RM=raymondville,reach  | 1 |         | ,86117  |      |      |
|       | 3   |                |                        |   | 2190    | 3160    | 5217 | 7333 |
| River |     |                | RM=raymondville,reach  |   |         | ,69075  |      |      |
|       | 3   |                |                        |   | 2332    | 3398    | 5717 | 8244 |
| River |     |                | RM=raymondville,reach  |   |         | ,54733  |      |      |
|       | 3   |                |                        |   | 2439    | 3552    | 5968 | 8639 |
| River |     | &              | RM=raymondville,reach  | 1 |         | ,52753  |      |      |
|       | 18  |                | 189 650 1371           |   | 2015    | 3073    | 5458 | 8046 |
| River |     |                | RM=raymondville,reach  |   |         | ,34845  |      |      |
|       | 82  |                |                        |   | 2255    | 2856    | 4673 | 7211 |
| River |     |                | RM=La Sal Vieja, Reach | 1 |         | ,15060  |      |      |
|       | 1   |                | 34 190 743             |   | 1278    | 1876    | 1739 | 1182 |

Flow Title=Proposed - 10% Diversion Exist Dev 2 Version=Version 3.0.1 Mar 2001

|            |          |     | sion 3.0.       |                | 2001            |                 |                  |        |           |              |
|------------|----------|-----|-----------------|----------------|-----------------|-----------------|------------------|--------|-----------|--------------|
|            |          |     | rofiles=        |                |                 |                 |                  |        |           |              |
| Profi      | lle N    | ame | es=2-year       | ,5-yea         | r,10-yea        | ar,25-yea       | ar,50-year       | ,100-y | ear,250-y | ear,500-year |
| River      | Rch      | &   | RM=North        | Main,          | reach 4         |                 | ,331370          |        |           |              |
| <b>.</b>   | 12       |     | 94              | 184            | 335             | 478             | 654              | 951    | 1229      |              |
| Rivei      |          | &   | RM=North        |                | reach 2         |                 | ,157900          |        |           |              |
| D          | 1        | _   | 2               | 3              | 40              | 100             | 188              | 352    | 515       |              |
| KTA61      |          | òε  | RM=North        |                |                 | 1051            | ,144259          |        |           |              |
| Dizzon     | 13       | ·   | 81<br>RM=North  | 153<br>Main    | 482             | 1051            | 1858             | 3255   | 4804      |              |
| KIVEI      | . Ren    | ĊC  | 204             | Main,<br>468   | reach 2<br>962  | 1005            | ,132334          | CD10   | 0550      |              |
| Rissan     |          | £.  | RM=North        |                |                 |                 | 3435<br>,117690  | 6219   | 8788      |              |
| 1(1,401    | 15       | O.  | 224             | 511            | 1120            |                 | 4175             | 7265   | 10250     |              |
| River      |          | æ   | RM=North        |                |                 | (eouth)         | 315706           | 7205   | 10250     |              |
|            | 12       | _   | 94              | 184            | 335             | 478             | 654              | 951    | 1229      |              |
| River      |          | &   | RM=North        |                |                 | (south)         | 315287           | 731    | 1229      |              |
|            | 12       |     | 94              | 208            | 475             | 760             | 1133             | 1782   | 2403      |              |
| River      | Rch      | &   | RM=North        | Main,          | reach 3         | (south)         | ,286897          |        | - 100     |              |
|            | 40       |     | 208             | 436            | 903             | 1384            |                  | 3069   | 4084      |              |
| River      | Rch      | δ¢  | RM=North        | Main,          | reach 3         | (south)         | ,271000          |        |           |              |
|            | 64       |     | 301             | 594            | 1163            | 1740            |                  | 3728   | 4913      |              |
| River      |          | δε  | RM=North        |                |                 |                 |                  |        |           |              |
|            | 77       |     | 378             | 741            | 1425            |                 |                  | 4467   | 5843      |              |
| River      |          | &   | RM=North        |                |                 |                 |                  |        |           |              |
| n/ -       | 77       | _   | 378             | 751            | 1491            | 2247            | 3218             | 4896   | 6480      |              |
| River      |          | òκ  | RM=North        |                |                 |                 |                  | =04=   |           |              |
| Direct     | 14       | _   | 222             | 508            | 1045            | 2105            | 3500             | 5815   | 8125      |              |
| KIVEL      | 14       | òκ  | RM=North 223    |                |                 |                 |                  | 5056   | 7501      |              |
| Piwor      |          | c.  | RM=North        | 519<br>Main    |                 | 1918            | 3216             | 5056   | 7581      |              |
| KTAGI      | 14       | ΟX  | 223             | 518            | 1152            | 1957            | 3283             | 5082   | 7681      |              |
| River      |          | æ   | RM=North        |                |                 |                 |                  | 3002   | 7001      |              |
|            | 31       | •   | 279             | 609            | 1341            | 2135            | 3274             | 4996   | 7280      |              |
| River      | Rch      | &   | RM=North        |                |                 |                 | ,233824          | 1,500  | 7200      |              |
|            | 100      |     | 615             | 1277           | 2832            | 4477            | 6370             | 8881   | 11243     |              |
| River      | Rch      | &   | RM=North        |                |                 |                 | ,188000          |        |           |              |
|            | 69       |     | 459             | 1017           | 2210            | 3297            | 4576             | 7099   | 9768      |              |
| River      | Rch      | &   | RM=North        | Main,          | reach 1         |                 | ,150000.         |        |           |              |
|            | 68       |     |                 | 1033           | 2193            | 3268            | 4467             | 6901   | 9626      |              |
| River      |          | &   | RM=North        |                |                 |                 | ,136000.         |        |           |              |
|            | 68       |     |                 | 1060           | 2231            | 3297            | 4485             | 6923   | 9646      |              |
|            |          |     | RM=North        |                |                 | 2000            | ,132000.         |        |           |              |
|            |          |     | 463             |                |                 | 3292            |                  | 6868   | 9631      |              |
| River      | 68       | ٥c  | RM=North        | маіп,:<br>1073 | reach 1<br>2246 | 2205            | ,116000.         | CDC1   | 0.63.4    |              |
| Divor      |          | ς.  | RM=North        |                |                 | 3305            | 4495             | 6861   | 9634      |              |
| VIAGI      | 67       | οc  |                 | 1172           | 2606            | 3832            | ,110000.<br>5317 | 7569   | 9919      |              |
| River      |          | æ   | RM=North        |                |                 | 3032            | ,84000.          | 1309   | 3313      |              |
| 1(1 ( )    | 67       | ۵.  |                 | 1190           | 2638            | 3864            | 5358             | 7647   | 10137     |              |
| River      |          | &   | RM=North        |                |                 | 3001            | ,68373           | 1047   | 10137     |              |
|            | 66       | -   |                 | 1306           | 2899            | 4250            | 5798             | 8422   | 11397     |              |
| River      | Rch      | &   | RM=North        |                |                 |                 | ,52275           | 0      |           |              |
|            | 65       |     |                 | 1303           | 2903            | 4244            | 5787             | 8236   | 10851     |              |
| River      | Rch      | δc  | RM=North        | Main,          | reach 1         |                 | ,29585           |        |           |              |
|            | 64       |     |                 | 1327           | 3103            | 4291            | 5824             | 7883   | 10745     |              |
| River      | Rch      | &   | RM=North        |                | reach 1         |                 | ,10000.          |        |           |              |
|            | 64       |     |                 | 1332           | 3243            | 4357            | 5834             | 7889   | 10756     |              |
| River      |          | &   | RM=North        |                |                 |                 | ,8000.           |        |           |              |
|            | 96       |     |                 | 1332           | 3292            | 4457            | 5868             | 7978   | 10725     |              |
| River      |          | &   | RM=North        |                |                 | 4000            | ,2000.           |        |           |              |
| <b>.</b> . | 109      | _   |                 | 1350           | 3575            | 4920            | 6522             | 8929   | 10850     |              |
| River      |          | ٥c  | RM=raymon       |                |                 |                 | ,296300          | 1704   | 0.450     |              |
| D          | 1<br>Pah | r   | 17              | 52<br>admi 71. | 151             | 363             | 845              | 1704   | 2458      |              |
| kiver      |          | ٥c  | RM=raymon       |                |                 |                 | ,279700          | 1122   | 1070      |              |
| Direc      | 1<br>Pah | ç   | 17<br>RM=raymon | 52<br>advilla  | 152             | 307             | 602              | 1133   | 1878      |              |
| river      | Ren<br>1 | Ċκ  | RM=raymon<br>17 | 56<br>56       | e,keacn<br>270  | 8<br>539        | ,260550          | 1684   | 2120      |              |
| River      |          | £   | RM=raymon       |                |                 |                 | 926<br>,240200   | 1004   | 2120      |              |
| 1/T A CT   | 3        | Œ   | 24              | 73             | 398             | 803             | 1361             | 2280   | 2999      |              |
| River      | _        | ۶   | RM=raymor       |                |                 |                 | ,168304          | 2240   |           |              |
|            | 3        | -   | 75              | 303            | 1146            | 2137            | 3508             | 5936   | 8109      |              |
|            | -        |     | . =             | •              |                 | - <del></del> · |                  | •      | 22        |              |

| River | Rch | &  | RM=raymondville,reach 2  | ? |      | ,164919 |      |      |
|-------|-----|----|--------------------------|---|------|---------|------|------|
|       |     |    | 62 133 489               |   |      | 1756    | 3718 | 7639 |
| River | Rch | &  | RM=raymondville, reach 2 | 3 |      | ,150792 |      |      |
|       | 3   |    |                          |   | 1520 |         | 4470 | 8467 |
| River |     |    | RM=raymondville,reach 2  |   |      | ,149670 |      |      |
|       |     |    | 90 280 692               |   | 1202 | 1713    | 2904 | 5147 |
| River |     |    | RM=raymondville,reach 3  |   |      |         |      |      |
|       |     |    | 9 67 200                 |   |      | 526     | 844  | 1146 |
| River | Rch | &  | RM=raymondville, reach 1 |   |      | ,109185 |      |      |
|       | 3   |    |                          |   |      | 1918    | 3068 | 5277 |
| River | Rch | δc | RM=raymondville, reach 1 |   |      | ,86117  |      |      |
|       | 3   |    | 161 548 1368             |   | 2187 | 3154    | 5234 | 7316 |
| River | Rch | &  | RM=raymondville, reach 1 | L |      | ,69075  |      |      |
|       | 3   |    | 185 652 1519             |   | 2330 | 3393    | 5736 | 8230 |
| River | Rch | &  | RM=raymondville, reach 1 | Ļ |      | ,54733  |      |      |
|       | 3   |    |                          |   |      | 3547    | 5986 | 8624 |
| River | Rch | &  | RM=raymondville, reach 1 | L |      | ,52753  |      |      |
|       | 18  |    | 189 649 1369             |   | 2012 | 3067    | 5477 | 8032 |
| River | Rch | &  | RM=raymondville, reach 1 | L |      | ,34845  |      |      |
|       | 82  |    | 429 891 1714             |   | 2255 | 2856    | 4684 | 7200 |
| River | Rch | &  | RM=La Sal Vieja, Reach 1 | L |      | ,15060  |      |      |
|       | 1   |    | 35 198 743               |   | 1278 | 1869    | 2458 | 1193 |
|       |     |    |                          |   |      |         |      |      |

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Flow Title=Proposed - 25% Diversion Version=Version 3.0.1 Mar 2001

|              |       |              | sion 3.0.1 |        | 2001            |               |               |         |            |             |
|--------------|-------|--------------|------------|--------|-----------------|---------------|---------------|---------|------------|-------------|
|              |       |              | rofiles= 8 |        |                 |               |               |         |            |             |
| Profil       | le Na | am.          | es=2-year  | ,5-yea | r,10-yea        | ar,25-yea     |               | ,100-y  | ear,250-ye | ar,500-year |
| River        |       | &            | RM=North   |        | reach 4         |               | ,331370       |         |            |             |
|              | 17    |              | 123        | 233    | 410             | 573           | 770           | 1093    | 1392       |             |
| River        | Rch   | &            | RM=North   | Main,  | reach 2         |               | ,157900       |         |            |             |
|              | 1     |              | 2          | 3      | 40              | 100           | 188           | 352     | 515        |             |
| River        | Rch   | &            | RM=North   | Main,  | reach 2         |               | ,144259       |         |            |             |
|              | 13    |              | 81         | 153    | 482             | 1051          | 1858          | 3255    | 4804       |             |
| River        | Rch   | δc           | RM=North   | Main.  | reach 2         | _             | ,132334       |         | -002       |             |
|              | 14    |              | 204        | 468    | 962             | 1985          | 3435          | 6219    | 8788       |             |
| River        |       | s.           | RM=North   |        |                 |               | ,117690       | 0417    | 0700       |             |
| 112 4 61     | 15    | O.           | 224        | 511    | reach 2<br>1120 | 2355          | 4175          | 7265    | 10050      |             |
| Dirrom       |       |              |            |        | 1120            | 2353          |               | 7265    | 10250      |             |
| KIAGI        |       | œ            | RM=North   |        |                 |               |               |         |            |             |
|              | 17    | _            | 123        | 233    | 410             | 573           | 770           | 1093    | 1392       |             |
| River        |       | δc           | RM=North   |        |                 |               |               |         |            |             |
|              | 17    |              | 123        | 261    | 569             |               | 1298          | 1995    | 2652       |             |
| River        | Rch   | &            | RM=North   |        | reach 3         |               |               |         |            |             |
|              | 57    |              | 263        | 524    | 1044            |               | 2228          | 3352    | 4412       |             |
| River        | Rch   | &            | RM=North   | Main,  | reach 3         | (south)       | ,271000       |         |            |             |
|              | 81    |              | 357        | 684    |                 |               | 2703          | 4016    | 5237       |             |
| River        | Rch   | &            | RM=North   |        |                 |               |               |         | ,          |             |
|              | 94    |              | 433        | 829    | 1565            | 2291          | 3206          | 4753    | 6165       |             |
| River        |       | £            | RM=North   |        |                 |               |               | 4/00    | 0103       |             |
| 111101       | 94    | •            |            | 838    | 1630            | 2428          | 3444          | 5182    | 6802       |             |
| Piwor        |       | c            | RM=North   |        |                 |               |               | 3104    | 0002       |             |
| KIVEI        |       | œ            | 164        | 361    | 785             |               |               | 3045    | F C O O    |             |
| <b>7</b> 0 3 | 11    | _            |            |        |                 | 1580          | 2700          | 3845    | 5600       |             |
| River        |       | òc           | RM=North   |        |                 |               |               |         |            |             |
|              | 11    |              | 167        | 379    | 880             | 1517          | 2546          | 3551    | 4853       |             |
| River        | Rch   | δc           | RM=North   |        |                 | version.      | ,98900        |         |            |             |
|              | 11    |              | 167        | 378    | 896             | 15 <b>7</b> 3 | 2645          | 3669    | 4959       |             |
| River        | Rch   | &            | RM=North   | Main,  | below di        | version       | ,73000        |         |            |             |
|              | 28    |              | 225        | 474    | 1085            | 1812          | 2685          | 3686    | 4893       |             |
| River        | Rch   | &            | RM=North   | Main.  | reach 1         |               | ,233824       |         |            |             |
|              | 15    |              |            | .265   | 2722            |               | 6086          | 8735    | 10949      |             |
|              |       | æ            | RM=North   |        |                 |               | ,188000       | 0,55    | 10242      |             |
|              | 79    | ~            |            | .005   | 2131            |               | 4396          | 6954    | 9519       |             |
| Piwer        |       | r.           | RM=North   |        |                 |               | ,150000.      | 0334    | 2213       |             |
| KIVEL        |       | οc           |            | .017   | 2121            | 2102          |               | 6700    | 0000       |             |
| n :          | 78    | _            |            |        |                 |               | 4299          | 6723    | 9227       |             |
| River        |       | δc           | RM=North   |        |                 |               | ,136000.      |         |            |             |
|              | 78    |              |            | .041   | 2160            |               | 4321          | 6750    | 9267       |             |
|              |       |              | RM=North   |        |                 |               | ,132000.      |         |            |             |
|              | 78    |              | 470 1      | 042    | 2160            | 3225          | 4273          | 6674    | 9224       |             |
| River        | Rch   | δc           | RM=North   | Main,  | reach 1         |               | ,116000.      |         |            |             |
|              | 78    |              | 470 1      | .051   | 2180            | 3241          | 4459          | 6663    | 9225       |             |
| River        | Rch   | δe           | RM=North   | Main.  | reach 1         |               | ,110000.      |         |            |             |
|              | 77    |              |            | 141    | 2536            | 3783          | 5288          | 7557    | 9904       |             |
| River        |       | æ            | RM=North   |        |                 |               | ,84000.       | , 55.   | 230.       |             |
| 112.01       | 76    | ~            |            | 155    | 2576            | 3822          | 5333          | 7636    | 10123      |             |
| Pivor        |       | ς.           | RM=North   |        |                 |               | ,68373        | 1030    | 10123      |             |
| KIAGI        | 76    | œ            |            |        |                 |               |               | 0412    | 11202      |             |
| D            |       | c            |            | 262    | 2850            | 4215          | 5778<br>52275 | 8413    | 11383      |             |
|              |       | òς           | RM=North   |        |                 |               | ,52275        |         |            |             |
|              | 74    |              |            | 258    | 2856            | 4210          | 5767          | 8226    | 10840      |             |
|              |       | &            | RM=North   |        |                 |               | ,29585        |         |            |             |
|              | 73    |              | 473 1      | 277    | 3102            | 4262          | 5805          | 7874    | 10731      |             |
| River        | Rch   | &            | RM=North   | Main,  | reach 1         |               | ,10000.       |         |            |             |
|              | 73    |              | 473 1      | 281    | 3241            | 4357          | 5816          | 7880    | 10743      |             |
| River        | Rch   | &            | RM=North   |        |                 |               | ,8000.        |         |            |             |
|              | 96    |              |            | 281    | 3291            | 4457          | 5868          | 7978    | 10712      |             |
| River        |       | £.           | RM=North   |        |                 |               | ,2000.        |         |            |             |
|              | 09    | •            |            | 340    | 3575            | 4920          | 6522          | 8929    | 10850      |             |
| _            |       | 2            | RM=raymon  |        |                 |               | ,296300       | J J Z J | 10000      |             |
| vivel        |       | œ            |            |        |                 |               |               | 2677    | 4000       |             |
| n.i          | 6     | _            |            | 160    | 395             | 887           | 1645          | 3673    | 4983       |             |
| River        |       | δć           | RM=raymon  |        |                 |               | ,279700       |         |            |             |
|              | 5     |              |            | 159    | 414             | 804           | 1447          | 3088    | 4526       |             |
| River        | Rch   | &            | RM=raymon  |        |                 |               | ,260550       |         |            |             |
|              | 5     |              |            | 166    | 529             | 986           | 1536          | 3163    | 4675       |             |
| River        | Rch   | δc           | RM=raymon  | dville | e,Reach         | 8             | ,240200       |         |            |             |
|              | 5     |              |            | 178    | 624             | 1186          | 1705          | 2817    | 4264       |             |
| River        | Rch   | <u>&amp;</u> | RM=raymon  |        |                 |               | ,168304       | • •     |            |             |
|              | 5     |              |            |        | 1342            | 2463          | 3863          | 6112    | 8322       |             |
|              | -     |              |            |        | <del>-</del>    |               |               |         | -500       |             |

| River | Rch | &  | RM=raymondville,reach  | 2 |         | ,164919 |      |      |
|-------|-----|----|------------------------|---|---------|---------|------|------|
|       |     |    | 77 189 532             |   |         | 2069    | 4833 | 7958 |
| River | Rch | &  | RM=raymondville,reach  | 2 |         | ,150792 |      |      |
|       | 5   |    | 117 332 860            |   | 1317    | 2708    | 5500 | 8925 |
| River | Rch | &  | RM=raymondville,reach  | 2 |         | ,149670 |      |      |
|       | 5   |    | 96 286 710             |   | 1130    | 1632    | 3402 | 5391 |
| River | Rch | &  | RM=raymondville,reach  | 3 | (south) | ,144530 |      |      |
|       | 1.  |    | 9 67 201               |   | 343     | 528     | 846  | 1148 |
| River | Rch | &  | RM=raymondville,reach  | 1 |         | ,109185 |      |      |
|       | 5   |    |                        |   | 1302    | 1852    | 3526 | 5522 |
| River | Rch | 84 | RM=raymondville,reach  | 1 |         | ,86117  |      |      |
|       | 5   |    | 161 548 1373           |   | 2192    | 3160    | 5237 | 7314 |
| River | Rch | &  | RM=raymondville,reach  |   |         | ,69075  |      |      |
|       | 5   |    | 185 652 1523           |   | 2333    | 3393    | 5726 | 8210 |
| River | Rch | δc | RM=raymondville,reach  | 1 |         | ,54733  |      |      |
|       | 5   |    | 197 694 1595           |   | 2440    | 3548    | 5979 | 8609 |
| River | Rch | &  | RM=raymondville,reach  | 1 |         | ,52753  |      |      |
|       | 18  |    | 189 651 1374           |   | 2011    | 3058    | 5466 | 8012 |
| River | Rch | &  | RM=raymondville, reach | 1 |         | ,34845  |      |      |
|       | 82  |    | 429 891 1714           |   | 2255    | 2856    | 4683 | 7187 |
| River | Rch | &  | RM=La Sal Vieja, Reach | 1 |         | ,15060  |      |      |
|       | 1   |    | 47 238 766             |   | 1308    | 2030    | 1790 | 1235 |

| Versi     | on=V      | er      | Proposed sion 3.0.1   | l Mar          |                | on Exist | Dev                   |          |           |                |
|-----------|-----------|---------|-----------------------|----------------|----------------|----------|-----------------------|----------|-----------|----------------|
|           |           |         | rofiles= 8            |                | 10             | OF       | .a                    | 100      | 0         |                |
| River     | re Na     | me<br>a | es=2-year<br>RM=North | ,5-yea<br>Main | reach 1        | ar,25-ye | ar,50-year<br>,331370 | ., T00-7 | /ear,250- | -year,500-year |
| 111101    | 12        | ū.      | 94                    | 184            | 335            |          | 654                   | 951      | 1229      |                |
| River     | Rch       | &       | RM=North              |                | reach 2        |          | ,157900               | 7.7.1.   | 1229      |                |
|           | 1         |         | 2                     | 3              | 40             | 100      | 188                   | 352      | 515       |                |
| River     | Rch       | &       | RM=North              | Main,          | reach 2        |          | ,144259               |          |           |                |
|           | 13        |         | 81                    | 153            | 482            | 1051     | 1858                  | 3255     | 4804      |                |
| River     |           | &       | RM=North              |                |                |          | ,132334               |          |           |                |
| D         | 14        | _       | 204                   | 468            | 962            |          | 3435                  | 6219     | 8788      |                |
| River     |           | òε      | RM=North              |                |                |          | ,117690               | 50.6F    | 400       |                |
| River     | 15<br>Pch | ۲.      | 224<br>RM=North       | 511<br>Main    | 1120           |          | 4175                  | 7265     | 10250     |                |
| T(T V C T | 12        | O.      | 94                    | 184            | 335            | 478      | 654                   | 951      | 1229      |                |
| River     |           | &       | RM=North              |                |                |          |                       | 231      | 1229      |                |
|           | 12        |         | 94                    | 208            | 475            | 760      | 1133                  | 1782     | 2403      |                |
| River     | Rch       | &       | RM=North              | Main,          | reach 3        | (south)  | ,286897               |          | • _       |                |
|           | 40        |         | 208                   | 436            | 903            | 1384     |                       | 3069     | 4084      |                |
| River     |           | &       | RM=North              |                |                |          |                       |          |           |                |
| D. /      | 64        | _       | 301                   | 594            | 1163           | 1740     |                       | 3728     | 4913      |                |
| River     |           | δc      | RM=North              |                |                |          |                       | 4460     |           |                |
| Diver     | 77<br>Bah | С.      | 378<br>RM=North       | 741<br>Main    | 1425           | 2109     |                       | 4467     | 5843      |                |
| KIVEL     | 77        | œ       | 378                   | 751            | 1491           | 2247     | 3218                  | 4896     | 6480      |                |
| River     |           | ۶       | RM=North              |                |                |          |                       | 4030     | 0480      |                |
|           | 11        | -       | 164                   | 361            | 785            | 1580     | 2700                  | 4265     | 5600      |                |
| River     | Rch       | &       | RM=North              |                |                |          |                       | 1200     | 3000      |                |
|           | 11        |         | 167                   | 379            |                | 1517     | 2546                  | 3822     | 4970      |                |
| River     |           | &       | RM=North              |                |                |          | ,98900                |          |           |                |
|           | 11        |         | 167                   | 378            | 896            | 1573     | 2645                  | 3905     | 5078      |                |
| River     |           | &       | RM=North              |                |                |          |                       |          |           |                |
| Dirror    | 28<br>Bab | _       | 225<br>RM=North       | 474            | 1085           |          | 2685                  | 3890     | 5023      |                |
| KIVEL     | 98        | œ       |                       | малп,<br>l175  | 2580           |          | ,233824<br>5866       | 8486     | 10706     |                |
| River     |           | ۶.      | RM=North              |                |                | 4124     | ,188000               | 0400     | 10706     |                |
|           | 67        | ~       | 427                   | 940            | 2035           | 3121     | 4254                  | 6726     | 9276      | -              |
| River     | Rch       | δα      |                       |                |                |          | ,150000.              | 0,20     | 3210      |                |
|           | 67        |         | RM=North<br>428       | 950            | 2044           | 3100     | 4178                  | 6508     | 8993      |                |
| River     | Rch       | &       | RM=North              |                | reach 1        |          | ,136000.              |          |           |                |
|           | 67        |         |                       | 975            | 2103           |          | 4202                  | 6533     | 9032      |                |
| River     |           | δc      | RM=North              |                |                |          | ,132000.              |          |           |                |
| Birror    | 66<br>Bab | r       | 431                   | 974<br>Main    | 2099           | 3136     | 4165                  | 6450     | 8990      |                |
| KTAĞT     | 66        | Δ¢      | RM=North              | 982            | 2130           | 3157     | ,116000.<br>4448      | 6438     | 8992      |                |
| River     |           | æ       | RM=North              |                |                | 2131     | ,110000.              | 0436     | 0992      |                |
|           | 66        | _       |                       | .069           | 2503           | 3759     | 5266                  | 7552     | 9891      |                |
| River     | Rch       | &       | RM=North              |                | reach 1        |          | ,84000.               |          | ,,,,      |                |
|           | 65        |         |                       | 08.3           | 2548           | 3797     | 5314                  | 7632     | 10109     |                |
| River     |           | &       | RM=North              |                |                |          | ,68373                |          |           |                |
|           | 65        | _       |                       | .190           | 2833           | 4198     | 5763                  | 8409     | 11370     |                |
| River     |           | δc      | RM=North              |                |                | 4100     | ,52275                | 0001     | 10000     |                |
| Pivor     | 63<br>Pah | ç       | 440 1<br>RM=North     | .187<br>Main   | 2839           | 4193     | 5752<br>,29585        | 8221     | 10826     |                |
| VIAGI     | 62        | œ       |                       | .208           | 3102           | 4250     | 5791                  | 7868     | 10714     |                |
| River     |           | £.      | RM=North              |                |                | 1230     | ,10000.               | 7000     | 10714     |                |
|           | 62        |         |                       | .222           | 3241           | 4357     | 5803                  | 7873     | 10725     | •              |
| River     | Rch       | &       | RM=North              | Main,          | reach 1        |          | ,8000.                |          |           |                |
|           | 96        |         |                       | .224           | 3291           | 4457     | 5868                  | 7978     | 10692     |                |
|           |           | &       | RM=North              |                |                |          | ,2000.                |          |           |                |
|           | L09       | _       |                       | 340            | 3574           | 4920     | 6522                  | 8929     | 10850     |                |
| River     | KCD<br>6  | òς      | RM=raymon             | 160            | e,Reach<br>395 |          | ,296300               | 2052     | 4003      |                |
| Divor     | _         | ۲.      | RM=raymon             |                |                | 887      | 1645<br>,279700       | 3253     | 4983      |                |
| KIVEL     | 5         | ΟC      | 68                    | 159            | 414            | 804      | 1447                  | 2763     | 4434      |                |
| River     |           | &       | RM=raymon             |                |                |          | ,260550               | 2703     | ュュンポ      |                |
|           | 5         |         |                       | 166            | 529            | 989      | 1536                  | 2853     | 4578      |                |
| River     | Rch       | &       | RM=raymon             |                | e,Reach        |          | ,240200               | •        |           |                |
|           | 5         |         | 65                    | 178            | 624            | 1189     | 1705                  | 2603     | 4139      |                |
| River     |           | &       | RM=raymon             |                |                |          | ,168304               |          |           |                |
|           | 5         |         | 109                   | 402            | 1342           | 2469     | 3863                  | 6112     | 8313      |                |

| River   | Rch | £ | RM=raymondville,reach  | 2 |         | ,164919 |      |      |
|---------|-----|---|------------------------|---|---------|---------|------|------|
| 114.701 | 5   |   | -                      |   | 1099    | •       | 4581 | 7768 |
| River   | Rch | & | RM=raymondville, reach | 2 |         | ,150792 | _    |      |
|         | 5   |   | 120 333 861            |   | 1325    | 2716    | 5296 | 8770 |
| River   | Rch | & | RM=raymondville,reach  | 2 |         | ,149670 |      |      |
|         | 5   |   | 99 288 711             |   | 1131    | 1633    | 3310 | 5326 |
| River   | Rch | & | RM=raymondville,reach  | 3 | (south) | ,144530 |      |      |
|         | 1   |   | 9 67 200               |   |         | 526     | 844  | 1146 |
| River   | Rch | & | RM=raymondville,reach  | 1 |         | ,109185 |      |      |
|         | 5   |   | 200 022 022            |   | 1302    | 1852    | 3442 | 5458 |
| River   |     |   | RM=raymondville,reach  |   |         | ,86117  |      |      |
|         | 5   |   |                        |   | 2189    | 3155    | 5222 | 7292 |
| River   |     |   | RM=raymondville,reach  |   |         | ,69075  |      |      |
|         | 5   |   |                        |   | 2331    | 3389    | 5714 | 8192 |
| River   |     |   | RM=raymondville,reach  |   |         | ,54733  |      |      |
|         | 5   |   |                        |   | 2438    | 3544    | 5966 | 8589 |
| River   |     |   | RM=raymondville,reach  |   |         | ,52753  |      |      |
|         | 18  |   |                        |   | 2009    | 3054    | 5453 | 7993 |
| River   |     |   | RM=raymondville,reach  |   |         | ,34845  |      |      |
|         |     |   | 429 891 1714           |   | 2255    | 2856    | 4671 | 7171 |
| River   |     | & | RM=La Sal Vieja, Reach |   |         | ,15060  |      |      |
|         | 1   |   | 43 238 765             |   | 1309    | 2021    | 1969 | 1240 |

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| Version=Version 3.0.1 Mar 2001              |                           |
|---|---------------------------|
| Number of Profiles= 8                       | F0 100                    |
| Profile Names=2-year,5-year,10-year,25-year |                           |
| River Rch & RM=North Main, reach 4          | ,331370                   |
| 17 123 233 410 573                          | 770 1093 1392             |
| River Rch & RM=North Main, reach 2          | ,157900                   |
| 1 2 3 40 100                                | 188 352 515               |
| River Rch & RM=North Main, reach 2          | ,144259                   |
| 13 81 153 482 1051                          | 1858 3255 4804            |
| River Rch & RM=North Main, reach 2          | ,132334                   |
| 14 204 468 962 1985                         | 3435 6219 8788            |
| River Rch & RM=North Main, reach 2          | ,117690                   |
| 15 224 511 1120 2355                        | 4175 7265 10250           |
|   | ,315796                   |
| 17 123 233 410 573                          | 770 1093 1392             |
| River Rch & RM=North Main, reach 3 (south)  |                           |
| 17 123 261 569 889                          | 1298 1995 2652            |
| River Rch & RM=North Main, reach 3 (south)  |                           |
| 57 263 524 1044 1567                        | 2228 3352 4412            |
| River Rch & RM=North Main, reach 3 (south)  |                           |
| 81 357 684 1306 1925                        |                           |
|   | 2703 4016 5237            |
| River Rch & RM=North Main, reach 3 (south)  |                           |
| 94 433 829 1565 2291                        | 3206 4753 6165            |
| River Rch & RM=North Main, reach 3 (south)  |                           |
| 94 433 838 1630 2428                        | 3444 5182 6802            |
| River Rch & RM=North Main, below diversion  |                           |
| 6 110 246 550 1180                          | 1975 3215 4000            |
| River Rch & RM=North Main, below diversion  | ,105420                   |
| 6 115 269 649 1200                          | 1878 3002 3703            |
| River Rch & RM=North Main, below diversion  | ,98900                    |
| 6 115 268 665 1249                          | 1979 3176 3903            |
| River Rch & RM=North Main, below diversion  | ,73000                    |
| 23 175 368 856 1516                         | 2106 3208 3932            |
| River Rch & RM=North Main, reach 1          | ,233824                   |
| 111 588 1180 2496 3976                      | 5665 8326 10632           |
| River Rch & RM=North Main, reach 1          | ,188000                   |
| 76 437 943 1974 3035                        | 4140 6547 9192            |
| River Rch & RM=North Main, reach 1          | ,150000.                  |
| 76 436 951 2001 3014                        | 4076 6297 8892            |
| River Rch & RM=North Main, reach 1          |                           |
|   | ,136000.                  |
|   | 4109 6325 8932            |
| River Rch & RM=North Main, reach 1          | ,132000.                  |
| 75 440 971 2051 3056                        | 4078 6206 8885            |
| River Rch & RM=North Main, reach 1          | ,116000.                  |
| 75 440 979 2074 3101                        | 4409 6192 8884            |
| River Rch & RM=North Main, reach 1          | ,110000.                  |
| 74 441 1059 2440 3700                       | 5229 7538 9869            |
| River Rch & RM=North Main,reach 1           | ,84000.                   |
| 74 441 1070 2493 3742                       | 5283 7620 10088           |
| River Rch & RM=North Main, reach 1          | , 68373                   |
| 73 452 1168 2790 4154                       | 5739 8398 11350           |
| River Rch & RM=North Main, reach 1          | ,52275                    |
| 72 445 1164 2798 4150                       | 5728 8210 10810           |
| River Rch & RM=North Main, reach 1          | ,29585                    |
| 70 442 1180 3101 4233                       | 5770 7858 10695           |
| River Rch & RM=North Main, reach 1          | ,10000.                   |
| 70 442 1198 3240 4357                       | 5782 7864 10706           |
| River Rch & RM=North Main, reach 1          | ,8000.                    |
| 96 497 1201 3290 4457                       | 5868 7978 10673           |
| River Rch & RM=North Main, reach 1          | ,2000.                    |
| 109 603 1340 3574 4919                      | 6522 8929 10850           |
|   |                           |
| River Rch & RM=raymondville, Reach 8        | ,296300<br>2370 4303 6583 |
| 10 120 275 629 1287                         | 2370 4303 6583            |
| River Rch & RM=raymondville, Reach 8        | ,279700                   |
| 10 108 267 656 1240                         | 2315 4071 6197            |
| River Rch & RM=raymondville, Reach 8        | , 260550                  |
| 9 108 270 770 1434                          | 2395 4207 6408            |
| River Rch & RM=raymondville,Reach 8         | ,240200                   |
| 8 104 263 831 1497                          | 2298 3869 5757            |
| River Rch & RM=raymondville,Reach 8         | ,168304                   |
| 8 146 486 1523 2763                         | 4255 6945 9289            |
|   |                           |

| River   | Dah | ς. | RM=raymo  | ndville  | reach   | 2  |         | ,164919 |      |      |
|---------|-----|----|-----------|----------|---------|----|---------|---------|------|------|
| MIVEL   | 8   |    | •         | 230      |         | 2, | 1363    | 2177    |      | 0010 |
| Directo | _   |    |           |          |         | 2  | 1303    |         | 3779 | 8918 |
| KTVEL   |     | òε | RM=raymon |          | •       |    | 1000    | ,150792 |      |      |
|         | 8   |    | 125       |          |         |    | 1823    | 2704    | 6214 | 9738 |
| River   | Rch | &  | RM=raymon |          |         | 2  |         | ,149670 |      |      |
|         | 7   |    | 104       | 298      | 787     |    | 1264    | 1810    | 4129 | 6269 |
| River   | Rch | &  | RM=raymon | ndville  | reach,  | 3  | (south) | ,144530 |      |      |
|         | 1   |    | 9         | 67       | 201     |    | 343     | 528     | 846  | 1148 |
| River   | Rch | &  | RM=raymon | ndville  | ,reach  | 1  |         | ,109185 |      |      |
|         | 7   |    | 109       | 334      | 907     |    | 1437    | 1991    | 4256 | 6391 |
| River   | Rch | &  | RM=raymon | ndville  | ,reach  | 1  |         | ,86117  |      |      |
|         | 7   |    | 161       | 549      | 1375    |    | 2192    | 3163    | 5261 | 7349 |
| River   | Rch | &  | RM=raymon | ndville  | ,reach  | 1  |         | ,69075  |      |      |
|         | 7   |    | 185       | 653      | 1526    |    | 2336    | 3404    | 5769 | 8267 |
| River   | Rch | &  | RM=raymon | ndville  | , reach | 1  |         | ,54733  |      |      |
|         | 7   |    | 197       | 694      | 1597    |    | 2442    | 3556    | 6016 | 8659 |
| River   | Rch | &  | RM=raymon | ndville  | , reach | 1  |         | ,52753  |      |      |
|         | 18  |    | 190       | 651      | 1379    |    | 2028    | 3083    | 5517 | 8075 |
| River   | Rch | &  | RM=raymon | ndville, | reach,  | 1  |         | ,34845  |      |      |
|         | 82  |    | 429       | 891      | 1714    |    | 2255    | 2856    | 4745 | 7259 |
| River   | Rch | &  | RM=La Sa  | l Vieja, | ,Reach  | 1  |         | ,15060  |      |      |
|         | 1   |    | 63        | 280      | 923     |    | 1531    | 2121    | 1569 | 1107 |

Flow Title=Proposed - 50% Diversion Exist Dev Version=Version 3.0.1 Mar 2001

| Version=Version 3.0.1 Mar 2001  |                                     |
|---|-------------------------------------|
| Number of Profiles ≈ 8  | 50                                  |
| Profile Names=2-year,5-year,10-year,25-year   | ,50-year,100-year,250-year,500-year |
| River Rch & RM=North Main,reach 4 , 12 94 184 335 478   | 654 951 1229                        |
| River Rch & RM=North Main, reach 2  | 157900                              |
| 1 2 3 40 100  | 188 352 515                         |
| River Rch & RM=North Main, reach 2 ,  | 144259                              |
| 13 81 153 482 1051  | 1858 3255 4804                      |
| River Rch & RM=North Main, reach 2 ,  | 132334                              |
| River Rch & RM=North Main, reach 2 , 14 204 468 962 1985 River Rch & RM=North Main, reach 2 , | 3435 6219 8788                      |
| 15 224 511 1120 2355  | 4175 7265 10250                     |
| River Rch & RM=North Main, reach 3 (south) ,  |                                     |
| 12 94 184 335 478   |                                     |
| River Rch & RM=North Main, reach 3 (south) ,  | 315287                              |
| 12 94 208 475 760   |                                     |
| River Rch & RM=North Main, reach 3 (south) , 40 208 436 903 1384                              |                                     |
| River Rch & RM=North Main, reach 3 (south) ,  | 2002 3069 4084<br>271000            |
| 64 301 594 1163 1740  |                                     |
| River Rch & RM=North Main, reach 3 (south) ,  | 260000                              |
| 77 378 741 1425 2109  | 2978 4467 5843                      |
| River Rch & RM=North Main, reach 3 (south),   |                                     |
| 77 378 751 1491 2247 River Rch & RM=North Main, below diversion ,                             |                                     |
| 6 110 246 550 1180  | 1975 3215 4150                      |
| River Rch & RM=North Main, below diversion ,  |                                     |
| 6 115 269 649 1200  |                                     |
| River Rch & RM=North Main, below diversion ,  | 98900                               |
| 6 115 268 665 1249  | 1979 3176 3977                      |
| River Rch & RM=North Main, below diversion,   |                                     |
| 23 175 368 973 1516  River Roh & RM=North Main reach 1  | 2106 3208 3993<br>233824            |
| River Rch & RM=North Main, reach 1 , 94 531 1089 2353 3790                                    | 5442 8045 10323                     |
| River Rch & RM=North Main, reach 1  | 188000                              |
| 65 397 877 1877 2949  | 4008 6270 8882                      |
| River Rch & RM=North Main, reach 1 ,  | 150000.                             |
| 64 397 885 1887 2962  | 4014 6271 8884                      |
|   | 136000.<br>3969 6007 8588           |
|   | 132000.                             |
| 64 401 905 1966 2976  | 4000 5899 8581                      |
|   | 116000.                             |
| 64 401 912 2012 3057  | 4396 5977 8581                      |
|   | 110000.                             |
|   | 5207 7521 9856<br>84000.            |
| 63 403 997 2461 3708  | 5262 7604 10073                     |
|   | 68373                               |
| 62 414 1092 2772 4125   | 5724 8384 11337                     |
|   | 52275                               |
| 61 409 1091 2871 4122<br>River Rch & RM=North Main, reach 1                                   | 5713 8195 10796                     |
| 60 406 1170 3100 4219   | 29585<br>5756 7843 10677            |
|   | 10000.                              |
| 60 429 1191 3240 4356   | 5768 7849 10688                     |
|   | 8000.                               |
| 96 497 1194 3290 4457   | 5868 7978 10653                     |
|   | 2000.                               |
| 109 603 1340 3574 4919 River Rch & RM=raymondville, Reach 8                                   | 6522 8929 10850<br>,296300          |
| 10 120 275 629 1287   | 2370 4303 6433                      |
| River Rch & RM=raymondville, Reach 8  | ,279700                             |
| 10 108 267 656 1240   | 2315 4071 6071                      |
| River Rch & RM=raymondville, Reach 8  | ,260550                             |
| 9 108 270 770 1434  | 2395 4207 6284                      |
| River Rch & RM=raymondville, Reach 8<br>8 104 263 831 1497                                    | ,240200<br>2298 3869 5660           |
| River Rch & RM=raymondville, Reach 8  | ,168304                             |
| 8 146 486 1523 2762   | 4255 6845 9289                      |
|   |                                     |

| River | Rch | £. | RM=raymondville,reach | 2 |         | ,164919 |      |      |
|-------|-----|----|-----------------------|---|---------|---------|------|------|
| KIVCI | 8   |    |                       |   | 1381    | 2201    | 5773 | 8918 |
| River | Rch | &  | RM=raymondville,reach | 2 |         | ,150792 |      |      |
|       | 8   |    | 125 356 942           |   | 1824    | 2689    | 6211 | 9738 |
| River | Rch | δ. | RM=raymondville,reach | 2 |         | ,149670 |      |      |
|       | 7   |    | 104 298 787           |   | 1266    | 1811    | 4130 | 6265 |
| River | Rch | &  | RM=raymondville,reach | 3 | (south) | ,144530 |      |      |
|       | 1   |    | 9 67 200              |   | 342     | 526     | 844  | 1146 |
| River | Rch | δε | RM=raymondville,reach | 1 |         | ,109185 |      |      |
|       | 7   |    | 109 334 906           |   | 1439    | 1990    | 4256 | 6385 |
| River | Rch | &  | RM=raymondville,reach | 1 |         | ,86117  |      |      |
|       | 7   |    | 161 549 1374          |   | 2190    | 3157    | 5243 | 7330 |
| River | Rch | &  | RM=raymondville,reach | 1 |         | ,69075  |      |      |
|       | 7   |    | 185 653 1525          |   | 2334    | 3398    | 5752 | 8252 |
| River | Rch | &  | RM=raymondville,reach | 1 |         | ,54733  |      |      |
|       | 7   |    | 197 694 1596          |   | 2440    | 3551    | 6000 | 8642 |
| River | Rch | &  | RM=raymondville,reach | 1 |         | ,52753  |      |      |
|       | 18  |    |                       |   | 2026    | 3077    | 5501 | 8059 |
| River | Rch | δc | RM=raymondville,reach | 1 |         | ,34845  |      |      |
|       | 82  |    | 429 891 1714          |   | 2255    | 2856    | 4732 | 7247 |
| River | Rch | &  | RM=La Sal Vieja,Reach | 1 |         | ,15060  |      |      |
|       | 1   |    | 63 280 923            |   | 1519    | 2096    | 1546 | 1107 |

# North Main - Revised Existing

|              | Sta    | Q     | Cumulative<br>Volume | Incremental<br>Volume |
|--------------|--------|-------|----------------------|-----------------------|
| _            |        | (cfs) | (acre-ft)            | (acre-ft)             |
| iver Reach 1 |        |       |                      |                       |
|              | 188000 | 1000  | 2792.1               | 527.2                 |
|              | 188000 | 2000  | 4269.7               | 816.2                 |
|              | 188000 | 4000  | 12916.8              | 2044.3                |
|              | 188000 | 6000  | 27357.5              | 5147.3                |
|              | 188000 | 8000  | 40448.6              | 7902.7                |
|              |        | 10000 | 51121.8              | 9972.5                |
|              | 188000 |       | 74430.0              | 13505.4               |
|              | 188000 | 15000 | 74430.0              | 13303.4               |
|              | 150000 | 1000  | 2264.9               | 249.3                 |
|              | 150000 | 2000  | 3453.5               | 385.4                 |
|              | 150000 | 4000  | 10872.4              | 1661.6                |
|              | 150000 | 6000  | 22210.2              | 3718.7                |
|              | 150000 | 8000  | 32546.0              | 5233.8                |
|              | 150000 | 10000 | 41149.3              | 6730.1                |
|              | 150000 | 15000 | 60924.6              | 9844.1                |
|              | 122000 | 1000  | 2015.6               | 202.5                 |
|              | 132000 |       | 3068.1               | 312.7                 |
|              | 132000 | 2000  |                      | 870.9                 |
|              | 132000 | 4000  | 2210.3               | 2707.0                |
|              | 132000 | 6000  | 18491.5              | 3524.0                |
|              | 132000 | 8000  | 27312.1              |                       |
|              | 132000 | 10000 | 34419.3              | 4130.9                |
|              | 132000 | 15000 | 51080.5              | 5508.8                |
|              | 116000 | 1000  | 1813.1               | 71.1                  |
|              | 116000 | 2000  | 2755.3               | 113.6                 |
|              | 116000 | 4000  | 8340.0               | 428.0                 |
|              | 116000 | 6000  | 15784.6              | 987.6                 |
|              | 116000 | 8000  | 23788.2              | 1443.8                |
|              | 116000 | 10000 | 30288.4              | 1838.9                |
|              | 116000 | 15000 | 45571.7              | 2521.4                |
|              | 110000 | 1000  | 1742.0               | 325.1                 |
|              | 110000 | 1000  | 2641.7               | 531.6                 |
|              | 110000 | 2000  | 7912.0               | 2195.0                |
|              | 110000 | 4000  | 14797.0              | 4313.7                |
|              | 110000 | 6000  |                      |                       |
|              | 110000 | 8000  | 22344.4              | 5830.2                |
|              | 110000 | 10000 | 28449.5              | 7281.0                |
|              | 110000 | 15000 | 43050.4              | 10294.9               |
|              | 84000  | 1000  | 1417.0               | 208.7                 |
|              | 84000  | 2000  | 2110.1               | 319.1                 |
|              | 84000  | 4000  | 5717.1               | 1791.9                |
|              | 84000  | 6000  | 10483.3              | 3107.6                |

| 84000 | 8000         | 16514.2        | 4264.7        |
|-------|--------------|----------------|---------------|
| 84000 | 10000        | 21168.5        | 5131.9        |
| 84000 | 15000        | 32755.5        | 7190.2        |
| 04000 | 15000        | 22,750,75      |               |
| 68373 | 1000         | 1208.2         | 197.3         |
| 68373 | 2000         | 1791.1         | 298.2         |
| 68373 | 4000         | 3925.1         | 1677.6        |
| 68373 | 6000         | 7375.7         | 3541.8        |
| 68373 | 8000         | 12249.5        | 4950.7        |
| 68373 | 10000        | 16036.6        | 5984.6        |
| 68373 | 15000        | 25565.2        | 8436.5        |
| 000.0 |              |                |               |
| 52275 | 1000         | 1011.0         | 433.0         |
| 52275 | 2000         | 1492.8         | 639.6         |
| 52275 | 4000         | 2247.5         | 954.7         |
| 52275 | 6000         | 3833.9         | 1433.1        |
| 52275 | 8000         | 7298.8         | 2543.3        |
| 52275 | 10000        | 10052.1        | 3518.8        |
| 52275 | 15000        | 17128.7        | 7805.3        |
|       |              |                |               |
| 29585 | 1000         | 578.0          | 388.6         |
| 29585 | 2000         | 853.3          | 558.7         |
| 29585 | 4000         | 1292.9         | 807.9         |
| 29585 | 6000         | 2400.9         | 1617.2        |
| 29585 | 8000         | 4755.6         | 3723.9        |
| 29585 | 10000        | 6533.3         | 4996.1        |
| 29585 | 15000        | 9323.4         | 6822.4        |
|       |              |                |               |
| 10000 | 1000         | 189.4          | 130.8         |
| 10000 | 2000         | 294.6          | 184.8         |
| 10000 | 4000         | 485.0          | 301.3         |
| 10000 | 6000         | 783.7          | 542.8         |
| 10000 | 8000         | 1031.7         | 727.6         |
| 10000 | 10000        | 1537.2         | 1178.3        |
| 10000 | 15000        | 2501.0         | 2020.7        |
|       |              | 50.6           | 50.6          |
| 2000  | 1000         | 58.6           | 58.6<br>109.8 |
| 2000  | 2000         | 109.8          | 183.7         |
| 2000  | 4000         | 183.7          | 240.9         |
| 2000  | 6000         | 240.9          | 304.1         |
| 2000  | 8000         | 304.1<br>358.8 | 358.8         |
| 2000  | 10000        | 480.3          | 480.3         |
| 2000  | 15000        | 460.3          | 400.5         |
|       | 1000         |                |               |
| 0     | 1000         |                |               |
| 0     | 2000<br>4000 |                |               |
| 0     | 4000<br>6000 |                |               |
| 0     | 8000         |                |               |
| 0     | 10000        |                |               |
| 0     | 15000        |                |               |
| 0     | 13000        |                |               |

# Raymondville - Revised Existing

|              | Sta               | Q     | Cumulative<br>Volume | Incremental<br>Volume |
|--------------|-------------------|-------|----------------------|-----------------------|
|              | <del></del>       | (cfs) | (acre-ft)            | (acre-ft)             |
| Raymondville | Reaches 8, 2, and | 1     |                      |                       |
|              | 231612            | 1000  | 947.91               | 880.95                |
|              | 231612            | 2000  | 4052.97              | 2991.98               |
|              | 231612            | 3000  | 7268.9               | 5186.12               |
|              | 231612            | 4000  | 9067.88              | 6885.54               |
|              | 231612            | 5000  | 11140.54             | 8871.5                |
|              | 231612            | 7500  | 14717.89             | 12258.43              |
|              | 231612            | 10000 | 18591.36             | 15897                 |
|              | 169710            | 1000  | 66.96                |                       |
|              | 169710            | 2000  | 1060.99              |                       |
|              | 169710            | 3000  | 2082.78              |                       |
|              | 169710            | 4000  | 2182.34              |                       |
|              | 169710            | 5000  | 2269.04              |                       |
|              | 169710            | 7500  | 2459.46              |                       |
|              | 169710            | 10000 | 2694.36              |                       |
|              | 168304            | 1000  | 52.08                | 31.13                 |
|              | 168304            | 2000  | 853.47               | 583.44                |
|              | 168304            | 3000  | 1642.01              | 1135                  |
|              | 168304            | 4000  | 1720.24              | 1185.65               |
|              | 168304            | 5000  | 1787.49              | 1228.68               |
|              | 168304            | 7500  | 1931.99              | 1320.84               |
|              | 168304            | 10000 | 2109.54              | 1435.91               |
|              | 166078            | 1000  | 20.95                |                       |
|              | 166078            | 2000  | 270.03               |                       |
|              | 166078            | 3000  | 507.01               |                       |
|              | 166078            | 4000  | 534.59               |                       |
|              | 166078            | 5000  | 558.81               |                       |
|              | 166078            | 7500  | 611.15               |                       |
|              | 166078            | 10000 | 673.63               |                       |
|              | 164919            | 1000  | 1566.71              | 196.88                |
|              | 164919            | 2000  | 5304.88              | 297.78                |
|              | 164919            | 3000  | 8689.46              | 546.45                |
|              | 164919            | 4000  | 11982.84             | 982.63                |
|              | 164919            | 5000  | 16006.84             | 1367.29               |
|              | 164919            | 7500  | 24433.7              | 2212.32               |
|              | 164919            | 10000 | 28865.88             | 2871.43               |
|              | 150792            | 1000  | 1369.83              | 1350.77               |
|              | 150792            | 2000  | 5007.1               | 4980.13               |
|              | 130172            | 2000  |                      |                       |
|              | 150792            | 3000  | 8143.01              | 8032.34               |

| 150792   | 5000                                    | 14639.55   | 14308.23 |
|----------|---|------------|----------|
| 150792   | 7500                                    | 22221.38   | 21706.77 |
| 150792   | 10000                                   | 25994.45   | 25407.26 |
|          |   |            |          |
| 149670   | 1000                                    | 1354.25    |          |
| 149670   | 2000                                    | 4988.21    |          |
| 149670   | 3000                                    | 8121.95    |          |
| 149670   | 4000                                    | 10977.07   |          |
| 149670   | 5000                                    | 14591.18   |          |
| 149670   | 7500                                    | 22091.05   |          |
| 149670   | 10000                                   | 25818.44   |          |
|          |   |            |          |
| 110608   | 1000                                    | 19.06      | •        |
| 110608   | 2000                                    | 26.97      |          |
| 110608   | 3000                                    | 110.67     |          |
| 110608   | 4000                                    | 221.81     |          |
| 110608   | 5000                                    | 331.32     |          |
| 110608   | 7500                                    | 514.61     |          |
| 110608   | 10000                                   | 587.19     |          |
| 110000   | 10000                                   | 307.12     |          |
| 109185   | 1000                                    | 2593.63    | 312.83   |
| 109185   | 2000                                    | 9040.96    | 999.33   |
| 109185   | 3000                                    | 13801.57   | 1918.42  |
| 109185   | 4000                                    | 17796.32   | 2687.59  |
| 109185   | 5000                                    | 20862.55   | 3301.82  |
| 109185   | 7500                                    | 27918.58   | 4973.7   |
| 109185   | 10000                                   | 33726.79   | 6268.16  |
| 10,100   | *************************************** | 33720.77   | 0200.10  |
| 86117    | 1000                                    | 2280.8     | 449.95   |
| 86117    | 2000                                    | 8041.63    | 1513.48  |
| 86117    | 3000                                    | 11883.15   | 2080.21  |
| 86117    | 4000                                    | 15108.73   | 2620.81  |
| 86117    | 5000                                    | 17560.73   | 3076.17  |
| 86117    | 7500                                    | 22944.88   | 4216.6   |
| 86117    | 10000                                   | 27458.63   | 5147.07  |
|          | -0440                                   | 27 12 3133 | 0177.07  |
| 69075    | 1000                                    | 1830.85    | 208.42   |
| 69075    | 2000                                    | 6528.15    | 1163.8   |
| 69075    | 3000                                    | 9802.94    | 1981.25  |
| 69075    | 4000                                    | 12487.92   | 2627.06  |
| 69075    | 5000                                    | 14484.56   | 3127.48  |
| 69075    | 7500                                    | 18728.28   | 4076.54  |
| 69075    | 10000                                   | 22311.56   | 4891.58  |
| 0, 0.0   | 10000                                   | 22011.00   | .021.00  |
| 54733    | 1000                                    | 1622.43    | 555.09   |
| 54733    | 2000                                    | 5364.35    | 2027.13  |
| 54733    | 3000                                    | 7821.69    | 2912.69  |
| 54733    | 4000                                    | 9860.86    | 3589.64  |
| 54733    | 5000                                    | 11357.08   | 4021.27  |
| 54733    | 7500                                    | 14651.74   | 5120.12  |
| 54733    | 10000                                   | 17419.98   | 6031.23  |
| J-11 J J | 10000                                   | 11-71/1/0  | 0001.20  |

| 34845 | 1000  | 1067.34  | 1067.34  |
|-------|-------|----------|----------|
| 34845 | 2000  | 3337.22  | 3337.22  |
| 34845 | 3000  | 4909     | 4909     |
| 34845 | 4000  | 6271.22  | 6271.22  |
| 34845 | 5000  | 7335.81  | 7335.81  |
| 34845 | 7500  | 9531.62  | 9531.62  |
| 34845 | 10000 | 11388.75 | 11388.75 |
|       |       |          |          |
| 0     | 1000  |          |          |
| 0     | 2000  |          |          |
| 0     | 3000  |          |          |
| 0     | 4000  |          |          |
| 0     | 5000  |          |          |
| 0     | 7500  |          |          |
| 0     | 10000 |          |          |
|       |       |          |          |

# Raymondville - 10% Diversion

|               | Sta    | Q<br>(cfs) | Cumulative<br>Volume<br>(acre-ft) | Incremental<br>Volume<br>(acre-ft) |
|---------------|--------|------------|-----------------------------------|------------------------------------|
| River Reach 8 |        |            |                                   |                                    |
|               | 206200 | 100        | 242.0                             | <b>60.5</b>                        |
|               | 296300 |            | 243.9                             | 60.5                               |
|               | 296300 | 300        | 868.0                             | 466.1                              |
|               | 296300 | 500        | 1734.2                            | 1122.7                             |
|               | 296300 | 1000       | 4484.8                            | 3117.2                             |
|               | 296300 | 3000       | 13902.7                           | 7667.6                             |
|               | 296300 | 7500       | 32626.2                           | 13792.6                            |
|               | 296300 | 10000      | 41547.1                           | 17233.3                            |
|               | 296300 | 15000      | 55999.2                           | 23413.1                            |
|               | 260550 | 100        | 183.4                             | 39.7                               |
|               | 260550 | 300        | 401.9                             | 86.8                               |
|               | 260550 | 500        | 611.5                             | 124.7                              |
|               | 260550 | 1000       | 1367.6                            | 263.5                              |
|               | 260550 | 3000       | 6235.0                            | 1229.1                             |
|               | 260550 | 7500       | 18833.6                           | 3325.6                             |
|               | 260550 | 10000      | 24313.8                           | 3788.3                             |
|               | 260550 | 15000      | 32586.2                           | 4842.5                             |
|               | 240200 | 100        | 143.7                             | 133.1                              |
|               | 240200 | 300        | 315.0                             | 292.2                              |
|               | 240200 | 500        | 486.9                             | 454.5                              |
|               | 240200 | 1000       | 1104.1                            | 1053.6                             |
|               | 240200 | 3000       | 5005.9                            | 4913.6                             |
|               | 240200 | 7500       | 15508.0                           | 13784.2                            |
|               | 240200 | 10000      | 20525.5                           | 18273.0                            |
|               | 240200 | 15000      | 27743.6                           | 24614.9                            |
|               | 168304 | 100        | 10.6                              | 6.5                                |
|               | 168304 | 300        | 22.8                              | 14.1                               |
|               | 168304 | 500        | 32.4                              | 20.1                               |
|               | 168304 | 1000       | 50.5                              | 31.1                               |
|               | 168304 | 3000       | 92.3                              | 55.7                               |
|               | 168304 | 7500       | 1723.8                            | 1179.8                             |
|               | 168304 | 10000      | 2252.5                            | 1531.0                             |
|               | 168304 | 15000      | 3128.7                            | 2099.8                             |
|               | 166079 | 100        | A 1                               |                                    |
|               | 166078 | 100        | 4.1                               |                                    |
|               | 166078 | 300        | 8.7                               |                                    |
|               | 166078 | 500        | 12.3                              |                                    |
|               | 166078 | 1000       | 19.3                              |                                    |
|               | 166078 | 3000       | 36.6                              |                                    |
|               | 166078 | 7500       | 544.0                             |                                    |
|               | 166078 | 10000      | 721.5                             |                                    |
|               | 166078 | 15000      | 1028.9                            |                                    |

# Raymondville - 25.% Diversion

|               | Sta    | Q<br>(cfs) | Cumulative<br>Volume<br>(acre-ft) | Incremental<br>Volume<br>(acre-ft) |
|---------------|--------|------------|-----------------------------------|------------------------------------|
| River Reach 8 |        |            |                                   |                                    |
|               | 296300 | 100        | 249.2                             | 64.7                               |
|               | 296300 | 300        | 548.7                             | 144.6                              |
|               | 296300 | 500        | 848.4                             | 233.2                              |
|               | 296300 | 1000       | 2168.0                            | 852.2                              |
|               | 296300 | 3000       | 10392.9                           | 4420.8                             |
|               | 296300 | 7500       | 28113.6                           | 9869.0                             |
|               |        |            | 36782.6                           |                                    |
|               | 296300 | 10000      |                                   | 13022.8                            |
|               | 296300 | 15000      | 50234.4                           | 18148.2                            |
|               | 260550 | 100        | 184.5                             | 40.4                               |
|               | 260550 | 300        | 404.2                             | 87.1                               |
|               | 260550 | 500        | 615.2                             | 124.9                              |
|               | 260550 | 1000       | 1315.8                            | 203.8                              |
|               | 260550 | 3000       | 5972.1                            | 953.8                              |
|               | 260550 | 7500       | 18244.7                           | 2713.0                             |
|               | 260550 | 10000      | 23759.8                           | 3219.1                             |
|               | 260550 | 15000      | 32086.1                           | 4328.1                             |
|               | 240200 | 100        | 144.1                             | 133.5                              |
|               | 240200 | 300        | 317.1                             | 294.2                              |
|               |        | 500        | 490.3                             | 457.9                              |
|               | 240200 | 1000       | 1112.1                            | 1061.6                             |
|               | 240200 |            | 5018.3                            | 4926.0                             |
|               | 240200 | 3000       | 15531.7                           | 13807.9                            |
|               | 240200 | 7500       |                                   | 18288.2                            |
|               | 240200 | 10000      | 20540.7                           |                                    |
|               | 240200 | 15000      | 27758.0                           | 24629.3                            |
|               | 168304 | 100        | 10.6                              | 6.5                                |
|               | 168304 | 300        | 22.8                              | 14.1                               |
|               | 168304 | 500        | 32.4                              | 20.1                               |
|               | 168304 | 1000       | 50.5                              | 31.1                               |
|               | 168304 | 3000       | 92.3                              | 55.7                               |
|               | 168304 | 7500       | 1723.8                            | 1179.8                             |
|               | 168304 | 10000      | 2252.5                            | 1531.0                             |
|               | 168304 | 15000      | 3128.7                            | 2099.8                             |
|               | 166078 | 100        | 4.1                               |                                    |
|               | 166078 | 300        | 8.7                               |                                    |
|               | 166078 | 500        | 12.3                              |                                    |
|               | 166078 | 1000       | 19.3                              |                                    |
|               | 166078 | 3000       | 36.6                              |                                    |
|               | 166078 | 7500       | 544.0                             |                                    |
|               | 166078 | 10000      | 721.5                             |                                    |
|               | 166078 | 15000      | 1028.9                            |                                    |
|               | 100070 |            |                                   |                                    |

# Raymondville - 25.% Diversion

| _             | Sta    | Q<br>(cfs) | Cumulative<br>Volume<br>(acre-ft) | Incremental<br>Volume<br>(acre-ft) |
|---------------|--------|------------|-----------------------------------|------------------------------------|
| River Reach 8 |        |            |                                   |                                    |
|               | 296300 | 100        | 249.65                            | 61.09                              |
|               | 296300 | 300        | 557.38                            | 135.31                             |
|               | 296300 | 500        | 838.08                            | 196.91                             |
|               | 296300 | 1000       | 1694.28                           | 329.32                             |
|               | 296300 | 3000       | 6929.67                           | 1303.22                            |
|               | 296300 | 7500       | 22717.67                          | 5462.32                            |
|               | 296300 | 10000      | 30392.91                          | 7476.87                            |
|               | 296300 | 15000      | 43370.2                           | 12322.6                            |
|               | 260550 | 100        | 188.56                            | 36.12                              |
|               | 260550 | 300        | 422.07                            | 82.09                              |
|               | 260550 | 500        | 641.17                            | 122.03                             |
|               | 260550 | 1000       | 1364.96                           | 206.52                             |
|               | 260550 | 3000       | 5626.45                           | 546.55                             |
|               | 260550 | 7500       | 17255.35                          | 1642.38                            |
|               | 260550 | 10000      | 22916.04                          | 2304.29                            |
| ·             | 260550 | 15000      | 31047.6                           | 3221.39                            |
|               | 240200 | 100        | 152.44                            | 141.85                             |
|               | 240200 | 300        | 339.98                            | 317.14                             |
|               | 240200 | 500        | 519.14                            | 486.74                             |
|               | 240200 | 1000       | 1158.44                           | 1107.98                            |
|               | 240200 | 3000       | 5079.9                            | 4987.59                            |
|               | 240200 | 7500       | 15612.97                          | 13889.19                           |
|               | 240200 | 10000      | 20611.75                          | 18359.23                           |
|               | 240200 | 15000      | 27826.21                          | 24697.5                            |
|               | 168304 | 100        | 10.59                             | 6.52                               |
|               | 168304 | 300        | 22.84                             | 14.14                              |
|               | 168304 | 500        | 32.4                              | 20.07                              |
|               | 168304 | 1000       | 50.46                             | 31.13                              |
|               | 168304 | 3000       | 92.31                             | 55.71                              |
|               | 168304 | 7500       | 1723.78                           | 1179.82                            |
|               | 168304 | 10000      | 2252.52                           | 1531.01                            |
|               | 168304 | 15000      | 3128.71                           | 2099.79                            |
|               | 166078 | 100        | 4.07                              |                                    |
|               | 166078 | 300        | 8.7                               |                                    |
|               | 166078 | 500        | 12.33                             |                                    |
|               | 166078 | 1000       | 19.33                             |                                    |
|               | 166078 | 3000       | 36.6                              |                                    |
|               | 166078 | 7500       | 543.96                            |                                    |
|               | 166078 | 10000      | 721.51                            |                                    |
|               | 166078 | 15000      | 1028.92                           |                                    |

| Structures Raymondville   Structures   Str   | Struc Na | ime Cat_name   Stream_name   Occ   | Name       | Station Bank | Struc Vol I | 1E Ctana Count | 04               |
|--|----------|------------------------------------|------------|--------------|-------------|----------------|------------------|
| Structures Raymondvilled 128 IWR   15   109085   Right   \$74.50    38   35   2 structures   3   3   3   3   3   3   3   3   2 structures   4   3   3   3   3   3   3   3   3   3  | 1        |                                    |            |              | \$101.20    |                |                  |
| Structures Raymondvilled   WR   15   | 2        |                                    |            |              |             |                |                  |
| Structures Raymondville3   IWR   IS  |          |                                    |            |              |             |                |                  |
| Structures Raymondvilled   IWR   S   121029   Left   \$47.10   34   33   1 structures   Structures Raymondvilled   IWR   S   121029   Left   \$47.10   34   33   1 structures   Structures Raymondvilled   IWR   S   132244   Right   \$10.01   35   341   structure   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$29.27   36   35   1 structures   \$12024   Right   \$20.27   36   35   1 structures   \$12024   Right   \$20.27   36   36   35   1 structures   \$12024   Right   \$20.27   36   36   36   1 structures   \$12024   Right   \$20.27   36   36   36   36   36   36   36   3   |          |                                    |            |              |             |                |                  |
| Structures Raymondvilled   IWR   S   132244   Right   \$10.01   35   341   structures   Raymondvilled   IWR   S   133745   Right   \$29.27   36   351   structures   Raymondvilled   IWR   S   133745   Right   \$29.27   36   351   structures   Raymondvilled   IWR   S   133745   Right   \$29.27   36   351   structures   Raymondvilled   IWR   S   133745   Right   \$29.27   36   351   structures   Raymondvilled   IWR   S   135048   Right   \$29.27   36   355   structures   Raymondvilled   IWR   S   135048   Right   \$29.27   36   351   structures   Raymondvilled   IWR   S   135048   Right   \$29.27   36   352   structures   Raymondvilled   IWR   S   78117   Right   \$0.01   18   171   structures   Raymondvilled   IWR   S   90057   Right   \$0.00   31   301   structures   Raymondvilled   IWR   S   90057   Right   \$0.00   31   301   structures   Raymondvilled   IWR   S   90057   Right   \$0.00   31   301   structures   Raymondvilled   IWR   S   90057   Right   \$0.27   31   301   structures   Raymondvilled   IWR   S   173765   Right   \$481.54   16   152   structures   Raymondvilled   IWR   S   173765   Right   \$481.54   16   152   structures   Raymondvilled   IWR   S   173765   Right   \$481.54   16   152   structures   Raymondvilled   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   152   structures   IWR   S   173765   Right   \$481.54   16   16   structures   IWR   S   173765   Right   \$481.54   16   16   structures   IWR   S   173765   Right   \$481.54   16   16   structures   IWR   S   173765   Right   S   173765   Right   S   173765   Right   S   173765   |          |                                    |            |              |             |                | 37 17 structures |
| Structures   Raymondville  Structure  Raymon   |          |                                    |            |              |             | 34             | 33 1 structure   |
|  |          |                                    |            |              | \$10.01     | 35             | 34 1 structure   |
|  | L        |                                    |            |              | \$29.27     | 36             |                  |
| Structures Raymondville128   IWR   15   135048   Right   \$35.48   36   35/2 structures   Structures   Raymondville128   IWR   15   61/180   Left   \$0.30   19   18   15   Istructures   Istructures   Raymondville128   IWR   15   90057   Right   \$0.10   18   77   Istructures   Istructures   Raymondville128   IWR   15   90057   Right   \$0.27   31   301   structures   Istructures   Raymondville128   IWR   15   90057   Right   \$0.27   31   301   structures   Istructures   Raymondville128   IWR   15   34845   Right   \$481.54   16   15/2 structures   Istructures   Raymondville128   IWR   15   34845   Right   \$481.54   16   15/2 structures   Istructures   Raymondville128   IWR   15   17/174   Left   \$7.09   44   43   1 structure   Istructures   Raymondville128   IWR   15   17/174   Left   \$7.09   44   43   1 structures   Istructures   Raymondville128   IWR   15   156106   Left   \$107.49   41   40   4 structures   Istructures   LaSalvieja   IWR   15   9650   Left   \$88.42   41   40   1 structures   Istructures   Raymondville128   IWR   15   155106   Left   \$7.94   38   37   1 structures   Istructures   Raymondville128   IWR   15   155106   Left   \$7.94   38   37   1 structures   Istructures   Raymondville128   IWR   15   177727   Right   \$212.58   51   50   4 structures   20   Structures   Raymondville128   IWR   15   187150   Right   \$44.64   51   50   4 structures   20   Structures   Raymondville128   IWR   15   187150   Right   \$44.65   51   50   4 structures   22   Structures   Raymondville128   IWR   15   189710   Right   \$47.14   43   42   2 structures   22   Structures   Raymondville128   IWR   15   189710   Right   \$47.14   43   42   2 structures   23   Structures   Raymondville128   IWR   15   246200   Left   \$1.72   77   76   1 structures   25   Structures   Raymondville128   IWR   15   246200   Right   \$37.30   66   65   1 structures   31.1   Structures   NorthMain134   IWR   15   220209   Right   \$34.39   67   66   13 structures   31.2   Structures   NorthMain134   IWR   15   220295   Right   \$16.60   77  |          |                                    |            | 133745 Right | \$29.27     | 36             |                  |
| Structures Raymondville128 IWR 15  |          |                                    |            | 135048 Right | \$35.48     | 36             |                  |
| 10   |          |                                    |            | 61180 Left   |             |                |                  |
| Structures   Raymondville   28   IWR   15   90057   Right   \$0.20   31   30   1 structures   Raymondville   28   IWR   15   90057   Right   \$0.27   31   30   1 structures   13   Structures   Raymondville   28   IWR   15   34845   Right   \$481.54   16   15   2 structures   15   Structures   Raymondville   28   IWR   15   173765   Right   \$481.54   16   15   2 structures   15   Structures   Raymondville   28   IWR   15   173765   Right   \$431.45   46   45   62 structures   15   Structures   Raymondville   28   IWR   15   166128   Left   \$107.49   41   40   4 structures   16   Structures   Raymondville   28   IWR   15   166128   Left   \$107.49   41   40   4 structures   18   Structures   Raymondville   28   IWR   15   155106   Left   \$884.2   41   40   1 structures   18   Structures   Raymondville   28   IWR   15   155106   Left   \$7.94   38   371   structures   19   Structures   Raymondville   28   IWR   15   155106   Left   \$7.94   38   371   structures   20   Structures   Raymondville   28   IWR   15   167727   Right   \$3212.58   51   50   4 structures   20   Structures   Raymondville   28   IWR   15   169710   Right   \$4.46   51   50   1 structure   22   Structures   Raymondville   28   IWR   15   169710   Right   \$4.46   51   50   1 structure   23   Structures   Raymondville   28   IWR   15   169710   Right   \$4.47   77   46   45   2 structures   25   Structures   Raymondville   28   IWR   15   169710   Right   \$4.197   46   45   2 structures   25   Structures   Raymondville   28   IWR   15   246200   Left   \$1.72   77   76   1 structure   27   Structures   Roymondville   IWR   15   22000   Right   \$58.3   66   65   1 structures   31.1   Structures   NorthMain   34   IWR   15   22000   Right   \$58.3   66   66   1 structures   31.1   Structures   NorthMain   34   IWR   15   220095   Right   \$16.04   77   70   14 structures   33.1   Structures   NorthMain   34   IWR   15   220295   Right   \$16.04   77   70   14 structures   33.2   Structures   NorthMain   34   IWR   15   220295   Right   \$16.04   77   77   76  |          | Structures Raymondville128 IWF     | R_1S       |              |             |                |                  |
| Structures   Raymondville   128   IWR   15   34845   Right   \$481.54   16   15   2 structures   Raymondville   128   IWR   15   34845   Right   \$481.54   16   15   2 structures   Raymondville   128   IWR   15   173765   Right   \$481.54   16   16   2 structures   Raymondville   128   IWR   15   173765   Right   \$481.54   16   16   2 structures   Raymondville   128   IWR   15   171741   Left   \$7.09   44   43   1 structure   16   Structures   Raymondville   128   IWR   15   166128   Left   \$107.49   44   40   4 structures   17   Structures   LaSalVieja   IWR   15   9650   Left   \$88.42   41   40   1 structures   18   Structures   Raymondville   128   IWR   15   155106   Left   \$7.94   38   37   1 structures   19   Structures   Raymondville   128   IWR   15   155106   Left   \$7.94   38   37   1 structures   19   Structures   Raymondville   128   IWR   15   177727   Right   \$212.58   51   50   4 structures   19   Structures   Raymondville   128   IWR   15   187150   Right   \$38.55   47   46   1 structures   18   18   18   18   18   18   18   1   |          | Structures   Raymondville128   IWF | R 1S       |              |             |                |                  |
| Structures   Raymondville   28  IWR   15   34845   Right   \$481.54   16   15   2 structures   Raymondville   28   IWR   15   173765   Right   \$831.45   46   45   62 structures   15   5   5   5   5   5   5   5   5   | 12       |                                    |            |              |             |                |                  |
| Structures Raymondville128  IWR   S  | 13       | Structures Raymondville128 IWF     | R 1S       |              |             |                |                  |
| Structures   Raymondville  128   IWR   15  | 14       |                                    |            |              |             |                |                  |
| 16   | 15       | Structures   Raymondville128 IWF   | 15         |              |             |                |                  |
| 17   |          |                                    |            |              |             |                |                  |
| 18   |          | Structures II a SalVieia IIWE      |            |              |             |                |                  |
| Structures Raymondville128   WR   1S   177727   Right   \$212.58   51   50   4 structures  |          |                                    |            |              |             |                | 40 1 structure   |
| Structures   Raymondville  128   IWR   15   187150   Right   \$38.55   47   46   1 structure   187150   Right   \$38.55   47   46   1 structure   187150   Right   \$38.55   47   46   45   187150   Right   \$38.55   47   46   45   187150   Right   \$38.55   47   46   45   187150   Right   \$4.46   51   50   1 structure   22   Structures   Raymondville  128   IWR   15   169710   Right   \$47.14   43   42   2 structures   23   Structures   Raymondville  128   IWR   15   169710   Right   \$41.97   46   45   2 structures   25   Structures   Raymondville  128   IWR   15   246200   Left   \$11.72   77   76   1 structure   27   Structures   Raymondville  128   IWR   15   246200   Right   \$7.83   66   65   51   structures   31.1   Structures   NorthMain134   IWR   15   222000   Right   \$96.48   68   67   4 structures   31.2   Structures   NorthMain134   IWR   15   222000   Right   \$383.93   71   70   18 structures   32.1   Structures   NorthMain134   IWR   15   2220295   Right   \$234.39   67   66   13 structures   32.2   Structures   NorthMain134   IWR   15   220295   Right   \$234.39   70   69   14 structures   33.3   Structures   NorthMain134   IWR   15   220295   Right   \$116.78   70   69   6 structures   33.3   Structures   NorthMain134   IWR   15   220295   Right   \$116.78   70   69   6 structures   33.3   Structures   NorthMain134   IWR   15   220295   Right   \$116.78   70   69   6 structures   33.4   Structures   NorthMain134   IWR   15   220295   Right   \$116.78   70   69   6 structures   34.1   Structures   NorthMain134   IWR   15   220295   Right   \$16.04   71   70   14 structures   34.1   Structures   NorthMain134   IWR   15   220295   Right   \$16.04   71   70   14 structures   37.2   Structures   NorthMain134   IWR   15   220295   Right   \$156.04   71   70   14 structures   37.1   Structures   NorthMain134   IWR   15   220295   Right   \$37.87   71   70   15   structure   37.1   Structures   NorthMain28D   IWR   15   232833   Right   \$95.38   79   78   8 structures   37.2   Structures   NorthMain28D   IWR   15   2328  |          |                                    |            |              |             |                |                  |
| 21   Structures   Raymondville128   IWR   1S   193324   Right   \$4.46   51   501   structure   22   Structures   Raymondville128   IWR   1S   169710   Right   \$4.47.14   43   42   2 structures   23   Structures   Raymondville128   IWR   1S   169710   Right   \$41.97   46   45   2 structures   25   Structures   Raymondville128   IWR   1S   246200   Left   \$1.72   77   76   1 structure   27   Structures   Raymondville128   IWR   1S   246400   Right   \$7.83   66   65   1 structure   27   Structures   Raymondville128   IWR   1S   222000   Right   \$7.83   66   66   65   1 structure   31.1   Structures   NorthMain134   IWR   1S   222000   Right   \$385.93   71   70   18 structures   31.1   Structures   NorthMain134   IWR   1S   222000   Right   \$385.93   71   70   18 structures   32.1   Structures   NorthMain134   IWR   1S   220295   Right   \$234.39   67   66   13 structures   32.2   Structures   NorthMain134   IWR   1S   220295   Right   \$234.39   67   66   13 structures   33.2   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   70   69   68   structures   33.2   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   70   69   68   structures   33.3   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   75   74   6 structures   34.1   Structures   NorthMain134   IWR   1S   220295   Right   \$155.04   71   70   14 structures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$155.04   71   70   14 structures   35   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   36   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   37.1   Structures   NorthMain134   IWR   1S   224948   Left   \$37.87   71   70   14 structures   37.1   Structures   NorthMain134   IWR   1S   224948   Left   \$37.87   71   70   14 structures   37.2   Structures   NorthMain28D   IWR   1S   23098   Right   \$12.46   70   66   5133   structures   37.1   Structures   NorthMain28D   IWR   1S   73000   Left   \$431.10   76   |          |                                    |            |              |             | 51             | 50 4 structures  |
| Structures   Raymondville   128   IWR   15   169710   Right   169714   143   42   2 structures   23   Structures   Raymondville   128   IWR   15   169710   Right   169710   R   |          |                                    |            |              |             | 47             | 46 1 structure   |
| Structures   Raymondville   128   IWR   IS   169710   Right   169710   R   |          | Structures Raymondville128 IWF     | ₹_1S       |              | \$4.46      | 51             | 50 1 structure   |
| Structures   Raymondville   128   IWR   15   246200   Left   \$1.72   77   76   1 structures   11   Structures   Raymondville   128   IWR   15   246200   Left   \$1.72   77   76   1 structure   13   1.1   Structures   Raymondville   128   IWR   15   245400   Right   \$7.83   66   65   1 structures   13   1.1   Structures   NorthMain134   IWR   15   222000   Right   \$96.48   68   66   65   1 structures   13   1.2   Structures   NorthMain134   IWR   15   222000   Right   \$385.93   71   70   18 structures   13   1.2   Structures   NorthMain134   IWR   15   220295   Right   \$234.39   67   66   13 structures   13   1.3   Structures   NorthMain134   IWR   15   220295   Right   \$234.39   70   69   14 structures   13   1.3   Structures   NorthMain134   IWR   15   220295   Right   \$116.78   70   69   6 structures   13   1.3   Structures   NorthMain134   IWR   15   220295   Right   \$116.78   75   74   6 structures   13   3.3   Structures   NorthMain134   IWR   15   220295   Right   \$100.10   81   80   6 structures   34.1   Structures   NorthMain134   IWR   15   220295   Right   \$156.04   71   70   14 structures   34.2   Structures   NorthMain134   IWR   15   220295   Right   \$156.04   71   70   14 structures   34.2   Structures   NorthMain134   IWR   15   220295   Right   \$156.04   71   70   14 structures   35   Structures   NorthMain134   IWR   15   220295   Right   \$37.60   77   76   14 structures   37.2   Structures   NorthMain134   IWR   15   224978   Left   \$37.87   71   70   14 structures   37.2   Structures   NorthMain134   IWR   15   224978   Left   \$37.87   71   70   14 structures   37.2   Structures   NorthMain134   IWR   15   232833   Right   \$95.38   75   74   75 ructures   37.2   Structures   NorthMain134   IWR   15   232833   Right   \$95.38   75   74   75 ructures   37.2   Structures   NorthMain2BD   IWR   15   230198   Right   \$12.46   70   69   1 structure   37.2   Structures   NorthMain2BD   IWR   15   73000   Left   \$481.10   76   75   11 structures   37.2   Structures   NorthMain2BD   IWR   15   73000   |          |                                    |            |              | \$47.14     | 43             | 42 2 structures  |
| Structures   Raymondville   128   WR   15   245400   Right   \$7.83   66   65   1 structure  |          |                                    |            | 169710 Right | \$41.97     | 46             |                  |
| Structures   NorthMain134   WR 15   222000   Right   \$96.48   68   65   1 structures   Structures   NorthMain134   WR 15   222000   Right   \$96.48   68   67   4 structures   31.1   Structures   NorthMain134   WR 15   222000   Right   \$385.93   71   70   18 structures   32.1   Structures   NorthMain134   WR 15   220295   Right   \$234.39   67   66   13 structures   32.2   Structures   NorthMain134   WR 15   220295   Right   \$234.39   70   69   14 structures   33.1   Structures   NorthMain134   WR 15   220295   Right   \$116.78   70   69   6 structures   33.2   Structures   NorthMain134   WR 15   220295   Right   \$116.78   70   69   6 structures   33.3   Structures   NorthMain134   WR 15   220295   Right   \$116.78   75   74   6 structures   33.3   Structures   NorthMain134   WR 15   220295   Right   \$100.10   81   80   6 structures   34.1   Structures   NorthMain134   WR 15   220295   Right   \$156.04   71   70   14 structures   34.2   Structures   NorthMain134   WR 15   220295   Right   \$156.04   77   76   14 structures   34.2   Structures   NorthMain134   WR 15   220295   Right   \$156.04   77   76   14 structures   35   Structures   NorthMain134   WR 15   220295   Right   \$156.04   77   76   14 structures   36   Structures   NorthMain134   WR 15   224978   Left   \$37.87   71   70   1 structure   37.1   Structures   NorthMain134   WR 15   224978   Left   \$37.87   71   70   1 structures   37.2   Structures   NorthMain134   WR 15   232833   Right   \$95.38   75   74   75   75   76   76   76   77   76   77   77   |          |                                    |            | 246200 Left  | \$1.72      | 77             |                  |
| Structures   NorthMain134   IWR   1S   22000   Right   \$96.48   68   67   4 structures   Structures   NorthMain134   IWR   1S   22000   Right   \$385.93   71   70   18 structures   Structures   NorthMain134   IWR   1S   220295   Right   \$234.39   67   66   13 structures   Structures   NorthMain134   IWR   1S   220295   Right   \$234.39   70   69   14 structures   Structures   NorthMain134   IWR   1S   220295   Right   \$234.39   70   69   14 structures   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   70   69   6 structures   NorthMain134   IWR   1S   220295   Right   \$116.78   75   74   6 structures   NorthMain134   IWR   1S   220295   Right   \$110.10   81   80   6 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   71   70   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   71   70   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   NorthMain134   IWR   1S   223833   Right   \$156.04   77   70   1 structures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7 structures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7 structures   NorthMain28D   IWR   1S   232833   Right   \$95.38   75   74   7 structures   NorthMain28D   IWR   1S   230198   Right   \$95.38   79   78   8 structures   NorthMain28D   IWR   1S   73000   Left   \$481.10   76   77   11 structures   NorthMain28D   IWR   1S   73000   Left   \$481.10   76   77   11 structures   NorthMain28D   IWR   1S   73000   Left   \$481.10   76   77   11 structures   NorthMain28D   IWR   1S   73000   Right   \$39.97   76   75   2 structures   NorthMain28D   I  |          |                                    | <u>1</u> S | 245400 Right | \$7.83      | 66             |                  |
| Structures   NorthMain134   IWR   1S   220200   Right   \$385.93   71   70   18 structures   RorthMain134   IWR   1S   220295   Right   \$234.39   67   66   13 structures   RorthMain134   IWR   1S   220295   Right   \$234.39   70   69   14 structures   RorthMain134   IWR   1S   220295   Right   \$116.78   70   69   65   Right  |          | Structures   NorthMain134   IWF    | 15         | 222000 Right |             |                |                  |
| 32.1 Structures NorthMain134 IWR 1S 220295 Right \$234.39 67 66 3 structures 33.2 Structures NorthMain134 IWR 1S 220295 Right \$234.39 70 69 14 structures 33.1 Structures NorthMain134 IWR 1S 220295 Right \$116.78 70 69 6 structures 33.2 Structures NorthMain134 IWR 1S 220295 Right \$116.78 75 74 6 structures 33.3 Structures NorthMain134 IWR 1S 220295 Right \$116.78 75 74 6 structures 33.3 Structures NorthMain134 IWR 1S 220295 Right \$100.10 81 80 6 structures 34.1 Structures NorthMain134 IWR 1S 220295 Right \$156.04 71 70 14 structures 34.2 Structures NorthMain134 IWR 1S 220295 Right \$156.04 77 76 14 structures 34.2 Structures NorthMain134 IWR 1S 220295 Right \$156.04 77 76 14 structures 35 Structures NorthMain134 IWR 1S 224978 Left \$37.87 71 70 14 structures 36 Structures NorthMain134 IWR 1S 224978 Left \$37.87 71 70 14 structures 37.1 Structures NorthMain134 IWR 1S 227602 Right \$433.40 66 65 33 structures 37.2 Structures NorthMain134 IWR 1S 232833 Right \$95.38 75 74 7 structures 37.2 Structures NorthMain134 IWR 1S 232833 Right \$95.38 75 74 7 structures 38 Structures NorthMain134 IWR 1S 232833 Right \$95.38 75 74 7 structures 38 Structures NorthMain28D IWR 1S 230198 Right \$12.46 70 69 1 structures 39 Structures NorthMain28D IWR 1S 73000 Left \$481.10 71 70 11 structures 40.1 Structures NorthMain28D IWR 1S 73000 Left \$481.10 71 70 11 structures 40.2 Structures NorthMain28D IWR 1S 73000 Left \$481.10 76 75 11 structures 40.4 Structures NorthMain28D IWR 1S 73000 Right \$601.38 71 70 14 structures 40.5 Structures NorthMain28D IWR 1S 73000 Right \$601.38 75 74 15 structures 40.5 Structures NorthMain28D IWR 1S 73000 Right \$39.97 76 75 2 structures 31.1 Structures NorthMain28D IWR 1S 69000 Right \$133.26 72 71 6 structures 40.5 Structures NorthMain28D IWR 1S 74000 Right \$131.40 72 71 8 structures 40.5 Structures NorthMain28D IWR 1S 76000 Right \$131.50 72 71 8 structures 40.5 Structures NorthMain28D IWR 1S 76000 Right \$131.50 72 71 8 structures 40.5 Structures NorthMain28D IWR 1S 76000 Right \$151.90 76 75 8 structures 40.5 Structures  |          | Structures NorthMain134 IWF        | 1S         |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   220295   Right   \$234.39   70   69   14 structures   33.1   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   70   69   6 structures   33.2   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   75   74   6 structures   33.3   Structures   NorthMain134   IWR   1S   220295   Right   \$100.10   81   80   6 structures   34.1   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   71   70   14 structures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   35   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   35   Structures   NorthMain134   IWR   1S   224978   Left   \$37.87   71   70   1 structures   36   Structures   NorthMain134   IWR   1S   227602   Right   \$433.40   66   65   33 structures   37.1   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7 structures   37.2   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain2BD   IWR   1S   230198   Right   \$12.46   70   69   1 structures   39   Structures   NorthMain2BD   IWR   1S   65500   Left   \$481.10   71   70   2 structures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11 structures   40.2   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   1 structures   40.5   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   1 structures   40.5   Structures   NorthMain2BD   IWR   1S   69000   Right   \$39.97   76   75   2 structures   40.5   Structures   NorthMain2BD   IWR   1S   74000   Right   \$43.31   76   75   1 structures   40.2   Structu  | 32.1     | Structures NorthMain134 IWF        | 15         |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   70   69   6   5 tructures   33.2   Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   75   74   6   5 tructures   33.3   Structures   NorthMain134   IWR   1S   220295   Right   \$100.10   81   80   6   5 tructures   34.1   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   71   70   14   5 tructures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14   5 tructures   35   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14   5 tructures   35   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14   5 tructures   36   Structures   NorthMain134   IWR   1S   220295   Right   \$433.40   66   65   33   5 tructures   NorthMain134   IWR   1S   227602   Right   \$433.40   66   65   33   5 tructures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7   70   1   5 tructures   37.1   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8   5 tructures   38   Structures   NorthMain134   IWR   1S   230198   Right   \$12.46   70   69   1   5 tructures   39   Structures   NorthMain2BD   IWR   1S   65500   Left   \$19.95   71   70   2   5 tructures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   11   5 tructures   40.2   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11   5 tructures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   1   5 tructures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   1   5 tructures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   75   74   15   5 tructures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   75   74   15   5 tructures   40.1   Structures   NorthMain2BD   IWR   1S   74000   Right   \$75.19   76   75   2   5 tructures   5   5 tructures   NorthMain2BD   IWR   1S   74000   Right   \$151.40   72   71   | 32.2     |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   220295   Right   \$116.78   75   74   6 structures   33.3   Structures   NorthMain134   IWR   1S   220295   Right   \$100.10   81   80   6 structures   34.1   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   71   70   14 structures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   35   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   36   Structures   NorthMain134   IWR   1S   224978   Left   \$37.87   71   70   1 structures   37.1   Structures   NorthMain134   IWR   1S   222602   Right   \$433.40   66   65   33 structures   37.2   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7 structures   37.2   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain134   IWR   1S   232833   Right   \$12.46   70   69   1 structures   39   Structures   NorthMain2BD   IWR   1S   230198   Right   \$12.46   70   69   1 structures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   11 structures   40.2   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   11 structures   40.3   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11 structures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR   1S   73000   Right   \$21.52   71   70   1 structures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Right   \$43.31   76   75   2 structures   40.1   Structures   NorthMain2BD   IWR   1S   74000   Right   \$43.31   76   75   2 structures   40.1   Structures   NorthMain2BD   IWR   1S   74000   Right   \$43.31   76   75   2 structures   40.2   Struct  | 33.1     |                                    |            |              |             |                |                  |
| Structures   NorthMain134   WR   | 33.2     |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   71   70   14 structures   34.2   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   35   Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   35   Structures   NorthMain134   IWR   1S   224978   Left   \$37.87   71   70   1 structure   36   Structures   NorthMain134   IWR   1S   227602   Right   \$433.40   66   65   33 structures   37.1   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7 structures   37.2   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   37.2   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain134   IWR   1S   230198   Right   \$12.46   70   69   1 structures   39   Structures   NorthMain2BD   IWR   1S   230198   Right   \$12.46   70   69   1 structures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   21 structures   40.2   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   75   74   15 structures   40.5   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   75   74   15 structures   42.2   Structures   NorthMain2BD   IWR   1S   73000   Right   \$21.52   71   70   1 structures   42.2   Structures   NorthMain2BD   IWR   1S   74000   Right   \$13.26   72   71   6 structures   42.2   Structures   NorthMain2BD   IWR   1S   74000   Right   \$13.30   76   75   2 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$15.40   72   71   8 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$15.40   72   71   8 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$15.40   72   71   8 structures   45   51   51   51   51   51  |          |                                    | -          |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   220295   Right   \$156.04   77   76   14 structures   15   15   15   15   15   15   15   1  |          |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   224978   Left   \$37.87   71   70   1 structures   37.1   Structures   NorthMain134   IWR   1S   227602   Right   \$433.40   66   65   33 structures   37.1   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   75   74   7 structures   37.2   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   39   Structures   NorthMain2BD   IWR   1S   230198   Right   \$12.46   70   69   1 structure   39   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   12 structures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   11 structures   40.2   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11 structures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   42.2   Structures   NorthMain2BD   IWR   1S   69000   Right   \$21.52   71   70   1 structure   42.2   Structures   NorthMain2BD   IWR   1S   69000   Right   \$39.97   76   75   2 structures   43.1   Structures   NorthMain2BD   IWR   1S   74000   Right   \$43.31   76   75   1 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$43.31   76   75   1 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$43.31   76   75   1 structures   45   Structures   NorthMain2BD   IWR   1S   76000   Right   \$75.19   74   73   8 structures   46   Structures   NorthMain2BD   IWR   1S   76000   Right   \$75.19   74   73   8 structures   87   87   87   87   87   87   87   8  |          |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR 1S   227602   Right   \$433.40   66   65   33 structures   37.1   Structures   NorthMain134   IWR 1S   232833   Right   \$95.38   75   74   7 structures   37.2   Structures   NorthMain134   IWR 1S   232833   Right   \$95.38   79   78   8 structures   37.2   Structures   NorthMain134   IWR 1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain134   IWR 1S   230198   Right   \$12.46   70   69   1 structure   39   Structures   NorthMain2BD   IWR 1S   65500   Left   \$19.95   71   70   2 structures   40.1   Structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   71   70   11 structures   40.2   Structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR 1S   73000   Left   \$240.55   81   80   6 structures   40.4   Structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   71   70   14 structures   42.1   Structures   NorthMain2BD   IWR 1S   69000   Right   \$21.52   71   70   1 structure   42.2   Structures   NorthMain2BD   IWR 1S   69000   Right   \$139.97   76   75   2 structures   43.1   Structures   NorthMain2BD   IWR 1S   69000   Right   \$139.97   76   75   2 structures   44   Structures   NorthMain2BD   IWR 1S   74000   Right   \$130.2   71   71   8 structures   44   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   71   8 structures   44   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   71   8 structures   45   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   73   72   21 structures   46   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   73   72   21 structures   46   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   73   72   21 structures   46   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   73   72   21 structures   47   Structures   NorthMain2BD   IWR 1S   76000   Rig  |          |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR_1S   232833   Right   \$95.38   75   74   7 structures   Structures   NorthMain134   IWR_1S   232833   Right   \$95.38   79   78   8 structures   Structures   NorthMain134   IWR_1S   232833   Right   \$95.38   79   78   8 structures   Right   Right   \$12.46   70   69   1 structures   Right   Right   \$12.46   70   69   1 structures   Right   \$12.46   70   69   1 structures   Right   Right   \$12.46   70   69   1 structures   Right   Right   \$12.46   70   69   1 structures   Right   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   70   Right   \$12.46   Right |          |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR   1S   232833   Right   \$95.38   79   78   8 structures   38   Structures   NorthMain134   IWR   1S   230198   Right   \$12.46   70   69   1 structure   39   Structures   NorthMain2BD   IWR   1S   65500   Left   \$19.95   71   70   2 structures   40.1   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   71   70   11 structures   40.2   Structures   NorthMain2BD   IWR   1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR   1S   73000   Left   \$240.55   81   80   6 structures   40.4   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   75   74   15 structures   42.1   Structures   NorthMain2BD   IWR   1S   73000   Right   \$601.38   75   74   15 structures   42.2   Structures   NorthMain2BD   IWR   1S   69000   Right   \$601.38   75   74   15 structures   42.2   Structures   NorthMain2BD   IWR   1S   69000   Right   \$21.52   71   70   1 structure   42.2   Structures   NorthMain2BD   IWR   1S   74000   Right   \$39.97   76   75   2 structures   43.1   Structures   NorthMain2BD   IWR   1S   74000   Right   \$173.26   72   71   6 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$151.40   72   71   8 structures   44   Structures   NorthMain2BD   IWR   1S   76000   Right   \$181.52   73   72   21 structures   45   Structures   NorthMain2BD   IWR   1S   76000   Right   \$181.52   73   72   21 structures   46.1   Structures   NorthMain2BD   IWR   1S   77548   Left   \$75.19   76   75   8 structures   75   8 structures   75   Structures   NorthMain2BD   IWR   1S   77548   Left   \$75.19   76   75   8 structures   75   3 structures   75   75   75   75   75   75   75   7   |          |                                    |            |              |             |                |                  |
| Structures   NorthMain134   IWR 1S   230198   Right   \$12.46   70   69   1 structures   NorthMain2BD   IWR 1S   65500   Left   \$19.95   71   70   2 structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   71   70   11 structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   76   75   11 structures   NorthMain2BD   IWR 1S   73000   Left   \$240.55   81   80   6 structures   NorthMain2BD   IWR 1S   73000   Left   \$240.55   81   80   6 structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   71   70   14 structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   75   74   15 structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   75   74   15 structures   NorthMain2BD   IWR 1S   69000   Right   \$21.52   71   70   1 structures   NorthMain2BD   IWR 1S   69000   Right   \$39.97   76   75   2 structures   NorthMain2BD   IWR 1S   74000   Right   \$173.26   72   71   6 structures   NorthMain2BD   IWR 1S   74000   Right   \$173.26   72   71   6 structures   NorthMain2BD   IWR 1S   74000   Right   \$151.40   72   71   8 structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   71   8 structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR 1S   775  |          |                                    |            |              |             |                | 74 7 structures  |
| Structures   NorthMain2BD   IWR   IS   65500   Left   \$19.95   71   70   2 structures   NorthMain2BD   IWR   IS   73000   Left   \$481.10   71   70   11 structures   NorthMain2BD   IWR   IS   73000   Left   \$481.10   76   75   11 structures   NorthMain2BD   IWR   IS   73000   Left   \$481.10   76   75   11 structures   NorthMain2BD   IWR   IS   73000   Left   \$240.55   81   80   6 structures   NorthMain2BD   IWR   IS   73000   Right   \$601.38   71   70   14 structures   NorthMain2BD   IWR   IS   73000   Right   \$601.38   75   74   15 structures   NorthMain2BD   IWR   IS   73000   Right   \$601.38   75   74   15 structures   NorthMain2BD   IWR   IS   69000   Right   \$21.52   71   70   1 structure   NorthMain2BD   IWR   IS   69000   Right   \$39.97   76   75   2 structures   NorthMain2BD   IWR   IS   74000   Right   \$173.26   72   71   6 structures   NorthMain2BD   IWR   IS   74000   Right   \$173.26   72   71   6 structures   NorthMain2BD   IWR   IS   74000   Right   \$151.40   72   71   8 structures   NorthMain2BD   IWR   IS   76000   Right   \$181.52   73   72   21 structures   NorthMain2BD   IWR   IS   76000   Right   \$181.52   73   72   21 structures   NorthMain2BD   IWR   IS   76000   Right   \$181.52   73   72   21 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR   IS   77548   Left   \$75.19  |          |                                    |            |              |             |                | 78 8 structures  |
| Structures   NorthMain2BD   IWR 1S   65500   Left   \$19.95   71   70   2 structures   40.1   Structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   71   70   11 structures   40.2   Structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR 1S   73000   Left   \$240.55   81   80   6 structures   40.4   Structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   75   74   15 structures   42.1   Structures   NorthMain2BD   IWR 1S   69000   Right   \$21.52   71   70   1 structure   42.2   Structures   NorthMain2BD   IWR 1S   69000   Right   \$39.97   76   75   2 structures   43.1   Structures   NorthMain2BD   IWR 1S   74000   Right   \$173.26   72   71   6 structures   43.2   Structures   NorthMain2BD   IWR 1S   74000   Right   \$43.31   76   75   1 structures   44   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   71   8 structures   45   Structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   46.1   Structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75   8 structures   75   9   76   75  |          |                                    |            |              | \$12.46     | 70             | 69 1 structure   |
| 40.1 Structures NorthMain2BD   IWR 1S   73000   Left   \$481.10   71   70   11 structures   40.2   Structures   NorthMain2BD   IWR 1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR 1S   73000   Left   \$240.55   81   80   6 structures   40.4   Structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR 1S   73000   Right   \$601.38   75   74   15 structures   42.1   Structures   NorthMain2BD   IWR 1S   69000   Right   \$21.52   71   70   1 structure   42.2   Structures   NorthMain2BD   IWR 1S   69000   Right   \$39.97   76   75   2 structures   43.1   Structures   NorthMain2BD   IWR 1S   74000   Right   \$173.26   72   71   6 structures   43.2   Structures   NorthMain2BD   IWR 1S   74000   Right   \$43.31   76   75   1 structure   44   Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   71   8 structures   44   Structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   45   Structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   46.2   Structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 structures   77548   Left   \$75.19   76   75   8 struc   |          |                                    |            |              | \$19.95     | 71             |                  |
| Structures   NorthMain2BD   IWR_1S   73000   Left   \$481.10   76   75   11 structures   40.3   Structures   NorthMain2BD   IWR_1S   73000   Left   \$240.55   81   80   6 structures   40.4   Structures   NorthMain2BD   IWR_1S   73000   Right   \$601.38   71   70   14 structures   40.5   Structures   NorthMain2BD   IWR_1S   73000   Right   \$601.38   75   74   15 structures   42.1   Structures   NorthMain2BD   IWR_1S   69000   Right   \$21.52   71   70   1 structure   42.2   Structures   NorthMain2BD   IWR_1S   69000   Right   \$39.97   76   75   2 structures   43.1   Structures   NorthMain2BD   IWR_1S   74000   Right   \$173.26   72   71   6 structures   43.2   Structures   NorthMain2BD   IWR_1S   74000   Right   \$43.31   76   75   1 structure   44   Structures   NorthMain2BD   IWR_1S   76000   Right   \$151.40   72   71   8 structures   45   Structures   NorthMain2BD   IWR_1S   76000   Right   \$181.52   73   72   21 structures   46.2   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   47   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   3 structures   75   75   75   3 structures   75   75   75   75   75   3 structures   75   75   75   75   75   75   75   7  |          |                                    |            |              | \$481.10    | 71             |                  |
| Structures   NorthMain2BD   IWR_1S   73000   Left   \$240.55   81   80   6 structures   10.4   Structures   NorthMain2BD   IWR_1S   73000   Right   \$601.38   71   70   14 structures   14.1   Structures   NorthMain2BD   IWR_1S   73000   Right   \$601.38   75   74   15 structures   15 structures   NorthMain2BD   IWR_1S   69000   Right   \$21.52   71   70   1 structures   15   15   15   15   15   15   15   1  |          |                                    | _1S        | 73000 Left   | \$481.10    | 76             |                  |
|  |          | Structures NorthMain2BD IWR        | _1S        | 73000 Left   | \$240.55    |                |                  |
| Structures   NorthMain2BD   IWR_1S   73000   Right   \$601.38   75   74   15 structures   \$42.1   Structures   NorthMain2BD   IWR_1S   69000   Right   \$21.52   71   70   1 structure   \$42.2   Structures   NorthMain2BD   IWR_1S   69000   Right   \$39.97   76   75   2 structures   \$43.1   Structures   NorthMain2BD   IWR_1S   74000   Right   \$173.26   72   71   6 structures   \$43.2   Structures   NorthMain2BD   IWR_1S   74000   Right   \$43.31   76   75   1 structure   \$43.2   Structures   NorthMain2BD   IWR_1S   76000   Right   \$151.40   72   71   8 structures   \$44   Structures   NorthMain2BD   IWR_1S   76000   Right   \$181.52   73   72   21 structures   \$45   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   74   73   8 structures   \$45   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   \$45   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   \$45   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   \$45   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   Structures   NorthMain2BD   IWR_1S   87300   Right   \$45   |          | Structures NorthMain2BD   IWR      | 18         | 73000 Right  |             |                |                  |
| Structures   NorthMain2BD   IWR_1S   69000   Right   \$21.52   71   70   1 structures   NorthMain2BD   IWR_1S   69000   Right   \$39.97   76   75   2 structures   NorthMain2BD   IWR_1S   74000   Right   \$173.26   72   71   6 structures   NorthMain2BD   IWR_1S   74000   Right   \$43.31   76   75   1 structures   NorthMain2BD   IWR_1S   76000   Right   \$151.40   72   71   8 structures   NorthMain2BD   IWR_1S   76000   Right   \$181.52   73   72   21 structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   74   73   8 structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   I  | 40.5     | Structures NorthMain2BD   IWR      | 18         |              |             |                |                  |
| 12.2   Structures   NorthMain2BD   IWR_1S   69000   Right   \$39.97   76   75   2 structures   13.1   Structures   NorthMain2BD   IWR_1S   74000   Right   \$173.26   72   71   6 structures   13.2   Structures   NorthMain2BD   IWR_1S   74000   Right   \$43.31   76   75   1 structure   14   Structures   NorthMain2BD   IWR_1S   76000   Right   \$151.40   72   71   8 structures   15   Structures   NorthMain2BD   IWR_1S   76000   Right   \$181.52   73   72   21 structures   16.1   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   74   73   8 structures   16.2   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   17   Structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   17   Structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   18   18   18   18   18   18   18   1   | 42.1     |                                    |            |              |             |                |                  |
|  | 12.2     |                                    |            |              |             |                |                  |
|  | 13.1     |                                    |            |              |             |                |                  |
| Structures   NorthMain2BD   IWR 1S   76000   Right   \$151.40   72   71   8 structures   Structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   16.1   Structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   74   73   8 structures   16.2   Structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   17   Structures   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   75   3 structures   17   Structures   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   75   3 structures   18   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   75   3 structures   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   NorthMain2BD   IWR 1S   Right   \$120.35   76   NorthMain2BD   IWR 1S   Right   \$120.35   76   NorthMain2BD   IWR 1S   Right   \$120.35   76   NorthMain2BD   IWR 1S   Right   Right   \$120.35   76   NorthMain2BD   IWR 1S   Right   Rig  | 13.2     |                                    |            |              |             |                |                  |
| Structures   NorthMain2BD   IWR 1S   76000   Right   \$181.52   73   72   21 structures   16.1   Structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   74   73   8 structures   16.2   Structures   NorthMain2BD   IWR 1S   77548   Left   \$75.19   76   75   8 structures   17   Structures   NorthMain2BD   IWR 1S   87300   Right   \$120.35   76   75   3 structures   18   18   18   18   18   18   18   1   |          |                                    |            |              |             |                |                  |
| 16.1   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   74   73   8 structures   16.2   Structures   NorthMain2BD   IWR_1S   77548   Left   \$75.19   76   75   8 structures   17   Structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   17   18   18   18   18   18   18   18  |          |                                    |            |              |             |                |                  |
| 16.2   Structures   NorthMain2BD   IWR_1S     77548   Left   \$75.19   76   75   8 structures   75   8 structures   75   8 structures   17   Structures   NorthMain2BD   IWR_1S   87300   Right   \$120.35   76   75   3 structures   17   18   18   18   18   18   18   18  |          |                                    |            |              |             |                |                  |
| Structures NorthMain2BD IWR_1S 87300 Right \$120.35 76 75 3 structures   |          |                                    |            |              |             |                |                  |
| 75/5 Structures  |          |                                    |            |              |             |                |                  |
| Suructures NorthMainZBD IVVR_1S 95000 Left \$182.24 86 85 13 structures  |          |                                    |            |              |             |                |                  |
|  | 10       | Structures NorthMain2BD TWR        | 15         | 95000 Left   | \$182.24    | 86             | 85 13 structures |

| <del></del> | arrie Cat_name | Stream_name       | Occ_          | Name | Station    | Bank  | Struc Val  | IF Stage | Grnd_Stage | NI-A.                                   |
|-------------|----------------|-------------------|---------------|------|------------|-------|------------|----------|------------|---|
| 49          | Structures     | NorthMain2BD      | IWR           |      | 95000      |       | \$343.58   | II_Stage |            |   |
| 50          |                | NorthMain2BD      | IWR           |      | 95000      |       | \$401.33   | 85       |            | 20 structure                            |
| 51          | Structures     | NorthMain2BD      | IWR           |      | 97900      | l off | \$37.28    | 85       |            | 10 structure                            |
| 52          | Structures     | NorthMain2BD      | IWR           |      | 104800     | Left  | \$247.43   | 85       |            | 1 structure                             |
| 55          | Structures     | NorthMain2BD      | IWR           |      | 105420     |       |            | 85       |            | 12 structure                            |
| 56          |                | NorthMain2BD      | IWR           |      | 105420     |       | \$298.90   | 86       |            | 14 structure                            |
| 57          |                | NorthMain2BD      | IWR_          |      | 111500     | Diabt | \$42.09    | 86       |            | 2 structures                            |
| 58          |                | NorthMain2BD      | IWR           |      | 111500     | right | \$1,093.98 | 84       |            | 36 structure                            |
| 59          |                | NorthMain2BD      | IWR_          |      |            |       | \$444.07   | 86       |            | 18 structure                            |
| 60          |                | NorthMain2BD      | IWR           |      | 111500     |       | \$485.05   | 84       | 83         | 24 structure                            |
| 61          |                | NorthMain2BD      | IWR           |      | 116403     |       | \$413.18   | 81       | 80         | 12 structure                            |
| 62          |                |                   | IWR ·         |      | 116403     |       | \$185.09   | 81       | 80         | 8 structures                            |
| 63          |                |                   | IWR           |      | 60700      |       | \$113.95   | 68       | 67         | 4 structures                            |
| 64          |                | Raymondville128   | IVVIC         | 10   | 250860     |       | \$710.89   | 71       |            | 28 structure                            |
| 65          | Structures     | Poumonduille 128  | IVVK_         | 15   | 293500     | Right | \$813.05   | 84       |            | 28 structure                            |
| 66          | Structures     | Raymondville128   | IWR_1         | IS   | 293500     |       | \$480.05   | 86       |            | 17 structure                            |
| 67<br>67    | Structures     | Raymondville128   | IWR_1         | IS   | 293500     | Right | \$272.19   | 86       |            | structures                              |
| 68          | Structures     | Raymondville128   | <u> IWR_1</u> | ıs   | 293500     | Right | \$50.72    | 86       |            | structure                               |
| 59          | Structures     | Raymondville128   | <u> [WR_1</u> | S    | 291800     | Right | \$469.16   | 86       |            | 23 structure                            |
|             | Structures     | Raymondville128   | <u> IWR_1</u> | S    | 289400     | Right | \$916.50   | 86       | 85 /       | 6 structure:                            |
| 70          | Structures     | Raymondville128   | IWR_1         | S    | 289400 F   | Right | \$725.54   | 86       |            | 34 structure:                           |
| 71          | Structures     | Raymondville128   | IWR_1         | S    | 291800 F   | Right | \$82.03    | 86       |            |   |
| 72          | Structures I   | Raymondville128   | IWR_1         | S    | 289400 F   | Right | \$535.54   | 86       |            | structures                              |
| 73          | Structures I   | Raymondville128   | IWR_1         | S    | 289400 F   | Right | \$1,545.25 | 86       |            | 9 structure:                            |
| 74          |                | NorthMain134      | IWR 1         | S    | 254845 L   |       | \$1,888.82 | 71       | 85 2       | 1 structures                            |
| <b>'</b> 6  |                | NorthMain134      | WR_1          | S    | 258681 L   |       | \$153.75   | 74       | 70 /       | 0 structures                            |
| 77          | Structures 1   |                   | WR_1          |      | 69000 F    |       | \$18.53    |          | /3 1       | 2 structures                            |
| 8           |                |                   | WR 1          |      | 73000 F    | Piaht | \$259.62   | 71       |            | structures                              |
| 9           |                |                   | WR 1          |      | 258681 L   | off   |            | 73       |            | structures                              |
| 1           |                |                   | WR 1          |      | 258681 L   |       | \$1,272.39 | 71       |            | 3 structure                             |
| 2           |                |                   | WR 1          |      |            |       | \$269.54   | 68       |            | 3 structures                            |
| 3           |                |                   | WR 1          |      | 256121 L   |       | \$363.99   | 71       | 70 1       | 9 structures                            |
| 4           |                |                   | WR_1          |      | 256121 L   |       | \$213.16   | 71       | 70 1       | 3 structures                            |
| 5           |                |                   | WR_1          |      | 256121 L   |       | \$891.91   | 71       | 70 2       | 9 structures                            |
| 6           |                |                   | WR_1          |      | 256121 L   | eft   | \$392.21   | 71       |            | structures                              |
| 7           | Structures N   |                   |               |      | 254845 L   |       | \$117.44   | 71       | 70 2       | structures                              |
| 01          |                |                   | WR_19         | 5    | 254845 L   |       | \$121.92   | 71       |            | structures                              |
| 02          | Structures R   | aymondville128 I  | WR_18         | 3    | 250350 L   |       | \$18.89    | 73       |            | structure                               |
| 06          | Structures R   | aymondville128 I  | WR_18         | 3    | 252200 R   |       | \$18.96    | 87       |            | structure                               |
|             | Structures     | aymondville128    | WR_15         | 3    | 268100 R   | ight  | \$5,166.92 | 96       | 95 1       | structure                               |
| 07          | Structures R   | aymondville128 I\ | WR_18         | 3    | 268100 R   | ight  | \$5,166.92 | 96       |            | structure                               |
| 08          | Structures R   | aymondville128  \ | NR_15         | 3    | 270300 R   | ight  | \$5,166.92 | 86       |            | structure                               |
| 09          | Structures R   | aymondville128  \ | NR_18         | 3    | 270300 R   | ight  | \$5,166.92 | 91       |            | structure                               |
| 10          | Structures R   | aymondville128 IV | <b>VR_1</b> S | 3    | 270300 R   | aht   | \$5,166.92 | 77       |            |   |
| 11          | Structures R   | aymondville128 IV | VR 15         | }    | 272300 Ri  | aht   | \$5,166.92 | 81       |            | structure                               |
| 12          | Structures R   | aymondville128 IV | VR 1S         | 3    | 272300 Ri  |       | \$202.43   | 82       |            | structure                               |
| 3           | Structures R   | aymondville128 IV | VR 1S         |      | 273500 Ri  |       | \$225.78   |          |            | structure                               |
| 4           | Structures R   | aymondville128 IV | VR 1S         | -    | 273500 Ri  |       | \$2.10     | 86       |            | structure                               |
| 8           | Structures Ra  | aymondville128 IV | VR 1S         |      | 279700 Le  |       | \$44.13    | 88       |            | structure                               |
| 2           | Structures Ra  | aymondville128 IV | VR 1S         | -+   | 281800 Ri  |       |            | 82       |            | structure                               |
| 3           | Structures Ra  | aymondville128 IV | VR 19         | _    | 285100 Ri  | giit  | \$173.46   | 81       |            | structure                               |
| 4           | Structures Ra  | aymondville128 IV | VR 19         |      |            |       | \$229.90   | 87       |            | structure                               |
| 5           | Structures Pa  | symondville128 IV | VD 40         |      | 285100 Le  |       | \$288.66   | 78       |            | tructure                                |
| 6           | Structures Po  | aymondville128 IV | VR_13         |      | 289400 Rig | gnt   | \$4,150.43 | 88       |            | tructure                                |
| 7           | Structures De  | vmondella 400 !!  | VK_15         |      | 295300 Le  | Ht    | \$19.05    | 82       |            | tructure                                |
| 8           | Structures Ra  | ymondville128 IW  | VK_1S         |      | 295300 Rig | ght   | \$130.38   | 82       |            | tructure                                |
| 0002        | Structures Ra  | ymondville128 IW  |               |      | 296300 Rig | ght   | \$75.11    | 80       |            | tructure                                |
| 0002        | Structures No  |                   | /R_1S         |      | 128000 Let | ft    | \$30.03    | 36       |            | tructure                                |
| 0009        | Structures No  |                   | /R 1S         |      | 128000 Lei |       |            |          |            | 111111111111111111111111111111111111111 |

| Struc Name | Cat name   | Stream name                  | Occ. Name | Ctation  | Doole | 104       | 15 8:      |    |             |
|------------|------------|------------------------------|-----------|----------|-------|-----------|------------|----|-------------|
| R10037     |            | NorthMain134                 | Occ_Name  |          | Bank  | Struc_Val | 1F_Stage G |    |             |
| R10038     |            | NorthMain134                 | IWR 1S    | 128000   |       | \$28.28   |            |    | 1 structure |
| R10057     |            | NorthMain134                 | IWR 1S    | 128000   |       | \$17.84   |            |    | 1 structure |
| R10060     |            | NorthMain134                 | IWR 1S    | 128000   |       | \$18.04   |            |    | 1 structure |
| R10085     |            | NorthMain134                 | IWR 1S    | 128000   |       | \$27.58   | 36         |    | 1 structure |
| R10096     |            | NorthMain134                 | IWR 1S    | 129441   |       | \$14.45   | 36         |    | 1 structure |
| R10126     |            | NorthMain134                 |           | 128000   |       | \$4.38    | 36         |    | 1 structure |
| R10140     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$21.69   | 36         |    | 1 structure |
| R10142     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$15.29   | 34         |    | 1 structure |
| R10149     |            |                              | IWR_1S    | 120000   |       | \$7.13    |            |    | 1 structure |
| R10174     |            | NorthMain134<br>NorthMain134 | IWR_1S    | 128000   |       | \$24.18   | 36         |    | 1 structure |
| R10201     |            |                              | IWR_1S    | 129441   |       | \$20.75   | 36         |    | 1 structure |
| R10227     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$27.17   | 36         |    | 1 structure |
| R10235     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$7.74    | 36         |    | 1 structure |
|            |            | NorthMain134                 | IWR_1S    | 124000   |       | \$8.34    | 36         |    | 1 structure |
| R10242     |            | NorthMain134                 | IWR_1S    | 126000   |       | \$20.61   | 36         |    | 1 structure |
| R10291     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$17.06   | 36         | 35 | 1 structure |
| R10301     |            | NorthMain134                 | IWR_1S    | 138000   |       | \$46.26   | 40         | 39 | 1 structure |
| R10355     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$27.74   | 36         | 35 | 1 structure |
| R10357     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$1.20    | 36         | 35 | 1 structure |
| R10358     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$11.46   | 36         | 35 | 1 structure |
| R10360     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$12.20   | 36         | 35 | 1 structure |
| R10363     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$9.42    | 32         | 31 | 1 structure |
| R10365     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$19.33   | 33         | 32 | 1 structure |
| R10373     |            | NorthMain134                 | IWR_1S    | 128000   |       | \$20.90   | 34         | 33 | 1 structure |
| R10390     |            | NorthMain134                 | JWR_1S    | 128000   | Left  | \$33.83   | 36         | 35 | 1 structure |
| R10414     |            | NorthMain134                 | IWR_1S    | 126000   |       | \$34.98   | 36         | 35 | 1 structure |
| R10454     |            | NorthMain134                 | IWR_1S    | 151600   |       | \$5.60    | 47         | 46 | 1 structure |
| R10460     |            | NorthMain134                 | IWR_1S    | 128000   | Left  | \$20.69   | 36         |    | 1 structure |
| R10465     |            | NorthMain134                 | IWR_1S    | 126000   | Left  | \$59.69   | 36         | 35 | 1 structure |
| R10496     |            | NorthMain134                 | IWR_1S    | 122000   | Left  | \$21.72   | 31         |    | structure   |
| R10585     |            | NorthMain134                 | IWR_1S    | 120000   | Left  | \$93.17   | 32         |    | 1 structure |
| R10704     | Structures | NorthMain134                 | IWR_1S    | 94000    | Left  | \$0.35    | 27         |    | 1 structure |
| R10705     |            | NorthMain134                 | IWR_1S    | 128000   | Left  | \$24.41   | 36         | 35 | 1 structure |
| R10711     |            | NorthMain134                 | IWR_1S    | 138000   | Left  | \$79.37   | 38         |    | 1 structure |
|            |            | NorthMain134                 | IWR_1S    | 94000    | Left  | \$19.11   | 26         |    | structure   |
| R10820     |            | NorthMain134                 | IWR_1S    | 108000   | Right | \$65.51   | 31         |    | structure   |
|            | Structures | NorthMain134                 | IWR_1S    | 129441   | Left  | \$19.19   | 37         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 134000   | Left  | \$19.33   | 35         |    | structure   |
| R10942     | Structures | NorthMain134                 | IWR_1S    | 128000   | Left  | \$10.08   | 34         |    | structure   |
| R10950     | Structures | NorthMain134                 | IWR_1S    | 128000   | Left  | \$9.50    | 36         |    | structure   |
| R10952     | Structures | NorthMain134                 | IWR_1S    | 126000   | Left  | \$24.39   | 36         |    | structure   |
| R10977     | Structures | NorthMain134                 | IWR_1S    | 128000   | Left  | \$21.64   | 34         |    | structure   |
| R10999     | Structures | NorthMain134                 | IWR_1S    | 128000   | Left  | \$21.30   | 34         |    | structure   |
| R11005     | Structures | NorthMain134                 | IWR_1S    | 124000   | _eft  | \$3.04    | 36         |    | structure   |
| R11044     | Structures | NorthMain134                 | IWR_1S    | 124000   |       | \$14.16   | 36         |    | structure   |
| R11045     | Structures | NorthMain134                 | IWR 1S    | 124000   |       | \$17.51   | 36         |    | structure   |
| R11051     | Structures | NorthMain134                 | IWR_1S    | 124000   |       | \$36.98   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 126000   |       | \$22.03   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 128000   |       | \$12.47   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 126000   |       | \$16.56   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR 1S    | 128000   |       | \$25.55   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR 1S    | 128000 1 |       | \$42.74   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 129441   |       | \$52.09   | 40         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 128000   |       | \$6.18    | 34         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 12800011 |       | \$10.28   | 36         |    | structure   |
|            |            | NorthMain134                 | IWR_1S    | 128000 L |       | \$6.37    | 36         |    | structure   |
|            |            |                              |           | 12300012 |       | \$0.57    | 301        |    | Suuciale    |

| Struc Na | me Cat_name   Stream_na  | me Occ N   | Jame ! | Station  | Bank  | Strue Val | 4E Ctore | 0-10-11          |
|----------|--------------------------|------------|--------|----------|-------|-----------|----------|------------------|
| R11102   | Structures NorthMain     |            |        | 94000    |       | \$31.12   |          | Grnd_Stage Notes |
| R11104   | Structures NorthMain1    |            |        | 128000   |       | \$5.35    | 26       | 25 1 structure   |
| R11115   | Structures NorthMain1    |            |        | 128000   |       | \$25.02   |          | 32 1 structure   |
| R11125   | Structures NorthMain1    |            |        | 128000   |       |           | 33       | 32 1 structure   |
| R11143   | Structures NorthMain1    |            |        | 126000   |       | \$43.47   | 36       | 35 1 structure   |
| R11161   | Structures NorthMain1    |            |        | 102000   |       | \$1.82    | 36       | 35 1 structure   |
| R11173   | Structures NorthMain1    |            |        | 140000   |       | \$53.62   | 36       | 35 1 structure   |
| R11176   | Structures NorthMain1    |            |        | 140000   |       | \$3.24    | 40       | 39 1 structure   |
| R11187   | Structures NorthMain1    |            |        |          |       | \$90.86   | 40       | 39 1 structure   |
| R11215   | Structures NorthMain1    |            |        | 129441   |       | \$10.50   | 36       | 35 1 structure   |
| R11216   | Structures NorthMain1    |            |        | 128000   |       | \$12.45   | 35       | 34 1 structure   |
| R11222   | Structures NorthMain1    |            |        | 128000   |       | \$7.88    | 33       | 32 1 structure   |
| R11226   | Structures NorthMain1    |            |        | 129441   |       | \$39.90   | 36       | 35 1 structure   |
| R11236   | Structures NorthMain1    |            |        | 128000   |       | \$29.14   | 33       | 32 1 structure   |
| R11243   | Structures NorthMain1    |            |        | 129441   |       | \$34.11   | 35       | 34 1 structure   |
| R11252   | Structures NorthMain1    |            |        | 128000   |       | \$6.92    | 36       | 35 1 structure   |
| R11260   | Structures NorthMain1    |            |        | 128000   |       | \$57.85   | 35       | 34 1 structure   |
| R11263   | Structures NorthMain1    |            |        | 128000   |       | \$12.10   | 36       | 35 1 structure   |
| R11283   | Structures NorthMain1    |            |        | 128000   |       | \$56.82   | 36       | 35 1 structure   |
| R11307   |                          |            |        | 128000   |       | \$26.34   | 36       | 35 1 structure   |
| R11356   | Structures NorthMain1    |            |        | 128000   |       | \$24.30   | 36       | 35 1 structure   |
| R11384   | Structures NorthMain1    |            |        | 126000   |       | \$59.46   | 32       | 31 1 structure   |
| R11393   | Structures NorthMain1    |            |        | 128000   |       | \$24.47   | 36       | 35 1 structure   |
| R11399   | Structures NorthMain1    |            |        | 128000   |       | \$5.54    | 36       | 35 1 structure   |
|          | Structures NorthMain1    |            |        | 128000   |       | \$18.44   | 36       | 35 1 structure   |
| R11433   | Structures NorthMain1    |            |        | 126000   |       | \$16.82   | 36       | 35 1 structure   |
| R11462   | Structures NorthMain1    |            |        | 128000   |       | \$7.23    | 36       | 35 1 structure   |
| R11499   | Structures NorthMain1    |            |        | 128000   |       | \$14.94   | 36       | 35 1 structure   |
| R11538   | Structures NorthMain1    |            |        | 124000   |       | \$26.12   | 36       | 35 1 structure   |
| R11551   | Structures NorthMain1    |            |        | 102000   |       | \$5.40    | 31       | 30 1 structure   |
| R11553   | Structures NorthMain13   |            |        | 98000    |       | \$0.20    | 30       | 29 1 structure   |
| R11619   | Structures NorthMain1:   |            |        | 129441   |       | \$20.26   | 36       | 35 1 structure   |
| R11677   | Structures NorthMain13   |            |        | 129441   |       | \$21.67   | 34       | 33 1 structure   |
| R11715   | Structures NorthMain13   |            |        | 128000 1 |       | \$26.81   | 36       | 35 1 structure   |
| R11735   | Structures NorthMain13   |            |        | 128000 1 |       | \$22.19   | 36       | 35 1 structure   |
| R11803   | Structures NorthMain13   |            |        | 128000 [ |       | \$7.94    | 36       | 35 1 structure   |
| R11857   | Structures NorthMain13   |            |        | 128000 L |       | \$25.74   | 35       | 34 1 structure   |
| R11875   | Structures NorthMain13   |            |        | 126000 l |       | \$5.15    | 32       | 31 1 structure   |
| R11940   | Structures NorthMain13   |            |        | 128000 L |       | \$10.83   | 36       | 35 1 structure   |
| R11978   | Structures NorthMain13   |            |        | 128000 L |       | \$6.91    | 36       | 35 1 structure   |
| R12023   | Structures NorthMain13   |            |        | 128000 L |       | \$7.55    | 34       | 33 1 structure   |
| R12028   | Structures   NorthMain13 |            |        | 128000 L |       | \$26.44   | 36       | 35 1 structure   |
| R12031   | Structures NorthMain13   |            |        | 136000 L |       | \$16.76   | 36       | 35 1 structure   |
| R12111   | Structures NorthMain13   |            |        | 136000 L |       | \$28.77   | 35       | 34 1 structure   |
| R12117   | Structures NorthMain13   |            |        | 126000 L |       | \$54.10   | 36       | 35 1 structure   |
| R12138   | Structures   NorthMain13 |            |        | 128000 L |       | \$13.10   | 34       | 33 1 structure   |
| R12146   | Structures NorthMain13   |            |        | 128000 L |       | \$12.73   | 36       | 35 1 structure   |
| R12173   | Structures NorthMain13   |            |        | 128000 L |       | \$8.53    | 36       | 35 1 structure   |
| R12186   | Structures NorthMain13   |            |        | 128000 L |       | \$7.31    | 35       | 34 1 structure   |
| R12187   | Structures NorthMain13   |            |        | 128000 L |       | \$29.16   | 36       | 35 1 structure   |
| R12191   | Structures NorthMain13   |            |        | 128000 L |       | \$31.35   | 36       | 35 1 structure   |
| R12196   | Structures NorthMain13   |            |        | 128000 L |       | \$1.55    | 36       | 35 1 structure   |
| R12271   | Structures NorthMain13   |            |        | 104000 R | Right | \$0.60    | 32       | 31 1 structure   |
| R12294   | Structures NorthMain13   |            | 3      | 126000 L | eft   | \$1.20    | 35       | 34 1 structure   |
| R12304   | Structures NorthMain13   |            | 3      | 124000 L | eft   | \$10.74   | 36       | 35 1 structure   |
| R12325   | Structures NorthMain13   |            |        | 128000 L | eft   | \$35.95   | 36       | 35 1 structure   |
| R12381   | Structures NorthMain13   | 4   IWR_1S |        | 128000 L | eft   | \$13.25   | 36       | 35 1 structure   |
|          |                          | _          |        |          |       |           |          |                  |

| R12393   Structures   NorthMain134   IWR   18   129441   Left   \$40.05   36   35   Structures   R12445   Structures   NorthMain134   IWR   18   138000   Left   \$77.51   38   37   Structures   R12445   Structures   NorthMain134   IWR   18   128000   Left   \$73.34   38   33   Structures   R12446   Structures   NorthMain134   IWR   18   124001   Left   \$30.92   36   35   Structures   R12446   Structures   NorthMain134   IWR   18   124001   Left   \$30.92   36   35   Structures   R12446   Structures   NorthMain134   IWR   18   128000   Left   \$28.23   36   35   Structures   R12447   Structures   NorthMain134   IWR   18   128000   Left   \$20.97   36   35   Structures   R12447   R12447   Left   \$20.97   36   35   Structures   R12447   R12447   Left   \$20.97   36   35   Structures   R12447   R12447   Left   \$20.97   36   35   Structures   R12447   R12447   Left   \$20.97   36   35   Structures   R12447   R            | R12939   Structures   NorthMain134   WR   18   129441   Left   \$64.05   36   35   insucture   R12445   Structures   NorthMain134   WR   18   138000   Left   \$77.81   38   37   insucture   R12445   Structures   NorthMain134   WR   18   128000   Left   \$13.34   36   35   insucture   R12445   Structures   NorthMain134   WR   18   128000   Left   \$30.02   36   35   insucture   R12445   Structures   NorthMain134   WR   18   128000   Left   \$30.02   36   35   insucture   R12447   Structures   NorthMain134   WR   18   128000   Left   \$77.77   36   35   insucture   R12447   Structures   NorthMain134   WR   18   128000   Left   \$28.23   36   35   insucture   R12447   Structures   NorthMain134   WR   18   128000   Left   \$20.97   36   35   insucture   R12500   Structures   NorthMain134   WR   18   128000   Left   \$20.97   36   35   insucture   R12507   Structures   NorthMain134   WR   18   128000   Left   \$20.97   36   35   insucture   R12507   Structures   NorthMain134   WR   18   128000   Left   \$20.97   36   35   insucture   R12507   Structures   NorthMain134   WR   18   128000   Left   \$27.52   36   35   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$34.16   36   35   insucture   R12515   Structures   NorthMain134   WR   18   128000   Left   \$3.47   35   34   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$3.57   35   34   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$2.59   35   34   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$2.59   32   31   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$2.59   32   31   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$2.59   32   31   insucture   R12514   Structures   NorthMain134   WR   18   128000   Left   \$3.49   36   35   insucture   R12500   Structures   NorthMain134   WR   18   128000   Left   \$3.49   36   35   insucture   R12500   Structures   NorthMain134   WR   18   128000   Left   \$3.40   36   35        | Struc Nan | neCat_name  S | Stream name   | Occ Name | Ctotion  | Dank | 104       |          |        |             |
|--|---|-----------|---------------|---------------|----------|----------|------|-----------|----------|--------|-------------|
| R12432   Structures   NorthMain134   IWR   IS   128000 Left   S17,81   38   371   structure   R12457   Structures   NorthMain134   IWR   IS   128000 Left   S13,34   36   351   structure   R12457   Structures   NorthMain134   IWR   IS   128001 Left   S28,23   36   351   structure   R124497   Structures   NorthMain134   IWR   IS   128001 Left   S28,23   36   351   structure   R124497   Structures   NorthMain134   IWR   IS   128000 Left   S28,23   36   351   structure   R124097   Structures   NorthMain134   IWR   IS   128000 Left   S29,97   36   351   structure   R12500   Structures   NorthMain134   IWR   IS   128000 Left   S29,97   36   351   structure   R12500   Structures   NorthMain134   IWR   IS   128000 Left   S29,37   36   351   structure   R12500   Structures   NorthMain134   IWR   IS   128000 Left   S29,37   36   351   structure   R12500   Structures   NorthMain134   IWR   IS   128000 Left   S29,37   36   351   structure   R12515   Structures   NorthMain134   IWR   IS   128000 Left   S29,37   36   351   structure   R12515   Structures   NorthMain134   IWR   IS   128000 Left   S29,37   36   351   structure   R12515   Structures   NorthMain134   IWR   IS   128000 Left   S11,99   35   34   structure   R12515   Structures   NorthMain134   IWR   IS   128000 Left   S7,80   35   34   structure   R12515   Structures   NorthMain134   IWR   IS   128000 Left   S28,92   36   35   structure   R12620   Structures   NorthMain134   IWR   IS   128000 Left   S28,92   36   35   structure   R12620   Structures   NorthMain134   IWR   IS   128000 Left   S28,92   36   35   structure   R12620   Structures   NorthMain134   IWR   IS   128000 Left   S28,92   36   35   structure   R12620   Structures   NorthMain134   IWR   IS   128000 Left   S28,92   36   35   structure   R12620   Structures   NorthMain134   IWR   IS   128000 Left   S18,07   S19                       | R12422   Structures   NorthMain134   WR   15   128000   Left   577.50   38   35   structures   R12454   Structures   NorthMain134   WR   15   128000   Left   513.34   36   35   structures   R12457   Structures   NorthMain134   WR   15   128441   Left   580.92   36   35   structures   R12457   Structures   NorthMain134   WR   15   128441   Left   582.23   36   35   structures   R12457   Structures   NorthMain134   WR   15   128400   Left   520.97   36   35   structures   R12507   Structures   NorthMain134   WR   15   128000   Left   520.97   36   35   structures   R12507   Structures   NorthMain134   WR   15   128000   Left   520.97   36   35   structures   R12507   Structures   NorthMain134   WR   15   128000   Left   520.97   36   35   structures   R12507   Structures   NorthMain134   WR   15   128000   Left   520.97   36   35   structures   R12507   Structures   NorthMain134   WR   15   128000   Left   520.37   36   35   structures   R12510   Structures   NorthMain134   WR   15   128000   Left   534.16   36   35   structures   R12510   Structures   NorthMain134   WR   15   128000   Left   534.16   36   35   structures   R12510   Structures   NorthMain134   WR   15   128000   Left   57.80   35   34   structures   R12510   Structures   NorthMain134   WR   15   128000   Left   57.80   35   34   structures   R12510   R1251                              |           |               |               |          |          | Bank | Struc_Val | 1F_Stage |        |             |
| R12454   Structures   NorthMain134   WR   15   128000   Left   \$13,34   36   36   1 structures   R12457   Structures   NorthMain134   WR   15   128441   Left   \$80,92   36   35   1 structure   R12464   Structures   NorthMain134   WR   15   128401   Left   \$28,23   36   35   1 structure   R12497   Structures   NorthMain134   WR   15   128000   Left   \$7,77   36   35   1 structure   R12501   Structures   NorthMain134   WR   15   128000   Left   \$20,97   36   35   1 structure   R12506   Structures   NorthMain134   WR   15   128000   Left   \$29,37   36   35   1 structure   R12510   Structures   NorthMain134   WR   15   128000   Left   \$29,37   36   35   1 structure   R12510   Structures   NorthMain134   WR   15   128000   Left   \$21,52   36   35   1 structure   R12510   Structures   NorthMain134   WR   15   128000   Left   \$34,16   36   35   1 structure   R12515   Structures   NorthMain134   WR   15   128000   Left   \$34,16   36   35   1 structure   R12515   Structures   NorthMain134   WR   15   128000   Left   \$31,19   35   34   1 structure   R12516   Structures   NorthMain134   WR   15   128000   Left   \$37,80   35   34   1 structure   R12516   Structures   NorthMain134   WR   15   128000   Left   \$33,17   35   34   1 structure   R12514   Structures   NorthMain134   WR   15   128000   Left   \$32,59   36   35   1 structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$22,59   36   36   35   structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$22,59   36   36   36   structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$22,59   36   36   36   structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$12,59   36   36   36   structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$12,59   36   36   36   structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$13,49   36   36   36   structure   R12620   Structures   NorthMain134   WR   15   128000   Left   \$13,49   36   36   36   structure   R12620   | RT12545   |           |               |               |          |          |      |           |          |        |             |
| R12467   Structures   NorthMein134   WR   15   129441   Left   \$80,92   36   36   1 structure   R12464   Structures   NorthMein134   WR   15   129441   Left   \$80,92   36   36   1 structure   R12497   Structures   NorthMein134   WR   15   129441   Left   \$28,23   36   35   1 structure   R12497   Structures   NorthMein134   WR   15   128000   Left   \$7,77   36   35   1 structure   R12507   Structures   NorthMein134   WR   15   128000   Left   \$29,37   36   35   1 structure   R12507   Structures   NorthMein134   WR   15   128000   Left   \$29,37   36   35   1 structure   R12507   Structures   NorthMein134   WR   15   128000   Left   \$21,52   36   35   1 structure   R12510   Structures   NorthMein134   WR   15   128000   Left   \$34,16   36   35   1 structure   R12514   Structures   NorthMein134   WR   15   128000   Left   \$34,16   36   35   1 structure   R12514   Structures   NorthMein134   WR   15   128000   Left   \$35,17   36   34   1 structure   R12516   Structures   NorthMein134   WR   15   128000   Left   \$78,00   35   34   1 structure   R12516   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12614   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   32   31   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   32   31   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   32   31   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12620   Structures   NorthMein134   WR   15   128000   Left   \$78,00   36   35   1 structure   R12620   Structures   NorthMe  | R12457   Structures   NorthMain134   WR   15   129441   Left   \$80.92   36   35   Structures   R12447   Structures   NorthMain134   WR   15   129441   Left   \$28.23   36   35   Structures   R12447   Structures   NorthMain134   WR   15   128000   Left   \$20.97   36   35   Structures   R12501   Structures   NorthMain134   WR   15   128000   Left   \$20.97   36   35   Structures   R12501   Structures   NorthMain134   WR   15   128000   Left   \$20.97   36   35   Structures   R12500   Structures   NorthMain134   WR   15   128000   Left   \$20.37   36   35   Structures   R12500   Structures   NorthMain134   WR   15   128000   Left   \$20.37   36   35   Structures   R12510   Structures   NorthMain134   WR   15   128000   Left   \$34.16   36   35   Structures   R12510   Structures   NorthMain134   WR   15   128000   Left   \$34.16   36   35   Structures   R12510   Structures   NorthMain134   WR   15   128000   Left   \$34.16   36   35   Structures   R12510   Structures   NorthMain134   WR   15   128000   Left   \$35.17   35   34   Structures   R12510   Structures   NorthMain134   WR   15   128000   Left   \$35.17   35   34   Structures   R12510   Structures   NorthMain134   WR   15   128000   Left   \$26.92   36   35   Structures   R12510                   |           |               |               |          |          |      |           |          |        |             |
| R12494   Structures   NorthMain   34   WR   15   129401   Left   \$26,23   36   36   1 structure   R12490   Structures   NorthMain   134   WR   15   128000   Left   \$20,97   36   35   1 structure   R12500   Structures   NorthMain   134   WR   15   128000   Left   \$20,97   36   35   1 structure   R12500   Structures   NorthMain   134   WR   15   128000   Left   \$20,97   36   35   1 structure   R12510   Structures   NorthMain   134   WR   15   128000   Left   \$21,52   36   35   1 structure   R12510   Structures   NorthMain   134   WR   15   128000   Left   \$34,16   36   35   1 structure   R12510   Structures   NorthMain   134   WR   15   128000   Left   \$34,16   36   35   1 structure   R12515   Structures   NorthMain   134   WR   15   128000   Left   \$7,80   35   34   1 structure   R12515   Structures   NorthMain   134   WR   15   128000   Left   \$7,80   35   34   1 structure   R12516   Structures   NorthMain   134   WR   15   128000   Left   \$7,80   35   34   1 structure   R12516   Structures   NorthMain   134   WR   15   128000   Left   \$25,92   36   35   1 structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$25,92   36   36   1 structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$25,99   32   31   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$25,99   32   31   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$16,07   35   34   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$16,07   35   34   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$16,07   35   34   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$34,60   36   35   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$34,40   36   35   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$34,60   36   35   structure   R12620   Structures   NorthMain   134   WR   15   128000   Left   \$34,60   36   35    | RT12644   Structures   NorthMein134   IWR   15   129441   Left   \$28,23   36   36   35   structures   RT12697   Structures   NorthMein134   IWR   15   128000   Left   \$20,97   36   35   structures   RT12501   Structures   NorthMein134   IWR   15   128000   Left   \$20,97   36   35   structures   RT12501   Structures   NorthMein134   IWR   15   128000   Left   \$20,97   36   35   structures   RT12507   Structures   NorthMein134   IWR   15   128000   Left   \$21,52   36   36   35   structures   RT12510   Structures   NorthMein134   IWR   15   128000   Left   \$31,52   36   36   35   structures   RT12510   Structures   NorthMein134   IWR   15   128000   Left   \$31,99   35   34   structure   RT12515   Structures   NorthMein134   IWR   15   128000   Left   \$7,80   36   36   structures   RT12515   Structures   NorthMein134   IWR   15   128000   Left   \$7,80   36   34   structure   RT12515   Structures   NorthMein134   IWR   15   128000   Left   \$7,80   36   34   structure   RT12516   Structures   NorthMein134   IWR   15   128000   Left   \$35,17   35   34   structure   RT12614   Structures   NorthMein134   IWR   15   128000   Left   \$22,99   32   31   structure   RT12614   Structures   NorthMein134   IWR   15   128000   Left   \$22,99   32   31   structure   RT12612   Structures   NorthMein134   IWR   15   128000   Left   \$22,99   32   31   structure   RT12612   Structures   NorthMein134   IWR   15   128000   Left   \$22,99   32   31   structure   RT12612   Structures   NorthMein134   IWR   15   128000   Left   \$34,94   36   36   31   structure   RT12612   Structures   NorthMein134   IWR   15   128000   Left   \$34,94   36   36   31   structure   RT12612   Structures   NorthMein134   IWR   15   128000   Left   \$34,94   36   36   31   structure   RT12700   Structures   NorthMein134   IWR   15   128000   Left   \$34,94   36   36   36   structure   RT12700   Structures   NorthMein134   IWR   15   128000   Left   \$34,96   36   36   36   structure   RT12700   Structures   NorthMein134   IWR   15   128000   Left   \$34,90   36   3         |           |               |               |          |          |      |           |          |        |             |
| R12497   Structures   NorthMain134   IWR   15   128000 Left   \$7.77;   36   35   1 structure   R12500   Structures   NorthMain134   IWR   15   128000 Left   \$20.97;   36   35   1 structure   R12500   Structures   NorthMain134   IWR   15   128000 Left   \$29.37;   36   35   1 structure   R12507   Structures   NorthMain134   IWR   15   128000 Left   \$29.37;   36   35   1 structure   R12516   Structures   NorthMain134   IWR   15   128000 Left   \$34.16   36   35   1 structure   R12514   Structures   NorthMain134   IWR   15   128000 Left   \$11.99   35   34   1 structure   R12516   Structures   NorthMain134   IWR   15   128000 Left   \$17.80   35   34   1 structure   R12568   Structures   NorthMain134   IWR   15   128000 Left   \$33.517   35   34   1 structure   R12568   Structures   NorthMain134   IWR   15   128000 Left   \$36.92;   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.92;   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.92;   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.93;   32   31   structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.93;   32   31   structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.93;   32   31   structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.93;   32   31   structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.93;   32   31   structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$26.93;   36   35   structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$20.49   36   36   1 structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$34.94   36   36   1 structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$34.94   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15   128000 Left   \$34.94   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15     | R12497   Structures   NorthMein134   IWR   15   128000 Left   \$7.77   36   35   Structures   R12501   Structures   NorthMein134   IWR   15   128000 Left   \$29.97   36   35   Structures   R12506   Structures   NorthMein134   IWR   15   128000 Left   \$29.97   36   35   Structures   R12507   Structures   NorthMein134   IWR   15   128000 Left   \$29.97   36   35   Structures   R12510   Structures   NorthMein134   IWR   15   128000 Left   \$29.52   36   35   Structures   R12510   Structures   NorthMein134   IWR   15   128000 Left   \$34.16   36   35   Structures   R12515   Structures   NorthMein134   IWR   15   128000 Left   \$11.99   35   34   Structures   R12515   Structures   NorthMein134   IWR   15   128000 Left   \$7.80   35   34   Structures   R12515   Structures   NorthMein134   IWR   15   128000 Left   \$35.17   35   34   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$32.81   35   34   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$22.81   35   35   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$22.81   35   34   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$22.81   35   34   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$22.99   32   31   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$38.99   32   31   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$38.99   32   31   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$34.94   36   35   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$34.94   36   35   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$34.94   36   35   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$34.94   36   35   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$34.94   36   35   Structures   R12626   Structures   NorthMein134   IWR   15   128000 Left   \$34.94   3        |           |               |               |          |          |      |           |          |        |             |
| R12501   Structures   NorthMain134   IWR   15   128000   Left   \$29.97   36   35   1 structure   R12505   Structures   NorthMain134   IWR   15   128000   Left   \$29.37   36   35   1 structure   R12507   Structures   NorthMain134   IWR   15   128000   Left   \$21.52   36   35   1 structure   R12510   Structures   NorthMain134   IWR   15   128000   Left   \$34.16   36   35   1 structure   R12515   Structures   NorthMain134   IWR   15   128000   Left   \$34.16   36   35   1 structure   R12515   Structures   NorthMain134   IWR   15   128000   Left   \$34.19   35   34   1 structure   R12515   Structures   NorthMain134   IWR   15   128000   Left   \$34.57   36   34   1 structure   R12515   Structures   NorthMain134   IWR   15   128000   Left   \$35.77   35   34   1 structure   R12614   Structures   NorthMain134   IWR   15   128000   Left   \$26.92   36   35   1 structure   R12614   Structures   NorthMain134   IWR   15   128000   Left   \$26.92   36   35   1 structure   R12624   Structures   NorthMain134   IWR   15   128000   Left   \$25.99   32   31   1 structure   R12624   Structures   NorthMain134   IWR   15   128000   Left   \$25.99   32   31   1 structure   R12626   Structures   NorthMain134   IWR   15   128000   Left   \$16.07   35   34   1 structure   R12627   Structures   NorthMain134   IWR   15   128000   Left   \$16.07   35   34   1 structure   R12627   Structures   NorthMain134   IWR   15   128000   Left   \$1.7.70   35   34   1 structure   R12627   Structures   NorthMain134   IWR   15   128000   Left   \$1.04   36   35   1 structure   R12629   Structures   NorthMain134   IWR   15   128000   Left   \$1.1.26   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15   128000   Left   \$4.75   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   128000   Left   \$4.75   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   128000   Left   \$4.75   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   128000   Left   \$4.75   36   35   1 structure   R12700   S  | RT2501   Structures   NorthMain134   IWR   15   128000   Left   \$20,977   36   35   1 structure   RT2506   Structures   NorthMain134   IWR   15   124000   Left   \$29,977   36   35   1 structure   RT2507   Structures   NorthMain134   IWR   15   128000   Left   \$21,52   36   35   1 structure   RT2510   Structures   NorthMain134   IWR   15   128000   Left   \$34,16   36   35   1 structure   RT2514   Structures   NorthMain134   IWR   15   128000   Left   \$34,16   36   35   1 structure   RT2514   Structures   NorthMain134   IWR   15   128000   Left   \$34,16   36   35   1 structure   RT2515   Structures   NorthMain134   IWR   15   128000   Left   \$7,80   35   34   1 structure   RT2515   Structures   NorthMain134   IWR   15   128000   Left   \$35,17   35   34   1 structure   RT2616   Structures   NorthMain134   IWR   15   128000   Left   \$26,92   36   36   1 structure   RT2614   Structures   NorthMain134   IWR   15   128000   Left   \$26,92   36   36   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$26,99   32   31   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$20,99   32   31   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$17,70   35   34   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$17,70   35   34   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$12,04   36   35   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$12,04   36   35   1 structure   RT2620   Structures   NorthMain134   IWR   15   128000   Left   \$12,04   36   35   1 structure   RT2700   Structures   NorthMain134   IWR   15   128000   Left   \$34,04   36   35   1 structure   RT2700   Structures   NorthMain134   IWR   15   128000   Left   \$34,04   36   35   1 structure   RT2700   Structures   NorthMain134   IWR   15   128000   Left   \$34,04   36   35   1 structure   RT2700   Structures   NorthMain134   IWR   15   128000   Left   \$34,00   36   35   1 structure   RT2700         |           |               |               |          |          |      |           |          |        |             |
| R12506   Structures   NorthMain134   IWR   IS   124000   Left   \$29.37   36   35   1 structure   R12507   Structures   NorthMain134   IWR   IS   128000   Left   \$21.52   36   35   1 structure   R12510   Structures   NorthMain134   IWR   IS   128000   Left   \$21.52   36   35   1 structure   R12514   Structures   NorthMain134   IWR   IS   128000   Left   \$34.16   36   35   1 structure   R12515   Structures   NorthMain134   IWR   IS   128000   Left   \$7.80   35   34   1 structure   R12516   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   1 structure   R12568   Structures   NorthMain134   IWR   IS   128000   Left   \$26.92   36   33   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$26.92   36   33   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$25.99   32   31   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$25.99   32   31   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.94   36   35   1 structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   1 structure   R12703    | RT2506   Structures   NorthMain134   IWR   IS   124000   Left   329.37   36   35   Structures   RT2507   Structures   NorthMain134   IWR   IS   128000   Left   329.37   36   35   Structures   RT2510   Structures   NorthMain134   IWR   IS   128000   Left   534.16   36   35   Structures   RT2515   Structures   NorthMain134   IWR   IS   128000   Left   ST. 19.9   35   34   Structures   RT2515   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   34   Structures   RT2515   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   34   Structures   RT2515   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   34   Structures   RT2516   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   34   Structures   RT2614   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   35   Istructure   RT2620   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   32   37   Structures   RT2620   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   32   37   Structures   RT2620   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   35   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   36   35   Istructure   RT2600   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   36   35   Istructure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   ST. 90   36   35   Istructure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   ST. 94   36   35   Istructure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   ST. 94   36   35   Istructure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   ST. 94   36   35   Istructure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   ST. 94   36   35   Istructure   RT2700   Structures   NorthMain134   I                              |           |               |               |          |          |      |           |          |        |             |
| R12507   Structures   NorthMain134   IWR 15   128000   Left   \$21.52   36   35   1 structure   R12510   Structures   NorthMain134   IWR 15   128000   Left   \$34.16   36   35   1 structure   R12514   Structures   NorthMain134   IWR 15   128000   Left   \$34.16   36   35   1 structure   R12515   Structures   NorthMain134   IWR 15   128000   Left   \$7.80   35   34   1 structure   R12515   Structures   NorthMain134   IWR 15   128000   Left   \$35.17   35   34   1 structure   R12614   Structures   NorthMain134   IWR 15   128000   Left   \$26.51   35   34   1 structure   R12614   Structures   NorthMain134   IWR 15   128000   Left   \$26.51   35   34   1 structure   R12614   Structures   NorthMain134   IWR 15   128000   Left   \$26.52   36   35   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$26.59   32   37   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$25.99   32   37   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$25.99   32   37   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$20.49   36   35   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$3.89   32   31   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$3.49   36   35   1 structure   R12622   Structures   NorthMain134   IWR 15   128000   Left   \$3.49   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left   \$3.49   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left   \$3.40   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left   \$3.40   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left   \$3.40   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left   \$3.40   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left   \$3.40   36   35   1 structure   R12700   Structures   NorthMain134   IWR 15   128000   Left  | RT2507   Structures   NorthMain134   IWR   IS   128000   Left   \$21.52   36   35   1 structure   RT2510   Structures   NorthMain134   IWR   IS   128000   Left   \$34.16   36   35   1 structure   RT2514   Structures   NorthMain134   IWR   IS   128000   Left   \$34.16   36   35   34   1 structure   RT2515   Structures   NorthMain134   IWR   IS   128000   Left   \$7.80   35   34   1 structure   RT2515   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   1 structure   RT2516   Structures   NorthMain134   IWR   IS   128000   Left   \$26.92   36   35   35   1 structure   RT2614   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   1 structure   RT2620   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   1 structure   RT2642   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   1 structure   RT2642   Structures   NorthMain134   IWR   IS   128000   Left   \$25.99   32   31   1 structure   RT2642   Structures   NorthMain134   IWR   IS   128000   Left   \$37.77   35   34   1 structure   RT2642   Structures   NorthMain134   IWR   IS   128000   Left   \$37.00   35   34   1 structure   RT2642   Structures   NorthMain134   IWR   IS   128000   Left   \$39.89   32   31   1 structure   RT2642   Structures   NorthMain134   IWR   IS   128000   Left   \$39.89   32   31   1 structure   RT2644   Structures   NorthMain134   IWR   IS   128000   Left   \$30.49   36   35   structures   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   \$31.26   36   35   structure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   \$31.49   36   35   structure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   RT2700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   RT2700   St         |           |               |               |          |          |      |           |          |        |             |
| R12510   Structures   NorthMain134   IWR   IS   128000   Left   334.16   36   35   1 structure   R12514   Structures   NorthMain134   IWR   IS   128000   Left   \$7.80   35   34   1 structure   R12515   Structures   NorthMain134   IWR   IS   128000   Left   \$7.80   35   34   1 structure   R12568   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   1 structure   R12614   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   1 structure   R12624   Structures   NorthMain134   IWR   IS   128000   Left   \$35.99   32   37   1 structure   R12626   Structures   NorthMain134   IWR   IS   128000   Left   \$9.98   32   37   1 structure   R12626   Structures   NorthMain134   IWR   IS   128000   Left   \$9.98   32   37   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$9.98   32   37   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$9.98   32   37   1 structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.44   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.46   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   1 structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$40.01   36   35   1 structure   R12700   Stru   | R12510   Structures   NorthMain134   IWR   IS   128000   Left   \$34.16   36   35   structure   R12514   Structures   NorthMain134   IWR   IS   128000   Left   \$34.16   36   35   structure   R12515   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   structure   R12568   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   structure   R12614   Structures   NorthMain134   IWR   IS   128000   Left   \$35.17   35   34   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$22.81   35   34   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$35.99   32   31   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$35.99   32   31   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$32.99   32   31   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$10.07   35   34   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$30.49   36   35   structure   R12620   Structures   NorthMain134   IWR   IS   128000   Left   \$34.49   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.49   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.49   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.49   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.40   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   1         |           |               |               |          |          |      |           |          |        |             |
| R12514   Structures   NorthMain134   WR 15   126000   Left   \$11.99   35   34  1 structure   R12515   Structures   NorthMain134   WR 15   126000   Left   \$7.80   35   34  1 structure   R125614   Structures   NorthMain134   WR 15   126000   Left   \$35.17   35   34  1 structure   R12614   Structures   NorthMain134   WR 15   126000   Left   \$28.92   36   35   1 structure   R12614   Structures   NorthMain134   WR 15   126000   Left   \$28.92   36   35   1 structure   R12624   Structures   NorthMain134   WR 15   126000   Left   \$22.91   35   34   1 structure   R12624   Structures   NorthMain134   WR 15   126000   Left   \$25.99   32   31  1 structure   R12626   Structures   NorthMain134   WR 15   126000   Left   \$25.99   32   31  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$16.07   35   34  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$9.89   32   31  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$9.89   32   31  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$9.89   32   31  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$9.89   32   31  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$9.89   32   31  1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$34.94   36   35  1 structure   R12700   Structures   NorthMain134   WR 15   126000   Left   \$34.94   36   35  1 structure   R12701   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35  1 structure   R12702   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35  1 structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35  1 structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35  1 structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35  1 structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35  1 structure    | R12514   Structures   NorthMain134   WR   S   126000   Left   \$11.99   35   34   structure   R12568   Structures   NorthMain134   WR   S   126000   Left   \$7.80   35   34   structure   R12568   Structures   NorthMain134   WR   S   126000   Left   \$26.92   36   35   structure   R12614   Structures   NorthMain134   WR   S   126000   Left   \$26.92   36   35   structure   R12614   Structures   NorthMain134   WR   S   126000   Left   \$26.92   36   35   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$26.92   36   35   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$25.99   32   31   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$17.70   35   34   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$9.89   32   31   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$9.89   32   31   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$9.49   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$11.26   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.40   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R1        |           |               |               |          |          |      |           |          |        |             |
| R12515   Structures   NorthMain134   IWR   15   126000   Left   \$37.80   35   34   1 structure   R12568   Structures   NorthMain134   IWR   15   126000   Left   \$35.17   35   34   1 structure   R12620   Structures   NorthMain134   IWR   15   126000   Left   \$22.81   35   34   1 structure   R12620   Structures   NorthMain134   IWR   15   126000   Left   \$22.81   35   34   1 structure   R12620   Structures   NorthMain134   IWR   15   126000   Left   \$22.81   35   34   1 structure   R12647   Structures   NorthMain134   IWR   15   126000   Left   \$25.99   32   31   1 structure   R12647   Structures   NorthMain134   IWR   15   126000   Left   \$16.07   35   34   1 structure   R12626   Structures   NorthMain134   IWR   15   126000   Left   \$16.07   35   34   1 structure   R12626   Structures   NorthMain134   IWR   15   126000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   15   126000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR   15   126000   Left   \$10.00   36   35   1 structure   R12620   Structures   NorthMain134   IWR   15   126000   Left   \$30.49   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   126000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   126000   Left   \$34.54   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   126000   Left   \$34.50   36   35   1 structure   R12703   Structures   NorthMain134   IWR   15   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   15   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   15   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR   15   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR   15   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR   15   126000   Left   \$36.16   36   35   1 structure   R12706   | R12515   Structures   NorthMain134   IWR 1S   126000   Left   \$7.80   35   34   1 structure   R12568   Structures   NorthMain134   IWR 1S   126000   Left   \$35.17   35   34   1 structure   R12614   Structures   NorthMain134   IWR 1S   126000   Left   \$36.92   36   35   1 structure   R12620   Structures   NorthMain134   IWR 1S   126000   Left   \$22.81   35   34   1 structure   R12620   Structures   NorthMain134   IWR 1S   126000   Left   \$22.81   35   34   1 structure   R12642   Structures   NorthMain134   IWR 1S   126000   Left   \$22.81   35   34   1 structure   R12642   Structures   NorthMain134   IWR 1S   126000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR 1S   126000   Left   \$16.07   35   34   1 structure   R12620   Structures   NorthMain134   IWR 1S   126000   Left   \$10.07   35   34   1 structure   R12622   Structures   NorthMain134   IWR 1S   126000   Left   \$10.07   35   34   1 structure   R12622   Structures   NorthMain134   IWR 1S   126000   Left   \$10.07   36   35   1 structure   R12700   Structures   NorthMain134   IWR 1S   126000   Left   \$10.04   36   35   1 structure   R12700   Structures   NorthMain134   IWR 1S   126000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR 1S   126000   Left   \$34.50   36   35   1 structure   R12700   Structures   NorthMain134   IWR 1S   126000   Left   \$34.50   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   1260         |           |               |               |          |          |      |           |          |        |             |
| R12668   Structures   NorthMain134   WR 15   128000   Left   \$35.71   35   34    structure   R12614   Structures   NorthMain134   WR 15   128000   Left   \$22.81   35   34    structure   R12624   Structures   NorthMain134   WR 15   128000   Left   \$22.81   35   34    structure   R12642   Structures   NorthMain134   WR 15   128000   Left   \$22.81   35   34    structure   R12642   Structures   NorthMain134   WR 15   128000   Left   \$25.99   32   31    structure   R12642   Structures   NorthMain134   WR 15   128000   Left   \$16.07   35   34    structure   R12662   Structures   NorthMain134   WR 15   128000   Left   \$16.07   35   34    structure   R12662   Structures   NorthMain134   WR 15   128000   Left   \$3.89   32   31    structure   R12692   Structures   NorthMain134   WR 15   128000   Left   \$3.89   32   31    structure   R12697   Structures   NorthMain134   WR 15   128000   Left   \$3.89   32   33    structure   R12697   Structures   NorthMain134   WR 15   128000   Left   \$3.49   36   35    structure   R12700   Structures   NorthMain134   WR 15   128000   Left   \$3.49   36   35    structure   R12701   Structures   NorthMain134   WR 15   128000   Left   \$3.49   36   35    structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12708   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12708   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12708   Structures   NorthMain134   WR 15   128000   Left   \$3.46   36   35    structure   R12708   Stru | R12568   Structures   NorthMain134   WR 15   126000   Left   \$35.17   35   34   1 structure   R12614   Structures   NorthMain134   WR 15   126000   Left   \$28.92   36   35   1 structure   R12620   Structures   NorthMain134   WR 15   126000   Left   \$22.81   35   34   1 structure   R12622   Structures   NorthMain134   WR 15   126000   Left   \$25.99   32   31   1 structure   R12622   Structures   NorthMain134   WR 15   126000   Left   \$25.99   32   31   1 structure   R12622   Structures   NorthMain134   WR 15   126000   Left   \$16.07   35   34   1 structure   R12622   Structures   NorthMain134   WR 15   126000   Left   \$10.07   35   34   1 structure   R12622   Structures   NorthMain134   WR 15   126000   Left   \$10.07   35   34   1 structure   R12622   Structures   NorthMain134   WR 15   126000   Left   \$3.89   32   33   1 structure   R126292   Structures   NorthMain134   WR 15   126000   Left   \$3.89   32   33   1 structure   R12701   Structures   NorthMain134   WR 15   126000   Left   \$31.40   36   35   structure   R12701   Structures   NorthMain134   WR 15   126000   Left   \$34.75   36   35   structure   R12701   Structures   NorthMain134   WR 15   126000   Left   \$34.75   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR 15   126000   Left   \$39.01   36   35   structure   R12704   Structures   NorthMain134   WR 15   126000   Left   \$39.01   36   35   structure   R        |           |               |               |          |          |      |           |          |        |             |
| R12614   Structures   NorthMain134   WR   S   126000   Left   \$22.81   35   34   structure   R12620   Structures   NorthMain134   WR   S   126000   Left   \$22.81   35   34   structure   R12647   Structures   NorthMain134   WR   S   126000   Left   \$22.81   35   34   structure   R12647   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12647   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12672   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12672   Structures   NorthMain134   WR   S   126000   Left   \$20.49   36   35   structure   R12692   Structures   NorthMain134   WR   S   126000   Left   \$20.49   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$3.894   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$3.494   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$3.494   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$3.494   36   35   structure   R12702   Structures   NorthMain134   WR   S   126000   Left   \$3.494   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$3.494   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$3.460   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$3.460   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$3.460   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$3.460   36   35   structure   R12704   Structures   NorthMain134   WR   S   126000   Left   \$3.460   36   35   structure   R12704   Structures   NorthMain134   WR   S   126000   Left   \$3.460   36   35   structure   R12704   Structures   NorthMain134   WR   S   126000   Left   \$3.400   36   35   structure   R12704   Structures   NorthMain134   WR   S   126000   Left   \$3.400   36   35   structure  | R12614   Structures   NorthMain134   WR 1S   124000   Left   \$28,92   36   351   structures   R12620   Structures   NorthMain134   WR 1S   126000   Left   \$22,81   35   341   structure   R12642   Structures   NorthMain134   WR 1S   126000   Left   \$22,81   35   341   structure   R12642   Structures   NorthMain134   WR 1S   126000   Left   \$16,07   35   341   structure   R12642   Structures   NorthMain134   WR 1S   126000   Left   \$16,07   35   341   structure   R12620   Structures   NorthMain134   WR 1S   126000   Left   \$17,70   35   341   structure   R12620   Structures   NorthMain134   WR 1S   126000   Left   \$9,89   32   311   structure   R12620   Structures   NorthMain134   WR 1S   126000   Left   \$20,49   36   351   structure   R12620   Structures   NorthMain134   WR 1S   126000   Left   \$32,49   36   351   structure   R12700   Structures   NorthMain134   WR 1S   126000   Left   \$34,94   36   351   structure   R12700   Structures   NorthMain134   WR 1S   126000   Left   \$34,94   36   351   structure   R12702   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12702   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$34,60   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$36,16   36   351   structure   R12703   Structures   NorthMain134   WR 1S   126000   Left   \$36,16   36   351   structure   R12704   Structures   NorthMain134   WR 1S   126000   Left   \$36,16   36   351   structure         |           |               |               |          |          |      |           |          |        |             |
| R12620   Structures   NorthMain134   WR   S   126000   Left   \$22.811   35   34   structure   R12842   Structures   NorthMain134   WR   S   126000   Left   \$25.99   32   31   structure   R12847   Structures   NorthMain134   WR   S   126000   Left   \$25.99   32   31   structure   R12662   Structures   NorthMain134   WR   S   126000   Left   \$17.70   35   34   structure   R12662   Structures   NorthMain134   WR   S   126000   Left   \$17.70   35   34   structure   R12672   Structures   NorthMain134   WR   S   126000   Left   \$25.99   32   31   structure   R12692   Structures   NorthMain134   WR   S   126000   Left   \$20.49   36   35   structure   R12697   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12701   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$34.40   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12704   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$49.01   36   35   structure   R12706   Structures   NorthMain134   WR   S   128000   Left   \$49.01   36   35   structure   R12706   Structures   NorthMain134   WR   S   128000   Left   \$49.01   36   35   structure | R12620   Structures   NorthMain134   WR   15   126000   Left   \$22.81   35   341   structure   R12642   Structures   NorthMain134   WR   15   126000   Left   \$25.99   32   331   structure   R12642   Structures   NorthMain134   WR   15   126000   Left   \$16.07   35   341   structure   R12662   Structures   NorthMain134   WR   15   126000   Left   \$17.70   35   341   structure   R12662   Structures   NorthMain134   WR   15   126000   Left   \$17.70   35   341   structure   R12662   Structures   NorthMain134   WR   15   126000   Left   \$20.49   36   351   structure   R12672   Structures   NorthMain134   WR   15   126000   Left   \$20.49   36   351   structure   R12700   Structures   NorthMain134   WR   15   126000   Left   \$20.49   36   351   structure   R12700   Structures   NorthMain134   WR   15   126000   Left   \$34.94   36   351   structure   R12701   Structures   NorthMain134   WR   15   126000   Left   \$4.75   36   351   structure   R12701   Structures   NorthMain134   WR   15   126000   Left   \$4.75   36   351   structure   R12703   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12703   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12703   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12703   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12704   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12705   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12706   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12706   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12706   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12706   Structures   NorthMain134   WR   15   126000   Left   \$34.60   36   351   structure   R12706   Structures   NorthMain134   WR   15   1260         |           |               |               |          |          |      |           |          |        |             |
| R12642   Structures   NorthMain134   WR   S   126000   Left   \$26.59   32   31   structure   R12847   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12662   Structures   NorthMain134   WR   S   126000   Left   \$16.07   35   34   structure   R12672   Structures   NorthMain134   WR   S   12944   Left   \$17.70   35   34   structure   R12672   Structures   NorthMain134   WR   S   126000   Left   \$38.99   32   31   structure   R12697   Structures   NorthMain134   WR   S   126000   Left   \$38.99   32   31   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12700   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$26.16   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$26.16   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   126000   Left   \$34.60   36   35   structure   R12890   Structures   NorthMain134   WR   S   126000   Left   \$35.90   36   35   structure   | R12642   Structures   NorthMain134   WR   1S   126000   Left   \$26.99   32   31   1 structure   R12647   Structures   NorthMain134   WR   1S   126000   Left   \$16.07   35   34   1 structure   R12667   Structures   NorthMain134   WR   1S   126000   Left   \$16.07   35   34   1 structure   R12667   Structures   NorthMain134   WR   1S   126000   Left   \$9.89   32   31   1 structure   R12667   Structures   NorthMain134   WR   1S   126000   Left   \$9.89   32   31   1 structure   R12669   Structures   NorthMain134   WR   1S   126000   Left   \$9.89   32   31   1 structure   R12669   Structures   NorthMain134   WR   1S   126000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   WR   1S   126000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   WR   1S   126000   Left   \$34.94   36   35   1 structure   R12702   Structures   NorthMain134   WR   1S   126000   Left   \$34.40   36   35   1 structure   R12702   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12704   Structures   NorthMain134   WR   1S   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   WR   1S   126000   Left   \$36.60   36   35   1 structure   R12800   Structures   NorthMain134   WR   1S   126000   Left   \$30.40   36   35   1 structure   R12800   Structures   NorthMain         |           |               |               |          |          |      |           |          |        |             |
| R12647   Structures   NorthMain134   IWR 1S   128000   Left   \$16.07   35   34   structure   R12862   Structures   NorthMain134   IWR 1S   129441   Left   \$17.70   35   34   structure   R12672   Structures   NorthMain134   IWR 1S   128000   Left   \$9.89   32   31   structure   R12692   Structures   NorthMain134   IWR 1S   128000   Left   \$20.49   36   35   structure   R12692   Structures   NorthMain134   IWR 1S   128000   Left   \$11.26   36   35   structure   R12700   Structures   NorthMain134   IWR 1S   128000   Left   \$14.26   36   35   structure   R12701   Structures   NorthMain134   IWR 1S   128000   Left   \$4.75   36   35   structure   R12702   Structures   NorthMain134   IWR 1S   128000   Left   \$4.75   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.94   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   structure   R12704   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   structure   R12704   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   structure   R12804   Structures   NorthMain134   IWR 1S   128000   Left   \$5.00   36   35   structure   R12804   Structures   NorthMain134   IWR 1S   128000   Left   \$5.00   36   35   structure   R12 | R12647   Structures   NorthMain134   IWR   IS   128000   Left   \$16.07   35   34   1 structure   R12662   Structures   NorthMain134   IWR   IS   129441   Left   \$17.70   35   34   1 structure   R12672   Structures   NorthMain134   IWR   IS   128000   Left   \$9.89   32   31   I structure   R12692   Structures   NorthMain134   IWR   IS   128000   Left   \$9.89   32   31   I structure   R12697   Structures   NorthMain134   IWR   IS   128000   Left   \$12.049   36   35   I structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$11.26   36   35   I structure   R12700   Structures   NorthMain134   IWR   IS   128000   Left   \$4.75   36   35   I structure   R12701   Structures   NorthMain134   IWR   IS   128000   Left   \$4.75   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.60   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.00   36   35   I structure   R12703   Structures   NorthMain134   IWR   IS   128000   Left   \$34.00   36   35   I structure   R12708   Structures   NorthMain134   IWR   IS   128000   Left   \$49.01   36   35   I structure   R12708   Structures   NorthMain134   IWR   IS   128000   Left   \$49.01   36   35   I structure   R12708   Structures   NorthMain134   IWR   IS   128000   Left   \$49.01   36   35   I structure   R12800   Structures   NorthMain134   IWR   IS   128000   Left   \$49.01   36   35   I structure   R12800   Structures   NorthMain134   IWR   IS   128000   Left   \$5.90   36   35   I structure   R12800   Structures   NorthMain134   IWR   IS   128000   Left   \$5.90   36   35   I structure   R12800   Str         |           |               |               |          |          |      |           |          |        |             |
| R12662   Structures   NorthMain134   IWR 1S   129441   Left   \$17.70   35   34   1 structure   R12672   Structures   NorthMain134   IWR 1S   126000   Left   \$20.49   36   35   1 structure   R12697   Structures   NorthMain134   IWR 1S   126000   Left   \$20.49   36   35   1 structure   R12697   Structures   NorthMain134   IWR 1S   126000   Left   \$11.26   36   35   1 structure   R12600   Structures   NorthMain134   IWR 1S   126000   Left   \$34.94   36   35   1 structure   R12700   Structures   NorthMain134   IWR 1S   126000   Left   \$4.75   36   35   1 structure   R12701   Structures   NorthMain134   IWR 1S   126000   Left   \$4.75   36   35   1 structure   R12702   Structures   NorthMain134   IWR 1S   126000   Left   \$4.75   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   1 structure   R12805   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   1 structure   R12805   Structures   NorthMain134   IWR 1S   126000   Left   \$5.90   36   35   1 structure   R12805   Structures   NorthMain134   IWR 1S   126000   | R12862   Structures   NorthMain134   WR   S   129441   Left   \$17.70   35   34   Structures   R12872   Structures   NorthMain134   WR   S   128000   Left   \$9.89   32   31   Structures   R12697   Structures   NorthMain134   WR   S   128000   Left   \$20.49   36   35   Structures   R12697   Structures   NorthMain134   WR   S   128000   Left   \$11.26   36   35   Structures   R12697   Structures   NorthMain134   WR   S   128000   Left   \$11.26   36   35   Structures   R12700   Structures   NorthMain134   WR   S   128000   Left   \$11.26   36   35   Structures   R12701   Structures   NorthMain134   WR   S   128000   Left   \$4.75   36   35   Structures   R12702   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   Structures   R12702   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structures   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structures   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structures   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structures   R12703   Structures   NorthMain134   WR   S   128000   Left   \$30.10   36   35   Structures   R12704   Structures   NorthMain134   WR   S   128000   Left   \$30.01   36   35   Structures   R12704   Structures   NorthMain134   WR   S   128000   Left   \$49.01   36   35   Structures   R12704               |           |               |               |          |          |      |           |          |        |             |
| R12672   Structures   NorthMain134   IWR   IS   126000   Left   \$39.89   32   31   structure   R12692   Structures   NorthMain134   IWR   IS   126000   Left   \$20.49   36   35   structure   R12700   Structures   NorthMain134   IWR   IS   126000   Left   \$11.28   36   35   structure   R12701   Structures   NorthMain134   IWR   IS   126000   Left   \$34.94   36   35   structure   R12701   Structures   NorthMain134   IWR   IS   126000   Left   \$34.94   36   35   structure   R12701   Structures   NorthMain134   IWR   IS   126000   Left   \$34.75   36   35   structure   R12702   Structures   NorthMain134   IWR   IS   126000   Left   \$34.40   36   35   structure   R12703   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   structure   R12708   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   structure   R12708   Structures   NorthMain134   IWR   IS   126000   Left   \$9.01   36   35   structure   R12708   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   structure   R12708   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   structure   R12708   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   structure   R12706   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   structure   R12706   Structures   NorthMain134   IWR   IS   126000   Left   \$10.73   36   36   35   structure   R12890   Structures   NorthMain134   IWR   IS   126000   Left   \$10.73   36   36   35   structure   R12890   Structures   NorthMain134   IWR   IS   126000   Left   \$5.90   36   35   structure   R12900   Structures   NorthMain134   IWR   IS   126000   Left   \$5.90   36   35   structure   R12900   Structures   NorthMain134   IWR   IS   126000   Left   \$5.90   36   35   structure   R12900   Structures   NorthMain134   IWR     | R12672   Structures   NorthMain134   IWR   15   128000   Left   \$9.88   32   33   1   structure   R12692   Structures   NorthMain134   IWR   15   128000   Left   \$20.49   36   35   1   structure   R12700   Structures   NorthMain134   IWR   15   128000   Left   \$34.94   36   35   1   structure   R12701   Structures   NorthMain134   IWR   15   128000   Left   \$34.94   36   35   1   structure   R12701   Structures   NorthMain134   IWR   15   128000   Left   \$34.94   36   35   1   structure   R12702   Structures   NorthMain134   IWR   15   128000   Left   \$34.75   36   35   1   structure   R12703   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1   structure   R12703   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1   structure   R12703   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1   structure   R12705   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1   structure   R12708   Structures   NorthMain134   IWR   15   128000   Left   \$9.01   36   35   1   structure   R12708   Structures   NorthMain134   IWR   15   128000   Left   \$9.01   36   35   1   structure   R12708   Structures   NorthMain134   IWR   15   128000   Left   \$9.01   36   35   1   |           |               |               |          |          |      |           |          |        |             |
| R12692   Structures   NorthMain134   WR   S   128000   Left   \$20.49   36   35   structure   R12697   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12700   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12701   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$34.64   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$30.00   36   35   structure   R12713   Structures   NorthMain134   WR   S   128000   Left   \$49.01   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$30.40   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$30.40   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$10.73   36   35   structure   R12805   Structures   NorthMain134   WR   S   128000   Left   \$10.73   36   35   structure   R12809   Structures   NorthMain134   WR   S   128000   Left   \$10.73   36   35   structure   R12809   Structures   NorthMain134   WR   S   128000   Left   \$59.19   36   35   structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$59.19   36   35   structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$59.19   36   35   structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$59.19   36   35   structure  | R12692   Structures   NorthMain134   IWR   15   126000   Left   \$20.49   36   35   1 structure   R12697   Structures   NorthMain134   IWR   15   128000   Left   \$31.26   36   35   1 structure   R12700   Structures   NorthMain134   IWR   15   128000   Left   \$34.94   36   35   1 structure   R12701   Structures   NorthMain134   IWR   15   128000   Left   \$4.75   36   35   1 structure   R12702   Structures   NorthMain134   IWR   15   128000   Left   \$4.75   36   35   1 structure   R12702   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR   15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR   15   128000   Left   \$9.01   36   35   1 structure   R12704   Structures   NorthMain134   IWR   15   128000   Left   \$9.01   36   35   1 structure   R12704   Structures   NorthMain134   IWR   15   128000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   IWR   15   128000   Left   \$49.01   36   35   1 structure   R12706   Structures   NorthMain134   IWR   15   128000   Left   \$49.01   36   35   1 structure   R12802   Structures   NorthMain134   IWR   15   128000   Left   \$120.61   32   31   1 structure   R12802   Structures   NorthMain134   IWR   15   128000   Left   \$10.73   36   35   1 structure   R12802   Structures   NorthMain134   IWR   15   128000   Left   \$10.73   36   35   1 structure   R12802   Structures   NorthMain134   IWR   15   128000   Left   \$10.73   36   35   1 structure   R12900   Structures   NorthMain134   IWR   15   128000   Left   \$10.73   36   35   1 structure   R12900   Structures   NorthMain134   IWR   15   128000   Left   \$10.73   36   35   1 structure   R12900   Structures   NorthMain134   IWR   15   128000   Left   \$1.913   36   35   1 structure   R12900   S         |           |               |               |          |          |      |           |          | 34     | 1 structure |
| R12697   Structures   NorthMain134   WR   S   128000   Left   \$11.26   36   35   Structure   R12701   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12701   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$34.75   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12708   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   structure   R12708   Structures   NorthMain134   WR   S   128000   Left   \$9.01   36   35   structure   R12708   Structures   NorthMain134   WR   S   128000   Left   \$9.01   36   35   structure   R12713   Structures   NorthMain134   WR   S   128000   Left   \$49.01   36   35   structure   R12796   Structures   NorthMain134   WR   S   104000   Left   \$120.61   32   31   structure   R12796   Structures   NorthMain134   WR   S   128000   Left   \$120.61   32   31   structure   R12890   Structures   NorthMain134   WR   S   128000   Left   \$10.61   32   31   structure   R12890   Structures   NorthMain134   WR   S   128000   Left   \$10.61   32   31   structure   R12890   Structures   NorthMain134   WR   S   128000   Left   \$10.01   36   35   structure   R12990   Structures   NorthMain134   WR   S   128000   Left   \$10.01   36   35   structure   R12990   Structures   NorthMain134   WR   S   128000   Left   \$10.01   36   35   structure   R12990   Structures   NorthMain134   WR   S   128000   Left   \$10.01   36   35   structure   R12990   Structures   NorthMain134   WR   S   128000   Left   \$10.01   36   35   structure   R12990   Structures   NorthMain134   WR   S   128000   Left   \$10.01   36   35   structure  | R12697   Structures   NorthMain134   WR   S   128000   Left   \$11.26   36   35   Structure   R12700   Structures   NorthMain134   WR   S   128000   Left   \$34.94   36   35   Structure   R12701   Structures   NorthMain134   WR   S   128000   Left   \$4.75   36   35   Structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$4.75   36   35   Structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.40   36   35   Structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structure   R12703   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$34.60   36   35   Structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$9.01   36   35   Structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$9.01   36   35   Structure   R12705   Structures   NorthMain134   WR   S   128000   Left   \$9.01   36   35   Structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$9.01   36   35   Structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$38.48   32   31   Structure   R12702   Structures   NorthMain134   WR   S   128000   Left   \$120.61   32   31   Structure   R12802   Structures   NorthMain134   WR   S   128000   Left   \$10.73   36   35   Structure   R12802   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12802   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   WR   S   128000   Left   \$5.90   36   35   Structure   R12900   S        |           |               |               |          |          |      |           |          | 31     | 1 structure |
| R12700   Structures   NorthMain134   WR 15   128000   Left   \$34.94   36   35   1 structure   R12701   Structures   NorthMain134   WR 15   128000   Left   \$4.75   36   35   1 structure   R12702   Structures   NorthMain134   WR 15   128000   Left   \$4.75   36   35   1 structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$30.01   36   35   1 structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12713   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12702   Structures   NorthMain134   WR 15   104000   Left   \$49.01   36   35   1 structure   R12702   Structures   NorthMain134   WR 15   104000   Left   \$49.01   36   35   1 structure   R12702   Structures   NorthMain134   WR 15   102000   Left   \$40.01   32   31   1 structure   R12802   Structures   NorthMain134   WR 15   102000   Right   \$48.44   32   31   1 structure   R12802   Structures   NorthMain134   WR 15   128000   Left   \$10.73   36   35   1 structure   R12809   Structures   NorthMain134   WR 15   128000   Left   \$5.90   36   35   1 structure   R12800   Structures   NorthMain134   WR 15   128000   Left   \$5.90   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$5.90   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$5.90   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$5.90   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$5.10   32   31   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$5.10   32   31  | R12700   Structures   NorthMain134   WR   IS   128000   Left   \$34.94   36   35   Structure   R12701   Structures   NorthMain134   WR   IS   128000   Left   \$4.75   36   35   Structure   R12702   Structures   NorthMain134   WR   IS   128000   Left   \$13.44   36   35   Structure   R12703   Structures   NorthMain134   WR   IS   128000   Left   \$13.44   36   35   Structure   R12703   Structures   NorthMain134   WR   IS   128000   Left   \$34.60   36   35   Structure   R12703   Structures   NorthMain134   WR   IS   128000   Left   \$34.60   36   35   Structure   R12705   Structures   NorthMain134   WR   IS   128000   Left   \$26.16   36   35   Structure   R12708   Structures   NorthMain134   WR   IS   128000   Left   \$26.16   36   35   Structure   R12713   Structures   NorthMain134   WR   IS   128000   Left   \$49.01   36   35   Structure   R12706   Structures   NorthMain134   WR   IS   128000   Left   \$49.01   36   35   Structure   R12706   Structures   NorthMain134   WR   IS   128000   Left   \$38.48   32   31   Structure   R12706   Structures   NorthMain134   WR   IS   128000   Left   \$38.48   32   31   Structure   R12800   Structures   NorthMain134   WR   IS   128000   Left   \$38.48   32   31   Structure   R12800   Structures   NorthMain134   WR   IS   128000   Left   \$12.061   32   31   Structure   R12800   Structures   NorthMain134   WR   IS   128000   Left   \$10.73   36   35   Structure   R12800   Structures   NorthMain134   WR   IS   128000   Left   \$59.19   36   35   Structure   R12800   Structures   NorthMain134   WR   IS   128000   Left   \$13.01   36   35   Structure   R12900   Structures   NorthMain134   WR   IS   128000   Left   \$19.13   36   35   Structure   R12900   Structures   NorthMain134   WR   IS   128000   Left   \$13.01   36   35   Structure   R12900   Structures   NorthMain134   WR   IS   128000   Left   \$19.13   36   35   Structure   R12900   Structures   NorthMain134   WR   IS   128000   Left   \$19.13   36   35   Structure   R12900   Structures   NorthMain134   WR   IS   128000   Left   \$19.13         |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12701   Structures   NorthMain134   WR 15   128000   Left   \$34.75   36   35   1 structure   R12702   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$28.16   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12705   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12706   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12706   Structures   NorthMain134   WR 15   128000   Left   \$49.01   36   35   1 structure   R12906   Structures   NorthMain134   WR 15   128000   Left   \$38.48   32   31   1 structure   R12800   Structures   NorthMain134   WR 15   128000   Left   \$120.61   32   31   1 structure   R12800   Structures   NorthMain134   WR 15   128000   Left   \$10.73   36   35   1 structure   R12800   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12800   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$59.01   36   35   1 structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$59.01   | R12701   Structures   NorthMain134   IWR   S   128000   Left   \$4.75   36   35   structure   R12702   Structures   NorthMain134   IWR   S   128000   Left   \$13.44   36   35   structure   R12703   Structures   NorthMain134   IWR   S   128000   Left   \$34.60   36   35   structure   R12703   Structures   NorthMain134   IWR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   IWR   S   128000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   IWR   S   128000   Left   \$26.16   36   35   structure   R12708   Structures   NorthMain134   IWR   S   128000   Left   \$9.01   36   35   structure   R12708   Structures   NorthMain134   IWR   S   128000   Left   \$49.01   36   35   structure   R12702   Structures   NorthMain134   IWR   S   128000   Left   \$49.01   36   35   structure   R12702   Structures   NorthMain134   IWR   S   128000   Left   \$49.01   36   35   structure   R12702   Structures   NorthMain134   IWR   S   128000   Left   \$38.48   32   31   structure   R12802   Structures   NorthMain134   IWR   S   128000   Left   \$120.61   32   31   structure   R12809   Structures   NorthMain134   IWR   S   128000   Left   \$10.73   36   35   structure   R12809   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12809   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12800   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12900   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12900   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12900   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12900   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12900   Structures   NorthMain134   IWR   S   128000   Left   \$59.09   36   35   structure   R12900   Structures   NorthMain134   IWR   S   128000   Left   \$59.09          |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12702   Structures   NorthMain134   IWR 1S   128000   Left   \$13.44   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   1 structure   R12708   Structures   NorthMain134   IWR 1S   128000   Left   \$9.01   36   35   1 structure   R12708   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   1 structure   R12713   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   1 structure   R12729   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   36   31   1 structure   R127296   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   36   31   1 structure   R12895   Structures   NorthMain134   IWR 1S   128000   Left   \$120.61   32   31   1 structure   R12895   Structures   NorthMain134   IWR 1S   128000   Left   \$10.01   32   31   1 structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$10.01   36   35   1 structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$5.71   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$5.71   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S  | R12702   Structures   NorthMain134   IWR 1S   128000   Left   \$13.44   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   128000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   128000   Left   \$36.16   36   35   1 structure   R12708   Structures   NorthMain134   IWR 1S   128000   Left   \$9.01   36   35   1 structure   R12713   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   1 structure   R12782   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   1 structure   R12782   Structures   NorthMain134   IWR 1S   128000   Left   \$49.01   36   35   1 structure   R12785   Structures   NorthMain134   IWR 1S   128000   Left   \$120.61   32   31   1 structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$120.61   32   31   1 structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$10.73   36   35   1 structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   1 structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   36   35   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Le         |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   Structure   R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   Structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$26.16   36   35   Structure   R12708   Structures   NorthMain134   IWR 1S   126000   Left   \$9.01   36   35   Structure   R12713   Structures   NorthMain134   IWR 1S   126000   Left   \$9.01   36   35   Structure   R12713   Structures   NorthMain134   IWR 1S   126000   Left   \$49.01   36   35   Structure   R12792   Structures   NorthMain134   IWR 1S   104000   Left   \$38.48   32   31   Structure   R12792   Structures   NorthMain134   IWR 1S   102000   Left   \$120.61   32   31   Structure   R12892   Structures   NorthMain134   IWR 1S   102000   Right   \$48.44   32   31   Structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$10.73   36   35   Structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   Structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   Structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$1.073   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   Structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.09   36   35   Structure   R12900    | R12703   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   1 structure   R12703   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR   IS   126000   Left   \$26.16   36   35   1 structure   R12705   Structures   NorthMain134   IWR   IS   126000   Left   \$26.16   36   35   1 structure   R12708   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   1 structure   R12713   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   1 structure   R12782   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   1 structure   R12782   Structures   NorthMain134   IWR   IS   126000   Left   \$10.61   32   31   1 structure   R12892   Structures   NorthMain134   IWR   IS   126000   Left   \$10.61   32   31   1 structure   R12890   Structures   NorthMain134   IWR   IS   126000   Left   \$10.73   36   35   1 structure   R12890   Structures   NorthMain134   IWR   IS   128000   Left   \$59.19   36   35   1 structure   R12899   Structures   NorthMain134   IWR   IS   128000   Left   \$59.19   36   35   1 structure   R12902   Structures   NorthMain134   IWR   IS   128000   Left   \$59.19   36   35   1 structure   R12902   Structures   NorthMain134   IWR   IS   128000   Left   \$59.19   36   35   1 structure   R12904   Structures   NorthMain134   IWR   IS   128000   Left   \$59.19   36   35   1 structure   R12904   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12900   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12900   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12900   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12900   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12900   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   35   1 structure   R13033   Structure         |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12703   Structures   NorthMain134   IWR   IS   126000   Left   \$34.60   36   35   structure   R12705   Structures   NorthMain134   IWR   IS   126000   Left   \$26.16   36   35   structure   R12708   Structures   NorthMain134   IWR   IS   128000   Left   \$9.01   36   35   structure   R12713   Structures   NorthMain134   IWR   IS   128000   Left   \$9.01   36   35   structure   R12713   Structures   NorthMain134   IWR   IS   126000   Left   \$49.01   36   35   structure   R127182   Structures   NorthMain134   IWR   IS   104000   Left   \$33.48   32   31   structure   R12796   Structures   NorthMain134   IWR   IS   126000   Left   \$120.61   32   31   structure   R12796   Structures   NorthMain134   IWR   IS   128000   Left   \$10.73   36   35   structure   R12890   Structures   NorthMain134   IWR   IS   128000   Left   \$59.00   36   35   structure   R12892   Structures   NorthMain134   IWR   IS   128000   Left   \$59.00   36   35   structure   R12899   Structures   NorthMain134   IWR   IS   128000   Left   \$59.00   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.00   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.00   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$50.10   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$6.16   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.10   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.10   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.10   32   31   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.10   32   31   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.10   32   31   structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$59.10   36   35   structure   R12906   Structures   NorthMain134   IWR   IS   12  | R12703   Structures   NorthMain134   IWR 1S   126000   Left   \$34.60   36   35   1 structure   R12705   Structures   NorthMain134   IWR 1S   126000   Left   \$26.16   36   35   1 structure   R12708   Structures   NorthMain134   IWR 1S   126000   Left   \$9.01   36   35   1 structure   R12708   Structures   NorthMain134   IWR 1S   126000   Left   \$9.01   36   35   1 structure   R12713   Structures   NorthMain134   IWR 1S   112624   Left   \$49.01   36   35   1 structure   R12706   Structures   NorthMain134   IWR 1S   112624   Left   \$49.01   36   35   1 structure   R12706   Structures   NorthMain134   IWR 1S   126000   Left   \$338.48   32   31   1 structure   R12706   Structures   NorthMain134   IWR 1S   126000   Left   \$10.73   36   35   1 structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$10.73   36   35   1 structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.10   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.10   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.10   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left         |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12705   Structures   NorthMain134   IWR   1S   126000   Left   \$26.16   36   35   structures   R12708   Structures   NorthMain134   IWR   1S   128000   Left   \$9.01   36   35   structures   R12713   Structures   NorthMain134   IWR   1S   128000   Left   \$49.01   36   35   structures   R12782   Structures   NorthMain134   IWR   1S   126000   Left   \$49.01   36   35   structures   R12782   Structures   NorthMain134   IWR   1S   126000   Left   \$120.61   32   31   structure   R12796   Structures   NorthMain134   IWR   1S   126000   Left   \$120.61   32   31   structure   R12852   Structures   NorthMain134   IWR   1S   126000   Left   \$10.73   36   35   structures   R12890   Structures   NorthMain134   IWR   1S   128000   Left   \$10.73   36   35   structure   R12890   Structures   NorthMain134   IWR   1S   128000   Left   \$5.90   36   35   structure   R12899   Structures   NorthMain134   IWR   1S   128000   Left   \$5.90   36   35   structure   R12902   Structures   NorthMain134   IWR   1S   128000   Left   \$5.90   36   35   structure   R12906   Structures   NorthMain134   IWR   1S   128000   Left   \$6.16   36   35   structure   R12906   Structures   NorthMain134   IWR   1S   128000   Left   \$6.16   36   35   structure   R12940   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R12980   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R12980   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   structure   R13003   Structures   NorthMain134   IWR   1S   128000   Left   \$6.09   36   35   structure   R13003   Structures   NorthMain134   IWR   1S   128000    | R12705   Structures   NorthMain134   IWR 1S   128000   Left   \$9.01   36   35   1 structure   R12708   Structures   NorthMain134   IWR 1S   128000   Left   \$9.01   36   35   1 structure   R12713   Structures   NorthMain134   IWR 1S   128000   Left   \$9.01   36   35   1 structure   R12713   Structures   NorthMain134   IWR 1S   128000   Left   \$9.01   36   35   1 structure   R12782   Structures   NorthMain134   IWR 1S   104000   Left   \$38.48   32   31   1 structure   R12796   Structures   NorthMain134   IWR 1S   126000   Left   \$120.61   32   31   1 structure   R12895   Structures   NorthMain134   IWR 1S   128000   Left   \$120.61   32   31   1 structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$10.73   36   35   1 structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$59.91   36   35   1 structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$59.91   36   35   1 structure   R12902   Structures   NorthMain134   IWR 1S   128000   Left   \$59.91   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$13.01   36   35   1 structure   R12901   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.10   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.10   36   35   1 structure   R13033   Structures   NorthMain134   IWR 1S   128000   Left          |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12708   Structures   NorthMain134   WR 15   128000   Left   \$9.01   36   35   structure   R12713   Structures   NorthMain134   WR 15   112624   Left   \$49.01   36   35   structure   R12782   Structures   NorthMain134   WR 15   104000   Left   \$38.48   32   31   structure   R12796   Structures   NorthMain134   WR 15   128000   Left   \$120.61   32   31   structure   R12852   Structures   NorthMain134   WR 15   102000   Right   \$48.44   32   31   structure   R12890   Structures   NorthMain134   WR 15   128000   Left   \$10.73   36   35   structure   R12890   Structures   NorthMain134   WR 15   128000   Left   \$59.09   36   35   structure   R12890   Structures   NorthMain134   WR 15   128000   Left   \$59.19   36   35   structure   R12890   Structures   NorthMain134   WR 15   128000   Left   \$59.19   36   35   structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$61.6   36   35   structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$61.6   36   35   structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$61.6   36   35   structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$61.6   36   35   structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$61.6   36   35   structure   R12900   Structures   NorthMain134   WR 15   128000   Left   \$60.8   36   35   structure   R12960   Structures   NorthMain134   WR 15   128000   Left   \$51.0   32   31   structure   R12960   Structures   NorthMain134   WR 15   128000   Left   \$51.0   32   31   structure   R12980   Structures   NorthMain134   WR 15   128000   Left   \$51.4   36   35   structure   R12980   Structures   NorthMain134   WR 15   128000   Left   \$57.10   36   35   structure   R12980   Structures   NorthMain134   WR 15   128000   Left   \$57.10   36   35   structure   R13033   Structures   NorthMain134   WR 15   128000   Left   \$57.49   35   34   structure   R13033   Structures   NorthMain134   WR 15   128000   Left   \$57.49   35   34   structure   R13103   Structures   NorthM | R12708   Structures   NorthMain134   WR   1S   128000   Left   \$9,01   36   35   1 structure   R12713   Structures   NorthMain134   WR   1S   128000   Left   \$9,01   36   35   1 structure   R12782   Structures   NorthMain134   WR   1S   104000   Left   \$38.48   32   31   1 structure   R12796   Structures   NorthMain134   WR   1S   128000   Left   \$120.61   32   31   1 structure   R12852   Structures   NorthMain134   WR   1S   128000   Left   \$10.73   36   35   1 structure   R12890   Structures   NorthMain134   WR   1S   128000   Left   \$10.73   36   35   1 structure   R12899   Structures   NorthMain134   WR   1S   128000   Left   \$59.0   36   35   1 structure   R12899   Structures   NorthMain134   WR   1S   128000   Left   \$59.0   36   35   1 structure   R12890   Structures   NorthMain134   WR   1S   128000   Left   \$59.19   36   35   1 structure   R12990   Structures   NorthMain134   WR   1S   128000   Left   \$59.19   36   35   1 structure   R12900   Structures   NorthMain134   WR   1S   128000   Left   \$59.19   36   35   1 structure   R12900   Structures   NorthMain134   WR   1S   128000   Left   \$6.16   36   35   1 structure   R12990   Structures   NorthMain134   WR   1S   128000   Left   \$6.16   36   35   1 structure   R12990   Structures   NorthMain134   WR   1S   128000   Left   \$6.08   36   35   1 structure   R12990   Structures   NorthMain134   WR   1S   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   WR   1S   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   WR   1S   128000   Left   \$5.10   32   31   1 structure   R12986   Structures   NorthMain134   WR   1S   128000   Left   \$5.71   36   35   1 structure   R12986   Structures   NorthMain134   WR   1S   128000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   WR   1S   128000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   WR   1S   128000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   WR           |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12713   Structures   NorthMain134   IWR 15   112624   Left   \$49.01   36   35   1 structure   R12782   Structures   NorthMain134   IWR 15   104000   Left   \$38.48   32   31   1 structure   R12796   Structures   NorthMain134   IWR 15   126000   Left   \$120.61   32   31   1 structure   R12796   Structures   NorthMain134   IWR 15   102000   Right   \$48.44   32   31   1 structure   R12890   Structures   NorthMain134   IWR 15   102000   Left   \$10.73   36   35   1 structure   R12892   Structures   NorthMain134   IWR 15   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR 15   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR 15   128000   Left   \$5.90   36   35   1 structure   R12990   Structures   NorthMain134   IWR 15   128000   Left   \$10.73   36   35   1 structure   R12906   Structures   NorthMain134   IWR 15   128000   Left   \$1.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR 15   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR 15   128000   Left   \$6.08   36   35   1 structure   R12940   Structures   NorthMain134   IWR 15   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 15   128000   Left   \$6.08   36   35   1 structure   R12969   Structures   NorthMain134   IWR 15   128000   Left   \$2.08   36   35   1 structure   R12984   Structures   NorthMain134   IWR 15   126000   Left   \$2.08   36   35   1 structure   R12986   Structures   NorthMain134   IWR 15   126000   Left   \$2.08   36   35   1 structure   R13008   Structures   NorthMain134   IWR 15   128000   Left   \$2.08   36   35   1 structure   R13003   Structures   NorthMain134   IWR 15   128000   Left   \$2.09   36   35   1 structure   R13003   Structures   NorthMain134   IWR 15   128000   Left   \$2.09   36   35   1 structure   R13118   Structures   NorthMain134   IWR 15   128000   Left   \$2.09   36   35   1 structure   R13118   Structures   NorthMain134   IWR 15   128000   Left     | R12713   Structures   NorthMain134   WR   1S   112624   Left   \$49.01   36   35   1 structure   R12782   Structures   NorthMain134   WR   1S   104000   Left   \$38.48   32   31   1 structure   R12796   Structures   NorthMain134   WR   1S   126000   Left   \$120.61   32   31   1 structure   R12796   Structures   NorthMain134   WR   1S   126000   Left   \$120.61   32   31   1 structure   R12892   Structures   NorthMain134   WR   1S   102000   Right   \$48.44   32   31   1 structure   R12890   Structures   NorthMain134   WR   1S   128000   Left   \$5.90   36   35   1 structure   R12892   Structures   NorthMain134   WR   1S   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   WR   1S   128000   Left   \$5.90   36   35   1 structure   R12902   Structures   NorthMain134   WR   1S   128000   Left   \$5.90   36   35   1 structure   R12902   Structures   NorthMain134   WR   1S   128000   Left   \$5.90   36   35   1 structure   R12904   Structures   NorthMain134   WR   1S   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   WR   1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   WR   1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   WR   1S   128000   Left   \$5.00   36   35   1 structure   R12960   Structures   NorthMain134   WR   1S   128000   Left   \$5.10   32   31   1 structure   R12964   Structures   NorthMain134   WR   1S   126000   Left   \$5.10   32   31   1 structure   R12964   Structures   NorthMain134   WR   1S   126000   Left   \$5.10   32   31   1 structure   R12966   Structures   NorthMain134   WR   1S   126000   Left   \$5.10   35   35   1 structure   R12968   Structures   NorthMain134   WR   1S   126000   Left   \$5.10   35   35   1 structure   R13003   Structures   NorthMain134   WR   1S   126000   Left   \$5.10   35   35   1 structure   R13003   Structures   NorthMain134   WR   1S   128000   Left   \$5.10   35   35   1 structure   R13003   Structures   NorthMain134   WR           |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12782   Structures   NorthMain134   IWR 15   104000   Left   \$38.48   32   31   structure   R12796   Structures   NorthMain134   IWR 15   126000   Left   \$120.61   32   31   structure   R12852   Structures   NorthMain134   IWR 15   102000   Right   \$48.44   32   31   structure   R12890   Structures   NorthMain134   IWR 15   128000   Left   \$10.73   36   35   structure   R12890   Structures   NorthMain134   IWR 15   128000   Left   \$5.90   36   35   structure   R12899   Structures   NorthMain134   IWR 15   128000   Left   \$5.90   36   35   structure   R12890   Structures   NorthMain134   IWR 15   128000   Left   \$5.90   36   35   structure   R12902   Structures   NorthMain134   IWR 15   128000   Left   \$1.301   36   35   structure   R12906   Structures   NorthMain134   IWR 15   128000   Left   \$6.16   36   35   structure   R12906   Structures   NorthMain134   IWR 15   128000   Left   \$6.16   36   35   structure   R12940   Structures   NorthMain134   IWR 15   128000   Left   \$1.301   36   35   structure   R12940   Structures   NorthMain134   IWR 15   128000   Left   \$1.301   36   35   structure   R12960   Structures   NorthMain134   IWR 15   128000   Left   \$1.301   36   35   structure   R12960   Structures   NorthMain134   IWR 15   128000   Left   \$5.10   32   31   structure   R12960   Structures   NorthMain134   IWR 15   128000   Left   \$29.88   36   35   structure   R12980   Structures   NorthMain134   IWR 15   128000   Left   \$29.88   36   35   structure   R12980   Structures   NorthMain134   IWR 15   128000   Left   \$1.48   36   35   structure   R12993   Structures   NorthMain134   IWR 15   128000   Left   \$1.48   36   35   structure   R13008   Structures   NorthMain134   IWR 15   128000   Left   \$1.48   36   35   structure   R13008   Structures   NorthMain134   IWR 15   128000   Left   \$1.48   36   35   structure   R13033   Structures   NorthMain134   IWR 15   128000   Left   \$1.49   36   35   structure   R13033   Structures   NorthMain134   IWR 15   128000   Left   \$1.29   36   35   structure   R13118   | R12782   Structures   NorthMain134   IWR   IS   104000   Left   \$38.48   32   31   1 structure   R12796   Structures   NorthMain134   IWR   IS   126000   Left   \$120.61   32   31   1 structure   R12892   Structures   NorthMain134   IWR   IS   122000   Right   \$48.44   32   31   1 structure   R12890   Structures   NorthMain134   IWR   IS   122000   Left   \$10.73   36   35   1 structure   R12892   Structures   NorthMain134   IWR   IS   122000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR   IS   122000   Left   \$5.919   36   35   1 structure   R12899   Structures   NorthMain134   IWR   IS   122000   Left   \$13.01   36   35   1 structure   R12900   Structures   NorthMain134   IWR   IS   122000   Left   \$13.01   36   35   1 structure   R12900   Structures   NorthMain134   IWR   IS   122000   Left   \$13.01   36   35   1 structure   R12917   Structures   NorthMain134   IWR   IS   122000   Left   \$6.16   36   35   1 structure   R12940   Structures   NorthMain134   IWR   IS   122000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   IS   122000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   IS   122000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR   IS   122000   Left   \$5.10   32   31   1 structure   R12984   Structures   NorthMain134   IWR   IS   122000   Left   \$22.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   122000   Left   \$5.71   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   122000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   IWR   IS   122000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   IWR   IS   122000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   IWR   IS   122000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   IWR   IS   122000   Left   \$5.74   36   35   1 structure   R13003   Structur         |           |               |               |          |          |      |           |          | 35     | 1 structure |
| R12796   Structures   NorthMain134   IWR   IS   126000   Left   \$120.61   32   33   1 structure   R12852   Structures   NorthMain134   IWR   IS   102000   Right   \$48.44   32   31   1 structure   R12890   Structures   NorthMain134   IWR   IS   128000   Left   \$10.73   36   35   1 structure   R12892   Structures   NorthMain134   IWR   IS   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR   IS   128000   Left   \$5.919   36   35   1 structure   R12902   Structures   NorthMain134   IWR   IS   128000   Left   \$5.919   36   35   1 structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$6.16   36   35   1 structure   R12907   Structures   NorthMain134   IWR   IS   128000   Left   \$6.08   36   35   1 structure   R12907   Structures   NorthMain134   IWR   IS   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR   IS   126000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   IS   126000   Left   \$24.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR   IS   126000   Left   \$14.18   36   35   1 structure   R13033   Structures   NorthMain134   IWR   IS   128000   Left   \$14.18   36   35   1 structure   R13032   Structures   NorthMain134   IWR   IS   128000   Left   \$14.18   36   35   1 structure   R13033   Structures   NorthMain134   IWR   IS   128000   Left   \$14.18   36   35   1 structure   R13037   Structures   NorthMain134   IWR   IS   128000   Left   \$14.19   36   35   1 structure   R13118   Structures   NorthMain134   IWR   IS   128000   Left   \$12.90   36   35   1 structure   R13118   S  | R12796   Structures   NorthMain134   IWR 1S   126000   Left   \$120.61   32   31   structure   R12852   Structures   NorthMain134   IWR 1S   102000   Right   \$48.44   32   31   structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$10.73   36   35   structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$59.90   36   35   structure   R12902   Structures   NorthMain134   IWR 1S   128000   Left   \$59.19   36   35   structure   R12902   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   structure   R12900   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$19.13   36   35   structure   R12940   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$5.10   32   31   structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$5.70   32   31   structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$5.71   36   35   structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$5.71   36   35   structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$5.71   36   35   structure   R13003   Structures   NorthMain134   IWR 1S   128000   Left   \$5.71   36   35   structure   R13003   Structures   NorthMain134   IWR 1S   128000   Left   \$5.71   36   35   structure   R13003   Structures   NorthMain134   IWR 1S   128000   Left   \$5.71   36   35   structure   R13075   Structures   NorthMain134   IWR 1S   128000   Left   \$5.79   36   35   structure   R13108   Structures   NorthMain134   IWR 1S   128000   Left   \$5.79   36   35   structure   R13100   St        |           |               |               |          |          |      |           |          |        |             |
| R12852   Structures   NorthMain134   IWR_1S   102000   Right   \$48.44   32   31   structure   R12890   Structures   NorthMain134   IWR_1S   128000   Left   \$10.73   36   35   1 structure   R12899   Structures   NorthMain134   IWR_1S   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR_1S   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR_1S   128000   Left   \$5.90   36   35   1 structure   R12906   Structures   NorthMain134   IWR_1S   128000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR_1S   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR_1S   128000   Left   \$6.08   36   35   1 structure   R12940   Structures   NorthMain134   IWR_1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR_1S   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR_1S   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR_1S   126000   Left   \$24.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR_1S   126000   Left   \$24.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR_1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR_1S   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR_1S   128000   Left   \$14.18   36   35   1 structure   R13032   Structures   NorthMain134   IWR_1S   128000   Left   \$14.18   36   35   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$12.85   31   30   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13160   Structures   NorthMain134   IWR_1S   128000   Left    | R12852   Structures   NorthMain134   IWR 1S   102000   Right   \$48.44   32   31   structure   R12890   Structures   NorthMain134   IWR 1S   128000   Left   \$10.73   36   35   structure   R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   structure   R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   structure   R12902   Structures   NorthMain134   IWR 1S   128000   Left   \$13.01   36   35   structure   R12902   Structures   NorthMain134   IWR 1S   124000   Left   \$13.01   36   35   structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$6.06   36   35   structure   R12940   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   structure   R12960   Structures   NorthMain134   IWR 1S   124000   Left   \$24.63   36   35   structure   R12964   Structures   NorthMain134   IWR 1S   124000   Left   \$24.63   36   35   structure   R12986   Structures   NorthMain134   IWR 1S   128000   Left   \$29.88   36   35   structure   R12993   Structures   NorthMain134   IWR 1S   128000   Left   \$5.71   36   35   structure   R13030   Structures   NorthMain134   IWR 1S   128000   Left   \$14.18   36   35   structure   R13032   Structures   NorthMain134   IWR 1S   128000   Left   \$14.90   36   35   structure   R13037   Structures   NorthMain134   IWR 1S   128000   Left   \$2.85   31   30   structure   R13037   Structures   NorthMain134   IWR 1S   128000   Left   \$2.85   31   30   structure   R13037   Structures   NorthMain134   IWR 1S   128000   Left   \$2.85   31   30   structure   R13130   Structures   NorthMain134   IWR 1S   128000   Left   \$2.85   31   30   structure   R13130   Structures   NorthMain134   IWR 1S   128000   Left   \$2.471   36   35   structure   R13130           |           |               |               |          |          |      |           |          |        |             |
| R12890   Structures   NorthMain134   IWR_1S   128000   Left   \$10.73   36   35   1 structure   R12892   Structures   NorthMain134   IWR_1S   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR_1S   128000   Left   \$5.90   36   35   1 structure   R12902   Structures   NorthMain134   IWR_1S   128000   Left   \$13.01   36   35   1 structure   R12902   Structures   NorthMain134   IWR_1S   128000   Left   \$13.01   36   35   1 structure   R12907   Structures   NorthMain134   IWR_1S   128000   Left   \$19.13   36   35   1 structure   R12917   Structures   NorthMain134   IWR_1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR_1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR_1S   128000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR_1S   124000   Left   \$24.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR_1S   126000   Left   \$24.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR_1S   126000   Left   \$24.63   36   35   1 structure   R12993   Structures   NorthMain134   IWR_1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR_1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR_1S   128000   Left   \$11.43   36   35   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$11.43   36   35   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Lef  | R12890   Structures   NorthMain134   IWR   IS   128000   Left   \$10,73   36   35   1 structure   R12892   Structures   NorthMain134   IWR   IS   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   IWR   IS   128000   Left   \$5.919   36   35   1 structure   R12890   Structures   NorthMain134   IWR   IS   128000   Left   \$5.919   36   35   1 structure   R12902   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   36   35   1 structure   R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$1.30   36   35   1 structure   R12917   Structures   NorthMain134   IWR   IS   128000   Left   \$1.91   36   35   1 structure   R12940   Structures   NorthMain134   IWR   IS   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   IS   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR   IS   126000   Left   \$5.10   32   31   1 structure   R12984   Structures   NorthMain134   IWR   IS   126000   Left   \$24.63   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   126000   Left   \$29.88   36   35   1 structure   R12993   Structures   NorthMain134   IWR   IS   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR   IS   128000   Left   \$1.14.3   36   35   1 structure   R13032   Structures   NorthMain134   IWR   IS   128000   Left   \$1.14.3   36   35   1 structure   R13033   Structures   NorthMain134   IWR   IS   128000   Left   \$1.14.3   36   35   1 structure   R13037   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   31   30   1 structure   R13037   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   31   30   1 structure   R13130   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   31   30   1 structure   R13130   Structures   NorthMain134   IWR   IS   128000   Left   \$2.471   36   35   1 structure   R13130   Structures   NorthMain134   IWR   IS   128000   Left   \$1.560   32   31   1 structure   R13130   Struc         |           |               |               |          |          |      |           |          |        |             |
| R12892   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   1 structure   | R12892   Structures   NorthMain134   WR 1S   128000   Left   \$5.90   36   35   1 structure   R12899   Structures   NorthMain134   WR 1S   128000   Left   \$5.919   36   35   1 structure   R12902   Structures   NorthMain134   WR 1S   128000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   WR 1S   128000   Left   \$13.01   36   35   1 structure   R12917   Structures   NorthMain134   WR 1S   128000   Left   \$19.13   36   35   1 structure   R12917   Structures   NorthMain134   WR 1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   WR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   WR 1S   128000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   WR 1S   126000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   WR 1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   WR 1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   WR 1S   126000   Left   \$11.43   36   35   1 structure   R13008   Structures   NorthMain134   WR 1S   128000   Left   \$11.43   36   35   1 structure   R13003   Structures   NorthMain134   WR 1S   128000   Left   \$11.43   36   35   1 structure   R13003   Structures   NorthMain134   WR 1S   128000   Left   \$11.43   36   35   1 structure   R13003   Structures   NorthMain134   WR 1S   128000   Left   \$11.43   36   35   1 structure   R13003   Structures   NorthMain134   WR 1S   128000   Left   \$11.43   36   35   1 structure   R13118   Structures   NorthMain134   WR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   WR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   WR 1S   128000   Left   \$12.90   36   35   1 structure   R13160   Structures   NorthMain134   WR 1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   WR 1S   128000   Left   \$13.76   36         |           |               |               |          |          |      |           |          |        |             |
| R12899   Structures   NorthMain134   IWR 1S   128000   Left   \$59.19   36   35   1 structure   R12902   Structures   NorthMain134   IWR 1S   124000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$24.63   36   35   1 structure   R12969   Structures   NorthMain134   IWR 1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR 1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR 1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR 1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13033   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13037   Structures   NorthMain134   IWR 1S   128000   Left   \$7.49   35   34   1 structure   R13075   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR 1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR 1S   128000    | R12899   Structures   NorthMain134   IWR   15   128000   Left   \$59,19   36   35   1 structure   R12902   Structures   NorthMain134   IWR   15   128000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR   15   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR   15   128000   Left   \$19,13   36   35   1 structure   R12940   Structures   NorthMain134   IWR   15   128000   Left   \$6.08   36   35   1 structure   R12940   Structures   NorthMain134   IWR   15   128000   Left   \$5.00   32   31   1 structure   R12960   Structures   NorthMain134   IWR   15   124000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   15   126000   Left   \$29.88   36   35   1 structure   R12984   Structures   NorthMain134   IWR   15   126000   Left   \$29.88   36   35   1 structure   R12993   Structures   NorthMain134   IWR   15   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR   15   126000   Left   \$14.18   36   35   1 structure   R13003   Structures   NorthMain134   IWR   15   128000   Left   \$11.43   36   35   1 structure   R13003   Structures   NorthMain134   IWR   15   128000   Left   \$6.19   35   34   1 structure   R13003   Structures   NorthMain134   IWR   15   128000   Left   \$7.49   35   34   1 structure   R13007   Structures   NorthMain134   IWR   15   128000   Left   \$12.90   36   35   1 structure   R13018   Structures   NorthMain134   IWR   15   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR   15   128000   Left   \$27.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR   15   128000   Left   \$27.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR   15   128000   Left   \$15.60   32   31   1 structure   R13160   Structures   NorthMain134   IWR   15   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR   15   128000   Left   \$15.60   32   31   1 structure   R13178   Stru         |           |               |               |          |          |      |           |          |        |             |
| R12902   Structures   NorthMain134   IWR 1S   124000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR 1S   124000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR 1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR 1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR 1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR 1S   126000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13033   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13037   Structures   NorthMain134   IWR 1S   128000   Left   \$7.49   35   34   1 structure   R13075   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR 1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR 1S   128000   Left   \$2.790   36   35   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$2.790   36   35   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$2.471   36   35   1 structure   R13178   Structures   NorthMain134   IWR 1S   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR 1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR 1S   128000     | R12902   Structures   NorthMain134   IWR 1S   124000   Left   \$13.01   36   35   1 structure   R12906   Structures   NorthMain134   IWR 1S   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR 1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR 1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR 1S   128000   Left   \$5.10   32   31   1 structure   R12960   Structures   NorthMain134   IWR 1S   126000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR 1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR 1S   126000   Left   \$29.88   36   35   1 structure   R12993   Structures   NorthMain134   IWR 1S   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR 1S   126000   Left   \$5.71   36   35   1 structure   R13003   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13033   Structures   NorthMain134   IWR 1S   128000   Left   \$11.43   36   35   1 structure   R13037   Structures   NorthMain134   IWR 1S   128000   Left   \$12.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR 1S   128000   Left   \$12.90   36   35   1 structure   R13130   Structures   NorthMain134   IWR 1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR 1S   128000   Left   \$24.71   36   35   1 structure   R13152   Structures   NorthMain134   IWR 1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$15.60   32   31   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$15.60   32   31   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000   Left   \$15.60   32   31   1 structure   R13160   Structures   NorthMain134   IWR 1S   128000          |           |               |               |          |          |      |           |          |        |             |
| R12906   Structures   NorthMain134   IWR   IS   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR   IS   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR   IS   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   IS   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR   IS   124000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   IS   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR   IS   126000   Left   \$11.43   36   35   1 structure   R13008   Structures   NorthMain134   IWR   IS   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR   IS   128000   Left   \$6.19   35   34   1 structure   R13037   Structures   NorthMain134   IWR   IS   128000   Left   \$7.49   35   34   1 structure   R13075   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR   IS   128000   Left   \$3.89   36   35   1 structure   R13118   Structures   NorthMain134   IWR   IS   128000   Left   \$3.89   36   35   1 structure   R13152   Structures   NorthMain134   IWR   IS   128000   Left   \$27.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR   IS   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR   IS   128000   Left   \$24.71   36   35   1 structure   R13178   Structures   NorthMain134   IWR   IS   128000   Left   \$24.71   36   35   1 structure   R13178   Structures   NorthMain134   IWR   IS   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR   IS   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR   IS   128000   Left   \$13.76   36   35   1 structure   R13178   Struct  | R12906   Structures   NorthMain134   IWR   1S   128000   Left   \$6.16   36   35   1 structure   R12917   Structures   NorthMain134   IWR   1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   1S   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR   1S   126000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR   1S   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR   1S   126000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR   1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR   1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR   1S   128000   Left   \$2.85   31   30   1 structure   R13018   Structures   NorthMain134   IWR   1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR   1S   128000   Left   \$2.85   31   30   1 structure   R13130   Structures   NorthMain134   IWR   1S   128000   Left   \$2.90   36   35   1 structure   R13130   Structures   NorthMain134   IWR   1S   128000   Left   \$2.90   36   35   1 structure   R13130   Structures   NorthMain134   IWR   1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   1S   128000   Left   \$13.30   36   35   1 structure   R13200   Structu         |           |               |               |          |          |      |           |          |        |             |
| R12917   Structures   NorthMain134   IWR   1S   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   1S   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR   1S   124000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR   1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR   1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR   1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR   1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR   1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR   1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR   1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR   1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR   1S   128000   Left   \$27.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR   1S   128000   Left   \$27.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR   1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR   1S   128000   Left   \$24.71   36   35   1 structure   R13178   Structures   NorthMain134   IWR   1S   128000   Left   \$24.71   36   35   1 structure   R13178   Structures   NorthMain134   IWR   1S   128000   Left   \$24.71   36   35   1 structure   R13178   Structures   NorthMain134   IWR   1S   128000   Left   \$24.71   36   35   1 structure   R13178   Stru  | R12917   Structures   NorthMain134   IWR   IS   128000   Left   \$19.13   36   35   1 structure   R12940   Structures   NorthMain134   IWR   IS   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   IS   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR   IS   124000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   IS   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   IS   126000   Left   \$14.18   36   35   1 structure   R12983   Structures   NorthMain134   IWR   IS   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR   IS   126000   Left   \$11.43   36   35   1 structure   R13008   Structures   NorthMain134   IWR   IS   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR   IS   128000   Left   \$6.19   35   34   1 structure   R13037   Structures   NorthMain134   IWR   IS   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   31   30   1 structure   R13130   Structures   NorthMain134   IWR   IS   128000   Left   \$2.85   36   35   1 structure   R13130   Structures   NorthMain134   IWR   IS   128000   Left   \$2.89   36   35   1 structure   R13152   Structures   NorthMain134   IWR   IS   128000   Left   \$2.790   36   35   1 structure   R13160   Structures   NorthMain134   IWR   IS   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR   IS   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR   IS   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   IS   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   IS   128000   Left   \$11.30   36   35   1 structure   R13200   Struct         |           |               |               |          |          |      |           |          |        |             |
| R12940   Structures   NorthMain134   IWR   IS   128000   Left   \$6.08   36   35   1 structure   | R12940   Structures   NorthMain134   IWR   1S   128000   Left   \$6.08   36   35   1 structure   R12960   Structures   NorthMain134   IWR   1S   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR   1S   126000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR   1S   126000   Left   \$14.18   36   35   1 structure   R13008   Structures   NorthMain134   IWR   1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR   1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR   1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR   1S   128000   Left   \$2.85   31   30   1 structure   R13037   Structures   NorthMain134   IWR   1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR   1S   128000   Left   \$2.85   31   30   1 structure   R13118   Structures   NorthMain134   IWR   1S   128000   Left   \$2.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR   1S   128000   Left   \$2.90   36   35   1 structure   R13160   Structures   NorthMain134   IWR   1S   128000   Left   \$2.471   36   35   1 structure   R13178   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR   1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR   IS   128000   Left   \$13.76   36   35   1 structure   R13200   Structu         |           |               |               |          |          |      |           |          |        |             |
| R12960         Structures         NorthMain134         IWR_1S         126000 Left         \$5.10         32         31   structure           R12969         Structures         NorthMain134         IWR_1S         124000 Left         \$24.63         36         35   structure           R12984         Structures         NorthMain134         IWR_1S         126000 Left         \$29.88         36         35   structure           R12986         Structures         NorthMain134         IWR_1S         126000 Left         \$14.18         36         35   structure           R12993         Structures         NorthMain134         IWR_1S         126000 Left         \$5.71         36         35   structure           R13008         Structures         NorthMain134         IWR_1S         128000 Left         \$11.43         36         35   structure           R13032         Structures         NorthMain134         IWR_1S         128000 Left         \$6.19         35         34   structure           R13033         Structures         NorthMain134         IWR_1S         128000 Left         \$7.49         35         34   structure           R13075         Structures         NorthMain134         IWR_1S         128000 Left         \$12.90         36         35   str  | R12960   Structures   NorthMain134   IWR   15   126000   Left   \$5.10   32   31   1 structure   R12969   Structures   NorthMain134   IWR   15   126000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR   15   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR   15   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR   15   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR   15   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR   15   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR   15   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR   15   128000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR   15   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR   15   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR   15   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR   15   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR   15   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR   15   128000   Left   \$13.76   36   35   1 structure   R13207   Stru         |           |               |               |          |          |      |           |          | 35 1   | structure   |
| R12969         Structures         NorthMain134         IWR_1S         124000 Left         \$24.63         36         35 I structure           R12984         Structures         NorthMain134         IWR_1S         126000 Left         \$29.88         36         35 I structure           R12986         Structures         NorthMain134         IWR_1S         126000 Left         \$14.18         36         35 I structure           R12993         Structures         NorthMain134         IWR_1S         126000 Left         \$5.71         36         35 I structure           R13008         Structures         NorthMain134         IWR_1S         128000 Left         \$11.43         36         35 I structure           R13032         Structures         NorthMain134         IWR_1S         128000 Left         \$6.19         35         34 I structure           R13033         Structures         NorthMain134         IWR_1S         128000 Left         \$7.49         35         34 I structure           R13037         Structures         NorthMain134         IWR_1S         128000 Left         \$12.90         36         35 I structure           R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I str  | R12969   Structures   NorthMain134   IWR_1S   124000   Left   \$24.63   36   35   1 structure   R12984   Structures   NorthMain134   IWR_1S   126000   Left   \$29.88   36   35   1 structure   R12986   Structures   NorthMain134   IWR_1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR_1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR_1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR_1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000           |           |               |               |          |          |      |           |          |        |             |
| R12984         Structures         NorthMain134         IWR_1S         126000 Left         \$29.88         36         35 I structure           R12986         Structures         NorthMain134         IWR_1S         126000 Left         \$14.18         36         35 I structure           R12993         Structures         NorthMain134         IWR_1S         126000 Left         \$5.71         36         35 I structure           R13008         Structures         NorthMain134         IWR_1S         128000 Left         \$11.43         36         35 I structure           R13032         Structures         NorthMain134         IWR_1S         128000 Left         \$6.19         35         34 I structure           R13033         Structures         NorthMain134         IWR_1S         128000 Left         \$7.49         35         34 I structure           R13037         Structures         NorthMain134         IWR_1S         128000 Left         \$2.85         31         30 I structure           R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I stru  | R12984   Structures   NorthMain134   IWR   1S   126000   Left   \$29.88   36   35   1 structure   |           |               |               |          |          |      |           |          | 31   1 | structure   |
| R12986         Structures         NorthMain134         IWR_1S         126000 Left         \$14.18         36         35 I structure           R12993         Structures         NorthMain134         IWR_1S         126000 Left         \$5.71         36         35 I structure           R13008         Structures         NorthMain134         IWR_1S         128000 Left         \$11.43         36         35 I structure           R13032         Structures         NorthMain134         IWR_1S         128000 Left         \$6.19         35         34 I structure           R13033         Structures         NorthMain134         IWR_1S         128000 Left         \$7.49         35         34 I structure           R13037         Structures         NorthMain134         IWR_1S         126000 Left         \$2.85         31         30 I structure           R13075         Structures         NorthMain134         IWR_1S         128000 Left         \$12.90         36         35 I structure           R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I stru  | R12986   Structures   NorthMain134   IWR_1S   126000   Left   \$14.18   36   35   1 structure   R12993   Structures   NorthMain134   IWR_1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR_1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR_1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R132000   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R132000   Structures   NorthMain134   IWR_1S   128000         |           |               |               |          |          |      |           |          |        |             |
| R12993         Structures         NorthMain134         IWR_1S         126000 Left         \$5.71         36         35 I structure           R13008         Structures         NorthMain134         IWR_1S         128000 Left         \$11.43         36         35 I structure           R13032         Structures         NorthMain134         IWR_1S         128000 Left         \$6.19         35         34 I structure           R13033         Structures         NorthMain134         IWR_1S         128000 Left         \$7.49         35         34 I structure           R13037         Structures         NorthMain134         IWR_1S         126000 Left         \$2.85         31         30 I structure           R13075         Structures         NorthMain134         IWR_1S         128000 Left         \$12.90         36         35 I structure           R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I structure           R13160         Structures         NorthMain134         IWR_1S         126000 Left         \$15.60         32         31 I stru  | R12993   Structures   NorthMain134   IWR_1S   126000   Left   \$5.71   36   35   1 structure   R13008   Structures   NorthMain134   IWR_1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR_1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132        |           |               |               |          |          |      |           |          |        |             |
| R13008         Structures         NorthMain134         IWR_1S         128000 Left         \$11.43         36         35 I structure           R13032         Structures         NorthMain134         IWR_1S         128000 Left         \$6.19         35         34 I structure           R13033         Structures         NorthMain134         IWR_1S         128000 Left         \$7.49         35         34 I structure           R13037         Structures         NorthMain134         IWR_1S         126000 Left         \$2.85         31         30 I structure           R13075         Structures         NorthMain134         IWR_1S         128000 Left         \$12.90         36         35 I structure           R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I structure           R13130         Structures         NorthMain134         IWR_1S         128000 Left         \$27.90         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I structure           R13160         Structures         NorthMain134         IWR_1S         126000 Left         \$15.60         32         31 I str  | R13008   Structures   NorthMain134   IWR_1S   128000   Left   \$11.43   36   35   1 structure   R13032   Structures   NorthMain134   IWR_1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR_1S   128000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R13        |           |               |               |          |          |      |           |          | 35 1   | structure   |
| R13032         Structures   NorthMain134   IWR_1S   128000   Left   \$6.19   35   34   1 structure           R13033         Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure           R13037         Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure           R13075         Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure           R13118         Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure           R13130         Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure           R13152         Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure           R13160         Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure           R13178         Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure  | R13032   Structures   NorthMain134   IWR_1S   128000   Left   \$6.19   35   34   1 structure   R13033   Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   128000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1 structure   R132000   Left   \$11.30   36   35   1      |           |               |               |          |          |      |           |          | 35 1   | structure   |
| R13033         Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure           R13037         Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure           R13075         Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure           R13118         Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure           R13130         Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure           R13152         Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure           R13160         Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure           R13178         Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   | R13033 Structures   NorthMain134   IWR_1S   128000   Left   \$7.49   35   34   1 structure   R13037   Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure    |           |               |               |          |          |      |           |          |        |             |
| R13037         Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure           R13075         Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure           R13118         Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure           R13130         Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure           R13152         Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure           R13160         Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure           R13178         Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure  | R13037   Structures   NorthMain134   IWR_1S   126000   Left   \$2.85   31   30   1 structure   R13075   Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   R1320          |           |               |               |          |          |      |           |          |        |             |
| R13075         Structures         NorthMain134         IWR_1S         128000 Left         \$12.90         36         35 I structure           R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I structure           R13130         Structures         NorthMain134         IWR_1S         128000 Left         \$27.90         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I structure           R13160         Structures         NorthMain134         IWR_1S         126000 Left         \$15.60         32         31 I structure           R13178         Structures         NorthMain134         IWR_1S         128000 Left         \$13.76         36         35 I structure   | R13075 Structures   NorthMain134   IWR_1S   128000   Left   \$12.90   36   35   1 structure   R13118   Structures   NorthMain134   IWR_1S   128000   Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   R13200   Left   \$11.30   36   35   1 structure   R13200   Left   R132 |           |               |               |          |          |      |           |          |        |             |
| R13118         Structures         NorthMain134         IWR_1S         128000 Left         \$3.89         36         35 I structure           R13130         Structures         NorthMain134         IWR_1S         128000 Left         \$27.90         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I structure           R13160         Structures         NorthMain134         IWR_1S         126000 Left         \$15.60         32         31 I structure           R13178         Structures         NorthMain134         IWR_1S         128000 Left         \$13.76         36         35 I structure   | R13118 Structures NorthMain134   WR_1S   128000 Left   \$3.89   36   35   1 structure   R13130   Structures   NorthMain134   WR_1S   128000 Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   WR_1S   128000 Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   WR_1S   128000 Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   WR_1S   128000 Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   WR_1S   128000 Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   WR_1S   128000 Left   \$11.30   36   36   36   36   36   36   36  |           |               |               |          |          |      |           |          |        |             |
| R13130         Structures         NorthMain134         IWR_1S         128000 Left         \$27.90         36         35 I structure           R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I structure           R13160         Structures         NorthMain134         IWR_1S         126000 Left         \$15.60         32         31 I structure           R13178         Structures         NorthMain134         IWR_1S         128000 Left         \$13.76         36         35 I structure  | R13130   Structures   NorthMain134   IWR_1S   128000   Left   \$27.90   36   35   1 structure   R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   36   36   36   36   36   36  |           |               |               |          |          |      |           |          |        |             |
| R13152         Structures         NorthMain134         IWR_1S         128000 Left         \$24.71         36         35 I structure           R13160         Structures         NorthMain134         IWR_1S         126000 Left         \$15.60         32         31 I structure           R13178         Structures         NorthMain134         IWR_1S         128000 Left         \$13.76         36         35 I structure  | R13152   Structures   NorthMain134   IWR_1S   128000   Left   \$24.71   36   35   1 structure   R13160   Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200                      |           |               |               |          |          |      |           |          |        |             |
| R13160 Structures NorthMain134 IWR_1S 126000 Left \$15.60 32 31 1 structure R13178 Structures NorthMain134 IWR_1S 128000 Left \$13.76 36 35 1 structure  | R13160   Structures   NorthMain134   IWR_1S   126000   Left   \$15.60   32   31   1 structure   R13178   Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200                         |           |               |               |          |          |      |           |          |        |             |
| R13178 Structures NorthMain134   IWR_1S   128000 Left   \$13.76   36   35   1 structure  | R13178 Structures   NorthMain134   IWR_1S   128000   Left   \$13.76   36   35   1 structure   R13207   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   R13200   Structures   NorthMain134   IWR_1S   128000   Left   \$11.30   36   35   1 structure   |           |               |               |          |          |      |           |          | 35 1   | structure   |
| 331 80000 2010   | R13207 Structures NorthMain134 IWR_1S 128000 Left \$11.30 36 35 1 structure   |           |               |               |          |          |      |           |          |        |             |
| D12207 Character No.41 A4 1.404 1940 40  | P13200 Structures North Main 124 INVID 40 400000 IV 6   |           |               |               |          |          |      |           |          |        |             |
| P12200 Structures North Moint 24 JUNIO 40 40000014 (1)   | NIGEUS GRUCTUIES NORTHMAIN 134 HWK 1S   12600011 off \$7.74 26 25 4 44 14 15  |           |               |               |          |          |      |           |          |        |             |
| R13209 Structures NorthMain134 IWR_1S 126000 Left \$7.71 36 35 1 structure   | 25 STRUCTURE  | 113209    | Structures No | nuliviain 134 | IVVK_IS  | 126000 L | ett  | \$7.71    | 36       | 35 1   | structure   |

| Struc_Name<br>R13223 |              | Stream_name  | Occ_Name         |                  | Bank  | Struc_Val          | III Clago |    |             |
|----------------------|--------------|--------------|------------------|------------------|-------|--------------------|-----------|----|-------------|
|                      | Structures   | NorthMain134 | IWR 1S           | 124000           | Left  | \$3.17             | 36        |    | 1 structure |
| R13240               | <del></del>  | NorthMain134 | IWR_1S           | 128000           |       | \$7.80             | 36        |    | 1 structure |
| R13248               |              | NorthMain134 | IWR 1S           | 104000           |       | \$58.07            | 36        |    | 1 structure |
| R13270               |              | NorthMain134 | IWR 1S           | 128000           |       | \$11.41            | 36        |    | 1 structure |
| R13296               |              | NorthMain134 | IWR 1S           | 128000           |       | \$30.33            | 34        |    |             |
| R13302               |              | NorthMain134 | IWR_1S           | 128000           |       | \$27.30            | 36        |    | 1 structure |
| R13315               | <del></del>  | NorthMain134 | IWR 1S           |                  |       |                    |           |    | 1 structure |
| R13329               |              | NorthMain134 | IWR_1S           | 126000<br>129441 |       | \$7.93             | 34        |    | 1 structure |
| R13330               |              |              | IWR_1S           |                  |       | \$43.43            | 35        |    | 1 structure |
|                      |              | NorthMain134 |                  | 128000           |       | \$9.41             | 36        |    | 1 structure |
| R13415               |              | NorthMain134 | IWR_1S           | 128000           |       | \$16.69            | 36        |    | 1 structure |
| R13416               |              | NorthMain134 | IWR_1S           | 128000           |       | \$18.75            | 36        |    | 1 structure |
| R13489               |              | NorthMain134 | IWR_1S           | 128000           |       | \$25.88            | 36        |    | 1 structure |
| R13496               |              | NorthMain134 | IWR_1S           | 128000           |       | \$24.19            | 33        |    | 1 structure |
| R13519               |              | NorthMain134 | IWR_1S           | 128000           |       | \$18.55            | 36        | 35 | 1 structure |
| R13528               |              | NorthMain134 | IWR_1S           | 128000           |       | \$5.63             | 33        |    | 1 structure |
| R13548               |              | NorthMain134 | IWR_1S           | 128000           |       | \$2.84             | 33        | 32 | 1 structure |
| R13556               | Structures   | NorthMain134 | IWR_1S           | 72000            |       | \$1.87             | 22        | 21 | 1 structure |
| R13568               | Structures   | NorthMain134 | IWR_1S           | 128000           | Left  | \$22.49            | 36        | 35 | 1 structure |
| R13570               | Structures   | NorthMain134 | IWR_1S           | 128000           | Left  | \$12.24            | 36        | 35 | 1 structure |
| R13586               | Structures   | NorthMain134 | IWR_1S           | 128000           | Left  | \$11.83            | 36        | 35 | 1 structure |
| R13597               | Structures   | NorthMain134 | IWR_1S           | 128000           |       | \$14.50            | 36        |    | 1 structure |
| R13603               | Structures   | NorthMain134 | IWR 1S           | 128000           |       | \$29.09            | 36        |    | 1 structure |
| R13630               | Structures   | NorthMain134 | IWR 1S           | 126000           |       | \$21.29            | 36        |    | 1 structure |
| R13720               |              | NorthMain134 | IWR 1S           | 126000           |       | \$75.82            | 36        |    | 1 structure |
| R13731               |              | NorthMain134 | IWR 1S           | 128000           |       | \$10.27            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR 1S           | 126000           |       | \$45.43            | 35        |    | 1 structure |
| R13788               |              | NorthMain134 | IWR_1S           | 124000           |       | \$3.98             | 36        |    | 1 structure |
| R13789               |              | NorthMain134 | IWR 1S           | 128000           |       |                    |           |    |             |
|                      |              | NorthMain134 | IWR_1S           |                  |       | \$3.47             | 34        |    | 1 structure |
|                      |              | NorthMain134 | IWR 1S           | 128000           |       | \$18.77            | 36        |    | 1 structure |
|                      |              |              |                  | 128000           |       | \$19.88            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 122908           |       | \$3.75             | 34        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 126000           |       | \$24.56            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$22.55            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$15.79            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$35.01            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$20.81            | 35        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$11.67            | 36        | 35 | 1 structure |
| R14063               | Structures   | NorthMain134 | IWR_1S           | 126000           | Left  | \$17.53            | 36        | 35 | 1 structure |
|                      | Structures   | NorthMain134 | IWR_1S           | 129441           | Left  | \$14.82            | 34        | 33 | 1 structure |
| R14097               | Structures   | NorthMain134 | IWR_1S           | 108000           | Right | \$74.13            | 33        | 32 | 1 structure |
| R14110               | Structures   | NorthMain134 | IWR_1S           | 106000           | Left  | \$29.36            | 33        | 32 | 1 structure |
| R14113               | Structures   | NorthMain134 | IWR_1S           | 126000           | Left  | \$11.62            | 36        | 35 | 1 structure |
| R14128               | Structures   | NorthMain134 | IWR_1S           | 108000           | Right | \$34.10            | 33        |    | 1 structure |
| R14198               | Structures   | NorthMain134 | IWR 1S           | 126000           |       | \$62.32            | 32        |    | 1 structure |
| R14303               | Structures   | NorthMain134 | IWR_1S           | 129441           |       | \$17.38            | 34        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 94000            |       | \$43.21            | 29        |    | 1 structure |
|                      |              |              | IWR_1S           | 128000           |       | \$34.37            | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$2.00             | 36        |    | 1 structure |
|                      |              | NorthMain134 | IWR 1S           | 88000            |       | \$57.88            | 28        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       |                    | 36        |    |             |
|                      |              |              |                  |                  |       | \$40.95            |           |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 128000           |       | \$13.13            | 36        |    | structure   |
|                      |              |              | IWR_1S           | 138000           |       | \$113.95           | 38        |    | 1 structure |
|                      |              | NorthMain134 | IWR_1S           | 124000           |       | \$9.99             | 36        |    | 1 structure |
|                      | Structures 1 | NorthMain134 | IWR_1S           | 128000           | Left  | \$40.11            | 36        | 35 | 1 structure |
|                      |              |              |                  |                  |       |                    |           |    |             |
| R14486               | Structures   |              | IWR_1S<br>IWR_1S | 126000<br>140000 |       | \$25.50<br>\$40.76 | 35<br>40  | 34 | 1 structure |

| Struck Name Cat, name   Straem name   Occ. Name Istation   Bank   Struck Val   If Stage   Notes   Name Istation   Struck Val   If Stage   Notes   Name Istation   Name Istat                       | Struc Nar | ne Cat_name   Stre | eam name | Occ Name | Station  | Ponk | Ctm. a 1/al | 145 01   |      |           |
|--|-----------|--------------------|----------|----------|----------|------|-------------|----------|------|-----------|
| R14511   Structures   NorthMain134   IWR   S   128000   Left   \$35.74   33   32   Structures   R14516   Structures   NorthMain134   IWR   S   128000   Left   \$318.14   35   34   Structures   R14518   Structures   NorthMain134   IWR   S   128000   Left   \$3.94   33   32   Structures   R14520   Structures   NorthMain134   IWR   S   128000   Left   \$9.14   36   35   Structures   R14520   Structures   NorthMain134   IWR   S   128000   Left   \$9.14   36   35   Structures   R14521   Structures   NorthMain134   IWR   S   128441   Left   \$9.14   36   35   Structures   R14521   Structures   NorthMain134   IWR   S   128441   Left   \$9.14   36   35   Structures   R14521   Structures   NorthMain134   IWR   S   128441   Left   \$4.32   41   40   Structures   R14521   Structures   NorthMain134   IWR   S   128441   Left   \$4.32   41   40   Structures   R14521   Structures   NorthMain134   IWR   S   128000   Left   \$4.32   41   40   Structures   R14521   Structures   NorthMain134   IWR   S   128000   Left   \$9.10   36   35   Structures   R14522   Structures   NorthMain134   IWR   S   128000   Left   \$9.10   36   35   Structures   R14522   Structures   NorthMain134   IWR   S   128000   Left   \$9.10   36   35   Structures   R14522   Structures   NorthMain134   IWR   S   128000   Left   \$9.10   50   36   35   Structures   R14522   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   36   35   Structures   R14522   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   50   Structures   R14524   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   Structures   R14524   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   Structures   R14524   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   Structures   R14524   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   50   50   Structures   No |           |                    |          |          |          | Bank | Struc_val   | TF_Stage |      |           |
| R14517   Structures   NorthMain134   IWR   S   728000   Left   \$2.94   33   32   1 structure   R14518   Structures   NorthMain134   IWR   S   128000   Left   \$2.94   33   32   1 structure   R14520   Structures   NorthMain134   IWR   S   128000   Left   \$2.94   33   32   1 structure   R14520   Structures   NorthMain134   IWR   S   128000   Left   \$2.110   36   35   1 structure   R14521   Structures   NorthMain134   IWR   S   128000   Left   \$2.110   36   35   1 structure   R14522   Structures   NorthMain134   IWR   S   129441   Left   \$2.110   36   35   1 structure   R14522   Structures   NorthMain134   IWR   S   129441   Left   \$12.28   36   35   1 structure   R14522   Structures   NorthMain134   IWR   S   80000   Right   \$3.20   29   28   1 structure   R14522   Structures   NorthMain134   IWR   S   80000   Right   \$3.20   29   28   1 structure   R14522   Structures   NorthMain134   IWR   S   80000   Left   \$3.00   36   35   1 structure   R14701   Structures   NorthMain134   IWR   S   128000   Left   \$3.00   38   37   1 structure   R14701   Structures   NorthMain134   IWR   S   128000   Left   \$30.30   38   37   1 structure   R14701   Structures   NorthMain134   IWR   S   128000   Left   \$30.30   38   37   1 structure   R14800   Structures   NorthMain134   IWR   S   128000   Left   \$37.91   36   35   1 structure   R14800   Structures   NorthMain134   IWR   S   128000   Left   \$37.91   36   35   1 structure   R14840   Structures   NorthMain134   IWR   S   128000   Left   \$37.91   36   35   1 structure   R14840   Structures   NorthMain134   IWR   S   128000   Left   \$37.91   36   35   1 structure   R14840   Structures   NorthMain134   IWR   S   128000   Left   \$37.91   36   35   1 structure   R14940   Structures   NorthMain134   IWR   S   128000   Left   \$3.20   36   35   1 structure   R14940   Structures   NorthMain134   IWR   S   128000   Left   \$3.20   36   35   1 structure   R14940   Structures   NorthMain134   IWR   S   128000   Left   \$3.20   36   35   1 structure   R14940   Structures   NorthMain134   IW  |           |                    |          |          |          |      |             |          |      |           |
| R14518   Structures   NorthMain134   IWR   IS   128000   Left   \$2.94   33   33   1 structure   R14520   Structures   NorthMain134   IWR   IS   128000   Left   \$2.14   36   35   1 structure   R14522   Structures   NorthMain134   IWR   IS   128441   Left   \$2.11   36   35   1 structure   R14521   Structures   NorthMain134   IWR   IS   129441   Left   \$2.11   36   35   1 structure   R14552   Structures   NorthMain134   IWR   IS   129441   Left   \$2.21   36   35   1 structure   R14557   Structures   NorthMain134   IWR   IS   129441   Left   \$12.28   36   35   1 structure   R14557   Structures   NorthMain134   IWR   IS   86000   Right   \$3.20   29   28   1 structure   R14564   Structures   NorthMain134   IWR   IS   128000   Left   \$8.10   36   35   1 structure   R14565   Structures   NorthMain134   IWR   IS   128000   Left   \$8.00   38   37   1 structure   R14566   Structures   NorthMain134   IWR   IS   128000   Left   \$20.15   36   35   1 structure   R14761   Structures   NorthMain134   IWR   IS   128000   Left   \$20.30   38   37   1 structure   R14761   Structures   NorthMain134   IWR   IS   128000   Left   \$37.39   36   35   1 structure   R14861   Structures   NorthMain134   IWR   IS   128000   Left   \$37.39   36   35   1 structure   R14864   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   1 structure   R14840   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   1 structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   1 structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   1 structure   R14949   Structures   NorthMain134   IWR   IS   128000   Left   \$35.51   36   33   1 structure   R14949   Structures   NorthMain134   IWR   IS   128000   Left   \$35.51   36   33   1 structure   R14949   Structures   NorthMain134   IWR   IS   128000   Left   \$35.60   36   35   1 structure   R14949   Structures   NorthMain134   IWR   IS   128000   Left   \$3.2.69   36   35   1 structure   R14949   Struc  |           |                    |          |          |          |      |             |          |      |           |
| R14520   Structures   NorthMain134   IWR   IS   128000   Left   \$9,144   36   35   I structure   R14522   Structures   NorthMain134   IWR   IS   128441   Left   \$2,110   36   35   I structure   R14525   Structures   NorthMain134   IWR   IS   127441   Left   \$2,110   36   35   I structure   R14522   Structures   NorthMain134   IWR   IS   127441   Left   \$2,110   36   35   I structure   R14522   Structures   NorthMain134   IWR   IS   128441   Left   \$1,228   36   35   I structure   R14525   Structures   NorthMain134   IWR   IS   128000   Left   \$2,015   36   35   I structure   R14526   Structures   NorthMain134   IWR   IS   128000   Left   \$20,015   36   35   I structure   R14701   Structures   NorthMain134   IWR   IS   128000   Left   \$20,015   36   35   I structure   R14701   Structures   NorthMain134   IWR   IS   138000   Left   \$30,30   38   37   I structure   R14701   Structures   NorthMain134   IWR   IS   138000   Left   \$37,39   36   35   I structure   R14701   Structures   NorthMain134   IWR   IS   102000   Left   \$37,39   36   35   I structure   R14804   Structures   NorthMain134   IWR   IS   102000   Left   \$37,38   36   35   I structure   R14804   Structures   NorthMain134   IWR   IS   128000   Left   \$37,81   36   35   I structure   R14804   Structures   NorthMain134   IWR   IS   128000   Left   \$37,81   36   35   I structure   R14804   Structures   NorthMain134   IWR   IS   128000   Left   \$37,81   36   35   I structure   R14804   Structures   NorthMain134   IWR   IS   128000   Left   \$37,81   36   35   I structure   R14918   Structures   NorthMain134   IWR   IS   128000   Left   \$32,69   36   35   I structure   R14922   Structures   NorthMain134   IWR   IS   128000   Left   \$32,69   36   35   I structure   R14922   Structures   NorthMain134   IWR   IS   128000   Left   \$32,69   36   35   I structure   R14922   Structures   NorthMain134   IWR   IS   128000   Left   \$32,69   36   35   I structure   R14922   Structures   NorthMain134   IWR   IS   128000   Left   \$32,59   36   35   I structure   R1492  |           |                    |          |          |          |      |             |          |      |           |
| R14522   Structures   NorthMain134   IWR   IS   129441   Left   S2.11.0   36   35   I structures   R14541   Structures   NorthMain134   IWR   IS   147159   Left   S4.32   411   401   structure   R14570   Structures   NorthMain134   IWR   IS   129441   Left   S1.2.28   36   35   I structures   R14570   Structures   NorthMain134   IWR   IS   128000   Left   S3.20   29   28   I structure   R14570   Structures   NorthMain134   IWR   IS   128000   Left   S8.10   36   35   I structure   R14582   Structures   NorthMain134   IWR   IS   128000   Left   S0.01   36   35   I structure   R14586   Structures   NorthMain134   IWR   IS   128000   Left   S0.01   36   35   I structure   R14771   Structures   NorthMain134   IWR   IS   128000   Left   S0.01   36   35   I structure   R14781   Structures   NorthMain134   IWR   IS   128000   Left   S0.01   36   35   I structure   R14781   Structures   NorthMain134   IWR   IS   128000   Left   S3.739   36   35   I structure   R14840   Structures   NorthMain134   IWR   IS   128000   Left   S3.739   36   35   I structure   R14840   Structures   NorthMain134   IWR   IS   128000   Left   S3.731   36   35   I structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   S3.731   36   35   I structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   S3.731   36   35   I structure   R14845   Structures   NorthMain134   IWR   IS   128000   Left   S3.269   36   35   I structure   R14920   Structures   NorthMain134   IWR   IS   128000   Left   S3.510   36   35   I structure   R14920   Structures   NorthMain134   IWR   IS   128000   Left   S3.450   36   35   I structure   R14920   Structures   NorthMain134   IWR   IS   128000   Left   S3.450   36   35   I structure   R14920   Structures   NorthMain134   IWR   IS   128000   Left   S3.450   36   35   I structure   R14920   Structures   NorthMain134   IWR   IS   128000   Left   S3.450   36   35   I structure   R14920   Structures   NorthMain134   IWR   IS   128000   Left   S3.450   36   35   I structure   R14920   S                       |           |                    |          |          |          |      |             |          |      |           |
| R14541   Structures   NorthMain134   WR   IS   147159   Left   \$4.32   411   401   Instructure   R14570   Structures   NorthMain134   WR   IS   86000   Right   \$3.20   29   28   Instructure   R14582   Structures   NorthMain134   WR   IS   86000   Right   \$3.20   29   28   Instructure   R14582   Structures   NorthMain134   WR   IS   128000   Left   \$20.15   36   35   Instructure   R14701   Structures   NorthMain134   WR   IS   128000   Left   \$20.15   36   35   Instructure   R14701   Structures   NorthMain134   WR   IS   128000   Left   \$37.39   36   35   Instructure   R14701   Structures   NorthMain134   WR   IS   128000   Left   \$37.39   36   35   Instructure   R14701   Structures   NorthMain134   WR   IS   128000   Left   \$37.39   36   35   Instructure   R14801   Structures   NorthMain134   WR   IS   128000   Left   \$37.39   36   35   Instructure   R14801   Structures   NorthMain134   WR   IS   128000   Left   \$37.38   36   35   Instructure   R14801   Structures   NorthMain134   WR   IS   128000   Left   \$37.38   36   35   Instructure   R14844   Structures   NorthMain134   WR   IS   128000   Left   \$37.38   36   35   Instructure   R14844   Structures   NorthMain134   WR   IS   128000   Left   \$47.26   36   35   Instructure   R14844   Structures   NorthMain134   WR   IS   128000   Left   \$47.26   36   35   Instructure   R14920   Structures   NorthMain134   WR   IS   128000   Left   \$47.26   36   35   Instructure   R14920   Structures   NorthMain134   WR   IS   128000   Left   \$35.512   36   35   Instructure   R14920   Structures   NorthMain134   WR   IS   128000   Left   \$35.512   36   35   Instructure   R14930   Structures   NorthMain134   WR   IS   128000   Left   \$35.512   36   35   Instructure   R14930   Structures   NorthMain134   WR   IS   128000   Left   \$35.512   36   35   Instructure   R14930   Structures   NorthMain134   WR   IS   128000   Left   \$35.512   36   35   Instructure   R14930   Structures   NorthMain134   WR   IS   128000   Left   \$35.50   36   35   Instructure   R14930   Structures   No  |           |                    |          |          |          |      |             |          |      |           |
| R14552   Structures   NorthMain134   WR   IS   12941  Left   \$12.28  36   35   structure   R14582   Structures   NorthMain134   WR   IS   86000   Right   \$3.20   29   28   structure   R14586   Structures   NorthMain134   WR   IS   128000   Left   \$3.10   36   35   structure   R14586   Structures   NorthMain134   WR   IS   128000   Left   \$60.30   38   35   structure   R14586   Structures   NorthMain134   WR   IS   128000   Left   \$60.30   38   37   structure   R14781   Structures   NorthMain134   WR   IS   128000   Left   \$37.39   36   35   structure   R14781   Structures   NorthMain134   WR   IS   128000   Left   \$37.39   36   35   structure   R14800   Structures   NorthMain134   WR   IS   128000   Right   \$35.57   22   21   structure   R14800   Structures   NorthMain134   WR   IS   80000   Right   \$33.57   22   21   structure   R14843   Structures   NorthMain134   WR   IS   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   WR   IS   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   WR   IS   128000   Left   \$37.81   36   35   structure   R14942   Structures   NorthMain134   WR   IS   128000   Left   \$37.81   36   35   structure   R14922   Structures   NorthMain134   WR   IS   128000   Left   \$35.51   36   36   36   structure   R14922   Structures   NorthMain134   WR   IS   128000   Left   \$32.69   36   35   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$32.69   36   35   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$32.69   36   35   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$34.80   36   35   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$34.80   36   36   37   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$3.30   32   31   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$3.30   32   31   structure   R14929   Structures   NorthMain134   WR   IS   128000   Left   \$3. |           |                    |          |          |          |      |             |          |      |           |
| R14570   Structures   NorthMain134   IWR   IS   128000   Left   \$3.20   29   28   Structures   R14586   Structures   NorthMain134   IWR   IS   128000   Left   \$3.10   36   35   structure   R14586   Structures   NorthMain134   IWR   IS   128000   Left   \$20.15   36   35   structure   R14701   Structures   NorthMain134   IWR   IS   138000   Left   \$37.39   38   37   structure   R14701   Structures   NorthMain134   IWR   IS   128000   Left   \$37.39   38   37   structure   R14801   Structures   NorthMain134   IWR   IS   128000   Left   \$37.39   36   35   structure   R14801   Structures   NorthMain134   IWR   IS   128000   Right   \$37.39   36   35   structure   R14801   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   38   35   structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   38   35   structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   38   35   structure   R14848   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   38   35   structure   R14849   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   structure   R14918   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   structure   R14929   Structures   NorthMain134   IWR   IS   128000   Left   \$32.60   36   35   structure   R14929   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14952   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14952   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14952   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14950   Structures   NorthMain134   IWR   IS   1  |           |                    |          |          |          |      |             |          |      |           |
| R14582   Structures   NorthMain134   WR   1S   128000   Left   \$3.10   36   35   structure   R14701   Structures   NorthMain134   WR   1S   128000   Left   \$20.15   36   35   structure   R14701   Structures   NorthMain134   WR   1S   128000   Left   \$60.30   38   37   structure   R14701   Structures   NorthMain134   WR   1S   128000   Left   \$37.39   36   35   structure   R14701   Structures   NorthMain134   WR   1S   128000   Left   \$37.39   36   35   structure   R14801   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14808   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   36   35   structure   R14843   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   36   35   structure   R14844   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   36   35   structure   R14845   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   36   35   structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   36   35   structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$32.69   36   35   structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$32.69   36   35   structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$32.69   36   35   structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14949   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14949   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14949   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14949   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14949   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14949   Structures   NorthMain134   WR   1S    |           |                    |          |          |          |      |             |          |      |           |
| R14586   Structures   NorthMain134   WR   1S   128000   Left   \$20.15   36   35   structure   R14781   Structures   NorthMain134   WR   1S   138000   Left   \$37.39   36   35   structure   R14781   Structures   NorthMain134   WR   1S   128000   Left   \$37.39   36   35   structure   R14781   Structures   NorthMain134   WR   1S   128000   Right   \$57.52   36   35   structure   R14840   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14840   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14918   Structures   NorthMain134   WR   1S   128000   Left   \$37.81   36   35   structure   R14922   Structures   NorthMain134   WR   1S   128000   Left   \$32.09   36   35   structure   R14922   Structures   NorthMain134   WR   1S   128000   Left   \$32.09   36   35   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$39.50   34   33   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$39.50   34   33   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   37   structure   R14998   Structures   NorthMain134   WR   1S   128000   Left   \$36.63   39   31   structure   R14998   Structures   NorthMain134   WR   1S   128000   Left   \$36.63   36   35   structure   R14998   Structures   NorthMain134   WR   1S   128000   Left   \$36.93   36   35   structure   R1590   Structures   NorthMain134   WR   1S   128000   Left   \$36.93  |           |                    |          |          |          |      |             |          |      |           |
| R14701   Structures   NorthMain134   IWR   1S   138000   Left   \$30.30   38   37   structure   R14871   Structures   NorthMain134   IWR   1S   128000   Left   \$37.39   36   35   structure   R14801   Structures   NorthMain134   IWR   1S   102000   Right   \$57.52   36   35   structure   R14808   Structures   NorthMain134   IWR   1S   102000   Right   \$38.57   22   22   11   structure   R14840   Structures   NorthMain134   IWR   1S   128000   Left   \$37.781   36   35   structure   R14844   Structures   NorthMain134   IWR   1S   128000   Left   \$37.781   36   35   structure   R14844   Structures   NorthMain134   IWR   1S   128000   Left   \$37.781   36   35   structure   R14845   Structures   NorthMain134   IWR   1S   128000   Left   \$35.51   36   35   structure   R14918   Structures   NorthMain134   IWR   1S   128000   Left   \$32.69   36   35   structure   R14922   Structures   NorthMain134   IWR   1S   128000   Left   \$32.69   36   35   structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$39.50   34   33   structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$39.50   34   33   structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   36   37   structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   36   37   structure   R14950   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   36   37   structure   R14950   Structures   NorthMain134   IWR   1S   128000   Left   \$36.63   38   37   structure   R14962   Structures   NorthMain134   IWR   1S   128000   Left   \$36.63   38   37   structure   R14960   Structures   NorthMain134   IWR   1S   128000   Left   \$36.63   36   35   structure   R14960   Structures   NorthMain134   IWR   1S   128000   Left   \$36.63   36   35   structure   R14960   Structures   NorthMain134   IWR   1S   128000   Left   \$36.63   36   35   structure   R1590   Structures   NorthMain134   IWR   1S   128000   Left   \$36.63   36   35   structure   R1590   Structures   Nort  |           |                    |          |          |          |      |             |          |      |           |
| R14781   Structures   NorthMain134   IWR   IS   126000   Left   \$337.39   36   35   structure   R14801   Structures   NorthMain134   IWR   IS   102000   Right   \$57.52   36   35   structure   R14848   Structures   NorthMain134   IWR   IS   80000   Right   \$38.57   22   21   Istructure   R14843   Structures   NorthMain134   IWR   IS   128000   Left   \$37.81   36   35   structure   R14844   Structures   NorthMain134   IWR   IS   128000   Left   \$191.90   36   35   structure   R14848   Structures   NorthMain134   IWR   IS   128000   Left   \$4.26   36   35   structure   R14848   Structures   NorthMain134   IWR   IS   128000   Left   \$4.26   36   35   structure   R14892   Structures   NorthMain134   IWR   IS   128000   Left   \$32.69   36   35   structure   R14922   Structures   NorthMain134   IWR   IS   128000   Left   \$32.69   36   35   structure   R14922   Structures   NorthMain134   IWR   IS   128000   Left   \$39.50   34   33   structure   R14930   Structures   NorthMain134   IWR   IS   128000   Left   \$39.50   34   33   structure   R14930   Structures   NorthMain134   IWR   IS   128000   Left   \$39.60   34   33   structure   R14931   Structures   NorthMain134   IWR   IS   128000   Left   \$34.80   36   35   structure   R14952   Structures   NorthMain134   IWR   IS   138000   Left   \$34.80   36   37   structure   R14952   Structures   NorthMain134   IWR   IS   138000   Left   \$36.63   38   37   structure   R14952   Structures   NorthMain134   IWR   IS   138000   Left   \$30.30   32   31   structure   R14952   Structures   NorthMain134   IWR   IS   138000   Left   \$30.30   32   31   structure   R14952   Structures   NorthMain134   IWR   IS   128000   Left   \$30.30   32   31   structure   R15004   Structures   NorthMain134   IWR   IS   128000   Left   \$30.30   32   31   structure   R15004   Structures   NorthMain134   IWR   IS   128000   Left   \$30.30   32   31   structure   R15004   Structures   NorthMain134   IWR   IS   128000   Left   \$30.30   32   31   structure   R15102   Structures   NorthMain134   IWR   IS    |           |                    |          |          |          |      |             |          |      |           |
| R14801   Structures   NorthMain134   IWR   1S   80000   Right   \$36.57.52   36   35   Structure   R14808   Structures   NorthMain134   IWR   1S   80000   Right   \$38.57   22   21   1 structure   R14843   Structures   NorthMain134   IWR   1S   28000   Left   \$37.91   36   35   5 structure   R14844   Structures   NorthMain134   IWR   1S   128000   Left   \$419.90   36   35   5 structure   R14844   Structures   NorthMain134   IWR   1S   128000   Left   \$4.26   36   35   1 structure   R14918   Structures   NorthMain134   IWR   1S   128000   Left   \$4.26   36   35   1 structure   R14918   Structures   NorthMain134   IWR   1S   128000   Left   \$55.12   36   35   1 structure   R14929   Structures   NorthMain134   IWR   1S   128000   Left   \$55.50   36   35   1 structure   R14929   Structures   NorthMain134   IWR   1S   128000   Left   \$5.50   34   31   structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   55   structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   55   structure   R14952   Structures   NorthMain134   IWR   1S   138000   Left   \$36.63   38   37   structure   R14952   Structures   NorthMain134   IWR   1S   138000   Left   \$36.53   38   37   structure   R14959   Structures   NorthMain134   IWR   1S   128000   Left   \$30.30   32   31   structure   R14962   Structures   NorthMain134   IWR   1S   128000   Left   \$30.30   32   31   structure   R14969   Structures   NorthMain134   IWR   1S   128000   Left   \$30.30   32   31   structure   R15004   Structures   NorthMain134   IWR   1S   128000   Left   \$10.94   36   35   structure   R15004   Structures   NorthMain134   IWR   1S   128000   Left   \$10.94   36   35   structure   R15004   Structures   NorthMain134   IWR   1S   128000   Left   \$10.94   36   35   structure   R15004   Structures   NorthMain134   IWR   1S   128000   Left   \$25.59   36   35   structure   R15004   Structures   NorthMain134   IWR   1S   128000   Left   \$25.99   36   35   structure   R15004   Structures   NorthMain134   |           |                    |          |          |          |      |             |          |      |           |
| R14808   Structures   NorthMain134   WR   15   80000   Right   \$37.31   36   35   1 structure   R14843   Structures   NorthMain134   WR   15   128000   Left   \$37.81   36   35   1 structure   R14844   Structures   NorthMain134   WR   15   128000   Left   \$4.26   36   35   1 structure   R14854   Structures   NorthMain134   WR   15   128000   Left   \$4.26   36   35   1 structure   R14854   Structures   NorthMain134   WR   15   128000   Left   \$4.26   36   35   1 structure   R14918   Structures   NorthMain134   WR   15   128000   Left   \$32.29   36   35   1 structure   R14922   Structures   NorthMain134   WR   15   128000   Left   \$32.29   36   35   1 structure   R14922   Structures   NorthMain134   WR   15   128000   Left   \$3.269   36   35   1 structure   R14930   Structures   NorthMain134   WR   15   128000   Left   \$3.269   36   35   1 structure   R14931   Structures   NorthMain134   WR   15   128000   Left   \$3.480   36   35   1 structure   R14931   Structures   NorthMain134   WR   15   128000   Left   \$3.480   36   35   1 structure   R14952   Structures   NorthMain134   WR   15   138000   Left   \$3.480   36   35   1 structure   R14962   Structures   NorthMain134   WR   15   138000   Left   \$3.480   36   35   1 structure   R14962   Structures   NorthMain134   WR   15   138000   Left   \$0.30   32   31   structure   R14962   Structures   NorthMain134   WR   15   128000   Left   \$0.30   32   31   structure   R15004   Structures   NorthMain134   WR   15   128000   Left   \$0.30   32   31   structure   R15004   Structures   NorthMain134   WR   15   128000   Left   \$1.694   35   34   1 structure   R15004   Structures   NorthMain134   WR   15   128000   Left   \$25.59   36   35   1 structure   R15102   Structures   NorthMain134   WR   15   128000   Left   \$25.59   36   35   1 structure   R15102   Structures   NorthMain134   WR   15   128000   Left   \$25.59   36   35   1 structure   R15102   Structures   NorthMain134   WR   15   128000   Left   \$25.67   36   35   1 structure   R15102   Structures   NorthMain134   WR   |           |                    |          |          |          |      |             |          |      |           |
| R14843   Structures   NorthMain134   WR   S   128000   Left   \$37.81   36   35   structures   R14844   Structures   NorthMain134   WR   S   128000   Left   \$37.81   36   35   structures   R14844   Structures   NorthMain134   WR   S   128000   Left   \$4.26   36   35   structures   R14918   Structures   NorthMain134   WR   S   128000   Left   \$55.12   36   35   structures   R14918   Structures   NorthMain134   WR   S   128000   Left   \$32.69   36   35   structures   R14918   Structures   NorthMain134   WR   S   128000   Left   \$32.69   36   35   structures   R14929   Structures   NorthMain134   WR   S   128000   Left   \$9.50   34   33   structures   R14929   Structures   NorthMain134   WR   S   128000   Left   \$9.50   34   33   structures   R14930   Structures   NorthMain134   WR   S   128000   Left   \$9.50   34   33   structures   R14930   Structures   NorthMain134   WR   S   128000   Left   \$9.50   34   33   structures   R14952   Structures   NorthMain134   WR   S   128000   Left   \$65.63   38   37   structures   R14952   Structures   NorthMain134   WR   S   80000   Right   \$2.00   25   24   structures   R14962   Structures   NorthMain134   WR   S   128000   Left   \$0.30   32   31   structure   R14998   Structures   NorthMain134   WR   S   128000   Left   \$0.30   32   31   structure   R15000   Structures   NorthMain134   WR   S   128000   Left   \$0.30   32   31   structure   R15000   Structures   NorthMain134   WR   S   128000   Left   \$0.30   32   31   structure   R15010   Structures   NorthMain134   WR   S   128000   Left   \$0.20   31   30   structure   R15010   Structures   NorthMain134   WR   S   128000   Left   \$0.20   36   35   structure   R15100   Structures   NorthMain134   WR   S   128000   Left   \$0.20   36   35   structure   R15100   Structures   NorthMain134   WR   S   128000   Left   \$0.20   36   35   structure   R15100   Structures   NorthMain134   WR   S   128000   Left   \$0.20   36   35   structure   R15100   Structures   NorthMain134   WR   S   128000   Left   \$0.50   36   35   structure   R1 |           |                    |          |          |          |      |             |          |      |           |
| R14844   Structures   NorthMain134   WR   1S   128000   Left   \$191.90   36   35   structure   R14854   Structures   NorthMain134   WR   1S   128000   Left   \$4.26   36   35   structure   R14918   Structures   NorthMain134   WR   1S   128000   Left   \$32.69   36   35   structure   R14922   Structures   NorthMain134   WR   1S   128000   Left   \$32.69   36   35   structure   R14922   Structures   NorthMain134   WR   1S   128000   Left   \$9.50   34   31   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$9.50   34   31   structure   R14930   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14931   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   structure   R14930   Structures   NorthMain134   WR   1S   138000   Left   \$34.80   36   35   structure   R14959   Structures   NorthMain134   WR   1S   80000   Right   \$2.00   25   24   structure   R14962   Structures   NorthMain134   WR   1S   128000   Left   \$0.30   32   31   structure   R14962   Structures   NorthMain134   WR   1S   128000   Left   \$0.30   32   31   structure   R15004   Structures   NorthMain134   WR   1S   128000   Left   \$10.55   36   35   structure   R15004   Structures   NorthMain134   WR   1S   128000   Left   \$10.94   35   34   structure   R15004   Structures   NorthMain134   WR   1S   128000   Left   \$10.94   35   34   structure   R15004   Structures   NorthMain134   WR   1S   128000   Left   \$10.94   35   34   structure   R15102   Structures   NorthMain134   WR   1S   128000   Left   \$10.94   35   34   structure   R15103   Structures   NorthMain134   WR   1S   128000   Left   \$10.94   36   35   structure   R15103   Structures   NorthMain134   WR   1S   128000   Left   \$10.94   36   35   structure   R15103   Structures   NorthMain134   WR   1S   128000   Left   \$10.95   36   35   structure   R15104   Structures   NorthMain134   WR   1S   128000   Left   \$10.95   36   35   structure   R15104   Structures   NorthMain134   WR   1S   128000   Left   \$10.95   36  |           |                    |          |          |          |      |             |          |      |           |
| R14854   Structures   NorthMain134   WR   1S   128000   Left   \$4.26   36   35   1 structure   R14918   Structures   NorthMain134   WR   1S   128000   Left   \$55.12   36   35   1 structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$32.69   36   35   1 structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$9.50   34   33   1 structure   R14929   Structures   NorthMain134   WR   1S   128000   Left   \$9.50   34   33   1 structure   R14931   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   1 structure   R14931   Structures   NorthMain134   WR   1S   128000   Left   \$34.80   36   35   1 structure   R14952   Structures   NorthMain134   WR   1S   128000   Left   \$65.63   38   37   1 structure   R14952   Structures   NorthMain134   WR   1S   80000   Right   \$2.00   25   24   1 structure   R14962   Structures   NorthMain134   WR   1S   80000   Right   \$2.00   25   24   1 structure   R14998   Structures   NorthMain134   WR   1S   128000   Left   \$0.30   32   31   1 structure   R15000   Structures   NorthMain134   WR   1S   128000   Left   \$12.55   36   35   1 structure   R15000   Structures   NorthMain134   WR   1S   128000   Left   \$16.94   35   34   1 structure   R15000   Structures   NorthMain134   WR   1S   128000   Left   \$25.09   36   35   1 structure   R15103   Structures   NorthMain134   WR   1S   128000   Left   \$25.09   36   35   1 structure   R15103   Structures   NorthMain134   WR   1S   128000   Left   \$12.64   36   35   1 structure   R15103   Structures   NorthMain134   WR   1S   128000   Left   \$12.64   36   35   1 structure   R15191   Structures   NorthMain134   WR   1S   128000   Left   \$13.62   36   35   1 structure   R15199   Structures   NorthMain134   WR   1S   128000   Left   \$16.94   33   32   1 structure   R15199   Structures   NorthMain134   WR   1S   128000   Left   \$14.65   36   35   1 structure   R15266   Structures   NorthMain134   WR   1S   128000   Left   \$14.65   36   35   1 structure   R15266   Structures   NorthMain134  |           |                    |          |          |          |      |             |          |      |           |
| R14918   Structures   NorthMain134   WR 15   104000   Left   \$55.12   36   35   1 structure   R14922   Structures   NorthMain134   WR 15   126000   Left   \$32.69   36   35   1 structure   R14929   Structures   NorthMain134   WR 15   128000   Left   \$32.69   36   35   1 structure   R14930   Structures   NorthMain134   WR 15   128000   Left   \$19.46   32   31   1 structure   R14931   Structures   NorthMain134   WR 15   128000   Left   \$34.80   36   35   1 structure   R14932   Structures   NorthMain134   WR 15   138000   Left   \$55.63   36   35   1 structure   R14952   Structures   NorthMain134   WR 15   138000   Left   \$65.63   38   37   1 structure   R14952   Structures   NorthMain134   WR 15   138000   Left   \$65.63   38   37   1 structure   R14962   Structures   NorthMain134   WR 15   138000   Left   \$0.30   32   31   1 structure   R14969   Structures   NorthMain134   WR 15   126000   Left   \$0.30   32   31   1 structure   R14968   Structures   NorthMain134   WR 15   126000   Left   \$0.30   32   31   1 structure   R15000   Structures   NorthMain134   WR 15   126000   Left   \$12.55   36   35   1 structure   R15000   Structures   NorthMain134   WR 15   128000   Left   \$12.55   36   35   1 structure   R15100   Structures   NorthMain134   WR 15   128000   Left   \$32.00   30   30   1 structure   R15100   Structures   NorthMain134   WR 15   128000   Left   \$32.00   36   35   1 structure   R15100   Structures   NorthMain134   WR 15   128000   Left   \$32.29   36   35   1 structure   R15110   Structures   NorthMain134   WR 15   128000   Left   \$32.29   36   35   1 structure   R15189   Structures   NorthMain134   WR 15   128000   Left   \$32.39   36   35   1 structure   R15189   Structures   NorthMain134   WR 15   128000   Left   \$48.17   33   32   1 structure   R15189   Structures   NorthMain134   WR 15   128000   Left   \$48.17   33   32   1 structure   R15268   Structures   NorthMain134   WR 15   128000   Left   \$31.60   36   35   1 structure   R15261   Structures   NorthMain134   WR 15   128000   Left   \$31.56   36  |           |                    |          |          |          |      |             |          |      |           |
| R14922   Structures   NorthMain134   IWR   1S   128000   Left   \$32.69   36   35   1 structure   R14929   Structures   NorthMain134   IWR   1S   128000   Left   \$39.50   34   33   1 structure   R14930   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   35   1 structure   R14931   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   35   1 structure   R14952   Structures   NorthMain134   IWR   1S   128000   Left   \$34.80   36   35   1 structure   R14952   Structures   NorthMain134   IWR   1S   80000   Right   \$2.00   25   24   1 structure   R14962   Structures   NorthMain134   IWR   1S   80000   Right   \$2.00   25   24   1 structure   R14962   Structures   NorthMain134   IWR   1S   128000   Left   \$0.30   32   31   1 structure   R14998   Structures   NorthMain134   IWR   1S   128000   Left   \$12.55   36   35   1 structure   R15000   Structures   NorthMain134   IWR   1S   128000   Left   \$10.25   36   35   1 structure   R15000   Structures   NorthMain134   IWR   1S   128000   Left   \$25.00   36   35   1 structure   R15103   Structures   NorthMain134   IWR   1S   128000   Left   \$25.00   36   35   1 structure   R15103   Structures   NorthMain134   IWR   1S   128000   Left   \$10.26   36   35   1 structure   R15103   Structures   NorthMain134   IWR   1S   128000   Left   \$10.26   36   35   1 structure   R15149   Structures   NorthMain134   IWR   1S   128000   Left   \$10.26   36   35   1 structure   R15149   Structures   NorthMain134   IWR   1S   128000   Left   \$20.20   36   36   35   1 structure   R15199   Structures   NorthMain134   IWR   1S   128000   Left   \$48.17   33   32   1 structure   R15268   Structures   NorthMain134   IWR   1S   128000   Left   \$40.05   36   35   1 structure   R15260   Structures   NorthMain134   IWR   1S   128000   Left   \$40.05   36   35   1 structure   R15260   Structures   NorthMain134   IWR   1S   128000   Left   \$40.05   36   35   1 structure   R15260   Structures   NorthMain134   IWR   1S   128000   Left   \$40.05   36   35   1 structure   R1526  |           |                    |          |          |          |      |             |          |      |           |
| R14929   Structures   NorthMain134   IWR   IS   128000   Left   \$9,500   34   33   structure   R14930   Structures   NorthMain134   IWR   IS   128000   Left   \$19,46   32   31   structure   R14931   Structures   NorthMain134   IWR   IS   128000   Left   \$18,400   36   35   structure   R14982   Structures   NorthMain134   IWR   IS   128000   Left   \$65,63   38   35   structure   R14982   Structures   NorthMain134   IWR   IS   138000   Left   \$65,63   38   37   structure   R14982   Structures   NorthMain134   IWR   IS   138000   Left   \$65,63   38   37   structure   R14982   Structures   NorthMain134   IWR   IS   112000   Left   \$0,30   32   31   structure   R14982   Structures   NorthMain134   IWR   IS   112000   Left   \$0,30   32   31   structure   R14982   Structures   NorthMain134   IWR   IS   112000   Left   \$12,55   36   35   structure   R15004   Structures   NorthMain134   IWR   IS   128000   Left   \$12,55   36   35   structure   R15003   Structures   NorthMain134   IWR   IS   128000   Left   \$12,55   36   35   structure   R15002   Structures   NorthMain134   IWR   IS   128000   Left   \$12,50   36   35   structure   R15102   Structures   NorthMain134   IWR   IS   128000   Left   \$13,50   36   35   structure   R15103   Structures   NorthMain134   IWR   IS   128000   Left   \$12,50   36   35   structure   R15149   Structures   NorthMain134   IWR   IS   128000   Left   \$12,64   36   35   structure   R15149   Structures   NorthMain134   IWR   IS   128000   Left   \$23,29   36   35   structure   R15189   Structures   NorthMain134   IWR   IS   128000   Left   \$48,17   33   32   structure   R15189   Structures   NorthMain134   IWR   IS   128000   Left   \$48,17   33   32   structure   R15280   Structures   NorthMain134   IWR   IS   128000   Left   \$48,17   33   32   structure   R15280   Structures   NorthMain134   IWR   IS   128000   Left   \$48,17   33   32   structure   R15280   Structures   NorthMain134   IWR   IS   128000   Left   \$40,00   Left   \$40,00   S1   Structure   R15280   Structures   NorthMain134   IW |           |                    |          |          |          |      |             |          |      |           |
| R14930   |           |                    |          |          |          |      |             |          |      |           |
| R14931   Structures   NorthMain134   WR   15   128000   Left   \$34.80   36   35   structure   R14952   Structures   NorthMain134   WR   15   138000   Left   \$65.63   38   37   structure   R14952   Structures   NorthMain134   WR   15   138000   Left   \$65.63   38   37   structure   R14962   Structures   NorthMain134   WR   15   12000   Left   \$0.30   32   21   structure   R14962   Structures   NorthMain134   WR   15   12000   Left   \$0.30   32   21   structure   R14962   Structures   NorthMain134   WR   15   126000   Left   \$10.93   32   31   structure   R15004   Structures   NorthMain134   WR   15   126000   Left   \$10.94   35   34   structure   R15004   Structures   NorthMain134   WR   15   128000   Left   \$10.94   35   34   structure   R15002   Structures   NorthMain134   WR   15   128000   Left   \$25.09   36   35   structure   R15102   Structures   NorthMain134   WR   15   128000   Left   \$25.09   36   35   structure   R15103   Structures   NorthMain134   WR   15   128000   Left   \$13.62   36   35   structure   R15110   Structures   NorthMain134   WR   15   128000   Left   \$12.64   36   35   structure   R15149   Structures   NorthMain134   WR   15   128000   Left   \$23.29   36   35   structure   R15182   Structures   NorthMain134   WR   15   128000   Left   \$6.79   36   35   structure   R15199   Structures   NorthMain134   WR   15   128000   Left   \$18.05   33   32   structure   R15199   Structures   NorthMain134   WR   15   128000   Left   \$18.05   33   32   structure   R15266   Structures   NorthMain134   WR   15   128000   Left   \$18.05   36   35   structure   R15266   Structures   NorthMain134   WR   15   128000   Left   \$20.05   36   35   structure   R15266   Structures   NorthMain134   WR   15   128000   Left   \$20.05   36   35   structure   R15267   Structures   NorthMain134   WR   15   128000   Left   \$20.05   36   35   structure   R15268   Structures   NorthMain134   WR   15   128000   Left   \$3.728   25   24   structure   R15268   Structures   NorthMain134   WR   15   128000   Left   \$3.727   36  |           |                    |          |          |          |      |             |          |      |           |
| R14952   Structures   NorthMain134   IWR   S   138000   Left   \$65.63   38   37   structure   R14959   Structures   NorthMain134   IWR   S   80000   Right   \$2.00   25   24   structure   R14962   Structures   NorthMain134   IWR   S   112000   Left   \$0.30   32   31   structure   R14998   Structures   NorthMain134   IWR   S   112000   Left   \$12.55   36   35   structure   R15004   Structures   NorthMain134   IWR   S   126000   Left   \$12.55   36   35   structure   R15004   Structures   NorthMain134   IWR   S   128000   Left   \$16.94   35   34   structure   R15073   Structures   NorthMain134   IWR   S   128000   Left   \$16.94   35   36   35   structure   R15102   Structures   NorthMain134   IWR   S   128000   Left   \$2.50   36   35   structure   R15103   Structures   NorthMain134   IWR   S   128000   Left   \$13.62   36   35   structure   R15110   Structures   NorthMain134   IWR   S   128000   Left   \$12.64   36   35   structure   R15110   Structures   NorthMain134   IWR   S   128000   Left   \$23.29   36   35   structure   R15149   Structures   NorthMain134   IWR   S   128000   Left   \$23.29   36   35   structure   R15189   Structures   NorthMain134   IWR   S   128000   Left   \$6.79   36   35   structure   R15191   Structures   NorthMain134   IWR   S   126000   Left   \$48.77   33   32   structure   R15199   Structures   NorthMain134   IWR   S   126000   Left   \$48.17   33   32   structure   R15280   Structures   NorthMain134   IWR   S   128000   Left   \$18.05   32   31   structure   R15254   Structures   NorthMain134   IWR   S   128000   Left   \$48.77   33   32   structure   R15256   Structures   NorthMain134   IWR   S   128000   Left   \$14.56   36   35   structure   R15256   Structures   NorthMain134   IWR   S   128000   Left   \$14.56   36   35   structure   R15256   Structures   NorthMain134   IWR   S   128000   Left   \$14.56   36   35   structure   R15268   Structures   NorthMain134   IWR   S   128000   Left   \$14.56   36   35   structure   R15268   Structures   NorthMain134   IWR   S   128000   Left   \$18.03 |           |                    |          |          |          |      |             |          |      |           |
| R14959   Structures   NorthMain134   WR   IS   80000   Right   \$2.00   25   24  |           |                    |          |          |          |      |             |          |      |           |
| R14962   Structures   NorthMain134   WR   IS   112000   Left   \$0.30   32   31   Structure   R14998   Structures   NorthMain134   WR   IS   126000   Left   \$12.55   36   35   Structure   R15004   Structures   NorthMain134   WR   IS   128000   Left   \$16.94   35   34   Structure   R15073   Structures   NorthMain134   WR   IS   128000   Left   \$25.09   36   35   Structure   R15102   Structures   NorthMain134   WR   IS   128000   Left   \$25.09   36   35   Structure   R15103   Structures   NorthMain134   WR   IS   128000   Left   \$13.62   36   35   Structure   R15110   Structures   NorthMain134   WR   IS   128000   Left   \$12.54   36   35   Structure   R15110   Structures   NorthMain134   WR   IS   128000   Left   \$25.09   36   35   Structure   R15149   Structures   NorthMain134   WR   IS   128000   Left   \$12.64   36   35   Structure   R15180   Structures   NorthMain134   WR   IS   128000   Left   \$23.29   36   35   Structure   R15180   Structures   NorthMain134   WR   IS   128000   Left   \$6.79   36   35   Structure   R15189   Structures   NorthMain134   WR   IS   128000   Left   \$16.96   33   32   Structure   R15199   Structures   NorthMain134   WR   IS   128000   Left   \$18.05   32   31   Structure   R151280   Structures   NorthMain134   WR   IS   128000   Left   \$20.05   36   35   Structure   R15266   Structures   NorthMain134   WR   IS   128000   Left   \$20.05   36   35   Structure   R15266   Structures   NorthMain134   WR   IS   128000   Left   \$20.05   36   35   Structure   R15267   Structures   NorthMain134   WR   IS   128000   Left   \$18.05   32   31   Structure   R15267   Structures   NorthMain134   WR   IS   128000   Left   \$18.03   36   35   Structure   R15268   Structures   NorthMain134   WR   IS   128000   Left   \$18.01   36   35   Structure   R15268   Structures   NorthMain134   WR   IS   128000   Left   \$18.01   36   35   Structure   R15268   Structures   NorthMain134   WR   IS   128000   Left   \$18.61   36   35   Structure   R15268   Structures   NorthMain134   WR   IS   128000   Left   \$18.61   |           |                    |          |          |          |      |             |          |      |           |
| R14998   Structures   NorthMain134   IWR 1S   126000   Left   \$12.55   36   35   1 structure   R15004   Structures   NorthMain134   IWR 1S   128000   Left   \$16.94   35   34   1 structure   R15073   Structures   NorthMain134   IWR 1S   128000   Left   \$25.09   36   35   1 structure   R15102   Structures   NorthMain134   IWR 1S   128000   Left   \$25.09   36   35   1 structure   R15103   Structures   NorthMain134   IWR 1S   128000   Left   \$13.62   36   35   1 structure   R15110   Structures   NorthMain134   IWR 1S   128000   Left   \$12.64   36   36   1 structure   R151149   Structures   NorthMain134   IWR 1S   128000   Left   \$23.29   36   35   1 structure   R15149   Structures   NorthMain134   IWR 1S   128000   Left   \$6.79   36   35   1 structure   R15182   Structures   NorthMain134   IWR 1S   128000   Left   \$6.79   36   35   1 structure   R15199   Structures   NorthMain134   IWR 1S   126000   Left   \$16.96   33   32   1 structure   R15199   Structures   NorthMain134   IWR 1S   126000   Left   \$16.96   33   32   1 structure   R15228   Structures   NorthMain134   IWR 1S   126000   Left   \$48.17   33   32   1 structure   R15228   Structures   NorthMain134   IWR 1S   128000   Left   \$20.05   36   35   1 structure   R15256   Structures   NorthMain134   IWR 1S   128000   Left   \$20.05   36   35   1 structure   R15256   Structures   NorthMain134   IWR 1S   128000   Left   \$21.30   33   32   1 structure   R15261   Structures   NorthMain134   IWR 1S   128000   Left   \$21.30   33   32   1 structure   R15267   Structures   NorthMain134   IWR 1S   128000   Left   \$31.28   25   24   1 structure   R15267   Structures   NorthMain134   IWR 1S   128000   Left   \$31.80   35   1 structure   R15278   Structures   NorthMain134   IWR 1S   128000   Left   \$31.80   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$31.80   35   1 structure   R15316   Structures   NorthMain134   IWR 1S   128000   Left   \$32.81   36   35   1 structure   R15333   Structures   NorthMain134   IWR 1S   128000   Left   \$32 |           |                    |          |          |          |      |             |          |      |           |
| R15004   Structures   NorthMain134   IWR 1S   128000   Left   \$16.94   35   34   1 structure   R15073   Structures   NorthMain134   IWR 1S   98006   Right   \$0.20   31   30   1 structure   R15102   Structures   NorthMain134   IWR 1S   128000   Left   \$25.09   36   35   1 structure   R15103   Structures   NorthMain134   IWR 1S   128000   Left   \$12.64   36   35   1 structure   R15110   Structures   NorthMain134   IWR 1S   128000   Left   \$12.64   36   35   1 structure   R15110   Structures   NorthMain134   IWR 1S   128000   Left   \$12.64   36   35   1 structure   R15149   Structures   NorthMain134   IWR 1S   128000   Left   \$23.29   36   35   1 structure   R15182   Structures   NorthMain134   IWR 1S   128000   Left   \$16.96   33   32   1 structure   R15191   Structures   NorthMain134   IWR 1S   128000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   IWR 1S   128000   Left   \$48.17   33   32   1 structure   R15226   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   1 structure   R15226   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   1 structure   R15256   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15266   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15267   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15278   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15278   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15334   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15334   Structures   NorthMain134   IWR 1S   1280  |           |                    |          |          |          |      |             |          |      |           |
| R15073   Structures   NorthMain134   IWR 1S   98000   Right   \$0.20   31   30   1 structure   R15102   Structures   NorthMain134   IWR 1S   128000   Left   \$25.09   36   35   1 structure   R15103   Structures   NorthMain134   IWR 1S   128000   Left   \$13.62   36   35   1 structure   R15110   Structures   NorthMain134   IWR 1S   128000   Left   \$12.64   36   35   1 structure   R15149   Structures   NorthMain134   IWR 1S   128000   Left   \$23.29   36   35   1 structure   R15182   Structures   NorthMain134   IWR 1S   128000   Left   \$6.79   36   35   1 structure   R15189   Structures   NorthMain134   IWR 1S   128000   Left   \$16.96   33   32   1 structure   R15199   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   1 structure   R15254   Structures   NorthMain134   IWR 1S   128000   Left   \$20.05   36   35   1 structure   R15261   Structures   NorthMain134   IWR 1S   128000   Left   \$21.30   33   32   1 structure   R15267   Structures   NorthMain134   IWR 1S   128000   Left   \$9.75   36   35   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$18.03   36   35   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$18.03   36   35   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$18.03   36   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15334   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15334   Structures   NorthMain134   IWR 1S   128000  |           |                    |          |          |          |      |             |          |      |           |
| R15102   Structures   NorthMain134   WR 1S   128000   Left   \$25.09   36   35   1 structure   R15103   Structures   NorthMain134   WR 1S   129441   Left   \$13.62   36   35   1 structure   R15110   Structures   NorthMain134   WR 1S   128000   Left   \$12.64   36   35   1 structure   R15149   Structures   NorthMain134   WR 1S   128000   Left   \$23.29   36   35   1 structure   R15149   Structures   NorthMain134   WR 1S   128000   Left   \$6.79   36   35   1 structure   R15189   Structures   NorthMain134   WR 1S   128000   Left   \$16.96   33   32   1 structure   R15191   Structures   NorthMain134   WR 1S   128000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   WR 1S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   WR 1S   128000   Left   \$20.05   36   35   1 structure   R152254   Structures   NorthMain134   WR 1S   128000   Left   \$21.30   33   32   1 structure   R15261   Structures   NorthMain134   WR 1S   128000   Left   \$21.30   33   32   1 structure   R15261   Structures   NorthMain134   WR 1S   128000   Left   \$21.30   33   32   1 structure   R15266   Structures   NorthMain134   WR 1S   128000   Left   \$31.28   25   24   1 structure   R15266   Structures   NorthMain134   WR 1S   128000   Left   \$31.28   25   24   1 structure   R15268   Structures   NorthMain134   WR 1S   128000   Left   \$31.80   36   35   1 structure   R15279   Structures   NorthMain134   WR 1S   128000   Left   \$31.80   36   35   1 structure   R15279   Structures   NorthMain134   WR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   WR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   WR 1S   128000   Left   \$18.61   36   35   1 structure   R15336   Structures   NorthMain134   WR 1S   128000   Left   \$18.61   36   35   1 structure   R15333   Structures   NorthMain134   WR 1S   128000   Left   \$25.87   32   31   1 structure   R15339   Structures   NorthMain134   WR 1S   128000   Left   \$25.05    |           |                    |          |          |          |      |             |          |      |           |
| R15103   Structures   NorthMain134   WR 15   129441   Left   \$13.62   36   35   1 structure   R15110   Structures   NorthMain134   WR 15   128000   Left   \$12.64   36   35   1 structure   R15149   Structures   NorthMain134   WR 15   128000   Left   \$23.29   36   35   1 structure   R15149   Structures   NorthMain134   WR 15   128000   Left   \$6.79   36   35   1 structure   R15189   Structures   NorthMain134   WR 15   128000   Left   \$16.96   33   32   1 structure   R15191   Structures   NorthMain134   WR 15   128000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   WR 15   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   WR 15   128000   Left   \$20.05   36   35   1 structure   R15256   Structures   NorthMain134   WR 15   128000   Left   \$21.30   33   32   1 structure   R15256   Structures   NorthMain134   WR 15   128000   Left   \$21.30   33   32   1 structure   R15261   Structures   NorthMain134   WR 15   128000   Left   \$14.56   36   35   1 structure   R15267   Structures   NorthMain134   WR 15   128000   Left   \$39.75   36   35   1 structure   R15268   Structures   NorthMain134   WR 15   128000   Left   \$31.28   25   24   1 structure   R15279   Structures   NorthMain134   WR 15   128000   Left   \$18.03   36   35   1 structure   R15279   Structures   NorthMain134   WR 15   128000   Left   \$14.54   36   35   1 structure   R15336   Structures   NorthMain134   WR 15   128000   Left   \$14.54   36   35   1 structure   R15336   Structures   NorthMain134   WR 15   128000   Left   \$14.54   36   35   1 structure   R15336   Structures   NorthMain134   WR 15   128000   Left   \$18.61   36   35   1 structure   R15338   Structures   NorthMain134   WR 15   128000   Left   \$14.54   36   35   1 structure   R15338   Structures   NorthMain134   WR 15   128000   Left   \$14.54   36   35   1 structure   R15338   Structures   NorthMain134   WR 15   128000   Left   \$14.54   36   35   1 structure   R15338   Structures   NorthMain134   WR 15   128000   Left   \$25.87   3 |           |                    |          |          |          |      |             |          |      |           |
| R15110   Structures   NorthMain134   IWR   S   128000   Left   \$12.64   36   35   1 structure   R15149   Structures   NorthMain134   IWR   S   128000   Left   \$23.29   36   35   1 structure   R15182   Structures   NorthMain134   IWR   S   128000   Left   \$6.79   36   35   1 structure   R15182   Structures   NorthMain134   IWR   S   128000   Left   \$16.96   33   32   1 structure   R15191   Structures   NorthMain134   IWR   S   126000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   IWR   S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   IWR   S   128000   Left   \$20.05   36   35   1 structure   R15256   Structures   NorthMain134   IWR   S   128000   Left   \$20.05   36   35   1 structure   R15256   Structures   NorthMain134   IWR   S   128000   Left   \$21.30   33   32   1 structure   R15261   Structures   NorthMain134   IWR   S   128000   Left   \$14.56   36   35   1 structure   R15261   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   36   35   1 structure   R15268   Structures   NorthMain134   IWR   S   128000   Left   \$9.75   36   35   1 structure   R15268   Structures   NorthMain134   IWR   S   128000   Left   \$18.03   36   35   1 structure   R15278   Structures   NorthMain134   IWR   S   128000   Left   \$18.03   36   35   1 structure   R15279   Structures   NorthMain134   IWR   S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR   S   128000   Left   \$14.54   36   35   1 structure   R15324   Structures   NorthMain134   IWR   S   128000   Left   \$14.54   36   35   1 structure   R15333   Structures   NorthMain134   IWR   S   128000   Left   \$59.81   36   35   1 structure   R15339   Structures   NorthMain134   IWR   S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR   S   128000   Left   \$7.27   36   35   1 structure   R15399   Structures   NorthMain134   IWR   S   128000   Left   \$7.27   36   35   1 structure   R15342   Structures   NorthMain134  |           |                    |          |          |          |      |             |          |      |           |
| R15149   |           |                    |          |          |          |      |             |          |      |           |
| R15182   Structures   NorthMain134   WR   1S   128000   Left   \$6.79   36   35   structure   R15189   Structures   NorthMain134   WR   1S   126000   Left   \$16.96   33   32   1 structure   R15191   Structures   NorthMain134   WR   1S   126000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   WR   1S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   WR   1S   128000   Left   \$20.05   36   35   1 structure   R15228   Structures   NorthMain134   WR   1S   128000   Left   \$21.30   33   32   1 structure   R15256   Structures   NorthMain134   WR   1S   128000   Left   \$21.30   33   32   1 structure   R15261   Structures   NorthMain134   WR   1S   128000   Left   \$9.75   36   35   1 structure   R15267   Structures   NorthMain134   WR   1S   128000   Left   \$9.75   36   35   1 structure   R15268   Structures   NorthMain134   WR   1S   128000   Left   \$18.03   36   35   1 structure   R15278   Structures   NorthMain134   WR   1S   128000   Left   \$18.03   36   35   1 structure   R15279   Structures   NorthMain134   WR   1S   128000   Left   \$14.54   36   35   1 structure   R15316   Structures   NorthMain134   WR   1S   128000   Left   \$14.54   36   35   1 structure   R15333   Structures   NorthMain134   WR   1S   128000   Left   \$25.87   32   31   structure   R15333   Structures   NorthMain134   WR   1S   128000   Left   \$25.87   32   31   structure   R15333   Structures   NorthMain134   WR   1S   128000   Left   \$25.87   36   35   1 structure   R15338   Structures   NorthMain134   WR   1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   WR   1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   WR   1S   128000   Left   \$7.69   36   35   1 structure   R15394   Structures   NorthMain134   WR   1S   128000   Left   \$7.69   36   35   1 structure   R15394   Structures   NorthMain134   WR   1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   WR     |           |                    |          |          |          |      |             |          |      |           |
| R15189   Structures   NorthMain134   IWR_1S   126000   Left   \$16.96   33   32   1 structure   R15191   Structures   NorthMain134   IWR_1S   126000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   IWR_1S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   IWR_1S   128000   Left   \$20.05   36   35   1 structure   R15228   Structures   NorthMain134   IWR_1S   128000   Left   \$21.30   33   32   1 structure   R15254   Structures   NorthMain134   IWR_1S   128000   Left   \$48.17   33   32   1 structure   R15254   Structures   NorthMain134   IWR_1S   128000   Left   \$21.30   33   32   1 structure   R15256   Structures   NorthMain134   IWR_1S   128000   Left   \$41.56   36   35   1 structure   R15267   Structures   NorthMain134   IWR_1S   128000   Left   \$31.28   25   24   1 structure   R15268   Structures   NorthMain134   IWR_1S   128000   Left   \$18.03   36   35   1 structure   R15278   Structures   NorthMain134   IWR_1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR_1S   128000   Left   \$18.61   36   35   1 structure   R15334   Structures   NorthMain134   IWR_1S   128000   Left   \$14.54   36   35   1 structure   R15333   Structures   NorthMain134   IWR_1S   128000   Left   \$104.50   35   34   1 structure   R15333   Structures   NorthMain134   IWR_1S   128000   Left   \$59.81   36   35   1 structure   R15338   Structures   NorthMain134   IWR_1S   128000   Left   \$59.81   36   35   1 structure   R15394   Structures   NorthMain134   IWR_1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15396   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   |           |                    |          |          |          |      |             |          |      |           |
| R15191   Structures   NorthMain134   IWR 1S   126000   Left   \$48.17   33   32   1 structure   R15199   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   1 structure   R15228   Structures   NorthMain134   IWR 1S   128000   Left   \$20.05   36   35   1 structure   R15254   Structures   NorthMain134   IWR 1S   128000   Left   \$21.30   33   32   1 structure   R15256   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15261   Structures   NorthMain134   IWR 1S   128000   Left   \$9.75   36   35   1 structure   R15267   Structures   NorthMain134   IWR 1S   128000   Left   \$31.28   25   24   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$18.03   36   35   1 structure   R15278   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15216   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15316   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15316   Structures   NorthMain134   IWR 1S   128000   Left   \$104.50   35   34   1 structure   R15333   Structures   NorthMain134   IWR 1S   128000   Left   \$59.81   36   35   1 structure   R15333   Structures   NorthMain134   IWR 1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR 1S   128000   Left   \$7.27   36   35   1 structure   R15396   Structures   NorthMain134   IWR 1S   128000   Left   \$7.27   36   35   1 structure   R15399   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15399   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15443   Structures   NorthMain134   IWR 1S   128000   L  |           |                    |          |          |          |      |             |          |      |           |
| R15199   Structures   NorthMain134   IWR 1S   128000   Left   \$18.05   32   31   structure   R15228   Structures   NorthMain134   IWR 1S   128000   Left   \$20.05   36   35   structure   R15254   Structures   NorthMain134   IWR 1S   128000   Left   \$21.30   33   32   1 structure   R15256   Structures   NorthMain134   IWR 1S   128000   Left   \$14.56   36   35   1 structure   R15261   Structures   NorthMain134   IWR 1S   128000   Left   \$9.75   36   35   1 structure   R15267   Structures   NorthMain134   IWR 1S   128000   Left   \$31.28   25   24   1 structure   R15268   Structures   NorthMain134   IWR 1S   128000   Left   \$18.03   36   35   1 structure   R15278   Structures   NorthMain134   IWR 1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15316   Structures   NorthMain134   IWR 1S   128000   Left   \$14.54   36   35   1 structure   R15324   Structures   NorthMain134   IWR 1S   128000   Left   \$25.87   32   31   1 structure   R15333   Structures   NorthMain134   IWR 1S   128000   Left   \$59.81   36   35   1 structure   R15338   Structures   NorthMain134   IWR 1S   128000   Left   \$59.81   36   35   1 structure   R15394   Structures   NorthMain134   IWR 1S   128000   Left   \$7.27   36   35   1 structure   R15399   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15399   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR 1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR 1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR 1S   128000   Left   \$8.99   36   35   1 structure   R154443   Structures   NorthMain134   IWR 1S   128000   Left    |           |                    |          |          |          |      |             |          |      |           |
| R15228   Structures   NorthMain134   IWR 1S   124000   Left   \$20.05   36   35   1 structure  |           |                    |          |          |          |      |             |          |      |           |
| R15254   Structures   NorthMain134   IWR   IS   128000   Left   \$21.30   33   32   1 structure  |           |                    |          |          |          |      |             |          |      |           |
| R15256   Structures   NorthMain134   IWR   IS   128000   Left   \$14.56   36   35   1 structure  |           |                    |          |          |          |      |             |          |      |           |
| R15261   Structures   NorthMain134   IWR   1S   124000   Left   \$9.75   36   35   1 structure   |           |                    |          |          |          |      |             |          |      |           |
| R15267   Structures   NorthMain134   IWR_1S   86000   Left   \$31.28   25   24   1 structure   |           |                    |          |          |          |      |             |          |      |           |
| R15268   Structures   NorthMain134   IWR_1S   128000   Left   \$18.03   36   35   1 structure   R15278   Structures   NorthMain134   IWR_1S   128000   Left   \$18.61   36   35   1 structure   R15279   Structures   NorthMain134   IWR_1S   128000   Left   \$14.54   36   35   1 structure   R15316   Structures   NorthMain134   IWR_1S   126000   Left   \$25.87   32   31   1 structure   R15324   Structures   NorthMain134   IWR_1S   128000   Left   \$104.50   35   34   1 structure   R15333   Structures   NorthMain134   IWR_1S   126000   Left   \$59.81   36   35   1 structure   R15338   Structures   NorthMain134   IWR_1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR_1S   128000   Left   \$25.13   36   35   1 structure   R15396   Structures   NorthMain134   IWR_1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR_1S   128000   L  |           |                    |          |          |          |      |             |          | 35 1 | structure |
| R15278   Structures   NorthMain134   IWR_1S   128000   Left   \$18.61   36   35   1 structure  |           |                    |          |          |          |      |             |          |      |           |
| R15279   Structures   NorthMain134   IWR_1S   128000   Left   \$14.54   36   35   1 structure   R15316   Structures   NorthMain134   IWR_1S   126000   Left   \$25.87   32   31   1 structure   R15324   Structures   NorthMain134   IWR_1S   128000   Left   \$104.50   35   34   1 structure   R15333   Structures   NorthMain134   IWR_1S   126000   Left   \$59.81   36   35   1 structure   R15338   Structures   NorthMain134   IWR_1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR_1S   128000   Left   \$25.13   36   35   1 structure   R15396   Structures   NorthMain134   IWR_1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000  |           |                    |          |          |          |      |             |          | 35 1 | structure |
| R15316   Structures   NorthMain134   IWR_1S   126000   Left   \$25.87   32   31   1 structure   R15324   Structures   NorthMain134   IWR_1S   128000   Left   \$104.50   35   34   1 structure   R15333   Structures   NorthMain134   IWR_1S   126000   Left   \$59.81   36   35   1 structure   R15338   Structures   NorthMain134   IWR_1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR_1S   128000   Left   \$25.13   36   35   1 structure   R15396   Structures   NorthMain134   IWR_1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000  |           |                    |          |          |          |      |             |          |      |           |
| R15324 Structures NorthMain134 WR_1S 128000 Left \$104.50 35 34 1 structure R15333 Structures NorthMain134 WR_1S 126000 Left \$59.81 36 35 1 structure R15338 Structures NorthMain134 WR_1S 128000 Left \$7.27 36 35 1 structure R15394 Structures NorthMain134 WR_1S 126000 Left \$25.13 36 35 1 structure R15396 Structures NorthMain134 WR_1S 128000 Left \$20.81 36 35 1 structure R15399 Structures NorthMain134 WR_1S 128000 Left \$7.69 36 35 1 structure R15399 Structures NorthMain134 WR_1S 128000 Left \$7.69 36 35 1 structure R15416 Structures NorthMain134 WR_1S 128000 Left \$52.05 34 33 1 structure R15442 Structures NorthMain134 WR_1S 128000 Left \$8.99 36 35 1 structure R15443 Structures NorthMain134 WR_1S 128000 Left \$8.99 36 35 1 structure R15443 Structures NorthMain134 WR_1S 128000 Left \$18.37 35 34 1 structure   |           |                    |          |          |          |      |             |          |      |           |
| R15333   Structures   NorthMain134   IWR_1S   126000   Left   \$59.81   36   35   1 structure   R15338   Structures   NorthMain134   IWR_1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   IWR_1S   126000   Left   \$25.13   36   35   1 structure   R15396   Structures   NorthMain134   IWR_1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   R1545        |           |                    |          |          |          |      |             |          | 31 1 | structure |
| R15338 Structures NorthMain134   WR_1S   128000   Left   \$7.27   36   35   1 structure   R15394   Structures   NorthMain134   WR_1S   126000   Left   \$25.13   36   35   1 structure   R15396   Structures   NorthMain134   WR_1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   WR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   WR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   WR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   WR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15443   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   WR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   R15455   |           |                    |          |          |          |      |             |          |      |           |
| R15394   Structures   NorthMain134   IWR 1S   126000   Left   \$25.13   36   35   1 structure   R15396   Structures   NorthMain134   IWR 1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   IWR 1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR 1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR 1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   IWR 1S   128000   Left   \$18.37   35   34   1 structure   R15456   Structures   NorthMain134   R1546   R1546         |           |                    |          |          |          |      |             |          |      |           |
| R15396   Structures   NorthMain134   IWR_1S   128000   Left   \$20.81   36   35   1 structure   R15399   Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   R1545         |           |                    |          |          |          |      |             |          | 35 1 | structure |
| R15399 Structures   NorthMain134   IWR_1S   128000   Left   \$7.69   36   35   1 structure   R15416   Structures   NorthMain134   IWR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15445   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R1545          |           |                    |          |          |          |      |             |          |      |           |
| R15416 Structures   NorthMain134   IWR_1S   128000   Left   \$52.05   34   33   1 structure   R15442   Structures   NorthMain134   IWR_1S   128000   Left   \$8.99   36   35   1 structure   R15443   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   Structures   NorthMain134   IWR_1S   128000   Left   \$18.37   35   34   1 structure   R15455   R15555               |           |                    |          |          |          |      |             |          |      |           |
| R15442 Structures NorthMain134 IWR_1S 128000 Left \$8.99 36 35 1 structure R15443 Structures NorthMain134 IWR_1S 128000 Left \$18.37 35 34 1 structure   |           |                    |          |          |          |      |             |          |      |           |
| R15443 Structures NorthMain134 WR_1S 128000 Left \$18.37 35 34 1 structure   |           |                    |          |          |          |      |             |          |      |           |
| 215455 Structure New Hold 1940 400 40000 1 6   |           |                    |          |          |          |      |             |          |      |           |
| Structures NorthMain134 IWR_1S 128000 Left \$7.20 33 32 1 structure  |           |                    |          |          |          |      |             |          | 34 1 | structure |
|  | K 10400   | Structures   North | iwain134 | IWK_1S   | 128000 L | _ett | \$7.20      | 33       | 32 1 | structure |

| Struc Nar | ne Cat name | Stream_name           | Occ Name | Station              | Bank | Struc Val          | 1E Stone | Grnd_Stage Notes |
|-----------|-------------|-----------------------|----------|----------------------|------|--------------------|----------|------------------|
| R15459    |             | NorthMain134          | IWR 1S   | 126000               |      | \$18.58            | 34       | 33 1 structure   |
| R15466    |             | NorthMain134          | IWR 1S   | 128000               |      | \$6.59             | 36       | 35 1 structure   |
| R15467    |             | NorthMain134          | IWR_1S   | 126000               |      | \$12.97            | 34       | 33 1 structure   |
| R15470    |             | NorthMain134          | IWR 1S   | 126000               |      | \$5.50             | 36       |                  |
| R15471    |             | NorthMain134          | IWR 1S   | 126000               |      | \$23.59            | 36       | 35 1 structure   |
| R15487    |             | NorthMain134          | IWR 1S   | 126000               |      | \$8.91             | 36       | 35 1 structure   |
| R15503    |             | NorthMain134          | IWR 1S   | 126000               |      | \$16.05            | 36       | 35 1 structure   |
| R15506    |             | NorthMain134          | IWR_1S   | 126000               |      | \$13.49            | 32       | 35 1 structure   |
| R15592    |             | NorthMain134          | IWR 1S   | 124000               |      | \$16.66            | 36       | 31 1 structure   |
| R15593    |             | NorthMain134          | IWR 1S   | 124000               |      | \$5.87             | 36       | 35 1 structure   |
| R15594    |             | NorthMain134          | IWR 1S   | 128000               |      | \$18.36            | 36       | 35 1 structure   |
| R15595    |             | NorthMain134          | IWR 1S   | 128000               |      | \$10.07            | 36       | 35 1 structure   |
| R15597    |             | NorthMain134          | IWR 1S   | 124000               |      | \$10.07            | 36       | 35 1 structure   |
| R15598    |             | NorthMain134          | IWR 1S   | 124000               |      | \$27.58            | 36       | 35 1 structure   |
| R15622    |             | NorthMain134          | IWR 1S   | 128000               |      | \$7.50             | 36       | 35 1 structure   |
| R15645    |             | NorthMain134          | IWR_1S   | 128000               |      | \$22.09            | 36       | 35 1 structure   |
| R15647    |             | NorthMain134          | IWR 1S   | 128000               |      | \$28.43            | 35       | 35 1 structure   |
| R15650    |             | NorthMain134          | IWR_1S   | 128000               |      | \$25.39            |          | 34 1 structure   |
| R15655    |             | NorthMain134          | IWR_1S   | 128000               |      | \$10.44            | 36       | 35 1 structure   |
| R15657    |             | NorthMain134          | IWR 1S   | 128000               |      | \$21.70            | 36<br>36 | 35 1 structure   |
| R15686    |             | NorthMain134          | IWR_1S   | 128000               |      | \$16.41            | 36       | 35 1 structure   |
| R15687    |             | NorthMain134          | IWR 1S   | 128000               |      | \$11.63            | 36       | 35 1 structure   |
| R15716    |             | NorthMain134          | IWR 1S   | 128000               |      | \$18.78            | 36       | 35 1 structure   |
| R15719    |             | NorthMain134          | IWR 1S   | 124000               |      | \$17.82            |          | 35 1 structure   |
| R15720    |             | NorthMain134          | IWR_1S   | 128000               |      | \$17.82            | 36<br>36 | 35 1 structure   |
| R15737    |             | NorthMain134          | IWR_1S   | 126000               |      |                    |          | 35 1 structure   |
| R15737    |             | NorthMain134          | IWR 1S   | 128000               |      | \$13.43            | 32       | 31 1 structure   |
| R15738    |             | NorthMain134          | IWR_1S   | 126000               |      | \$13.43<br>\$7.00  | 36       | 35 1 structure   |
| R15828    |             | NorthMain134          | IWR_1S   | 128000               |      |                    | 32       | 31 1 structure   |
| R15829    |             | NorthMain134          | IWR 1S   | 126000               |      | \$10.37<br>\$16.69 | 33       | 32 1 structure   |
| R15911    |             | NorthMain134          | IWR 1S   | 128000               |      | \$20.41            | 36<br>36 | 35 1 structure   |
| R15917    |             | NorthMain134          | IWR_1S   | 128000               |      | \$15.02            | 36       | 35 1 structure   |
| R15919    |             | NorthMain134          | IWR 1S   | 128000               |      | \$13.02            | 36       | 35 1 structure   |
| R15920    |             | NorthMain134          | IWR_1S   | 128000               |      | \$30.11            | 36       | 35 1 structure   |
| R15930    |             | NorthMain134          | IWR 1S   | 113338               |      | \$5.99             | 36       | 35 1 structure   |
| R16001    |             | NorthMain134          | IWR_1S   | 126000               |      | \$42.78            | 36       | 35 1 structure   |
| R16067    |             | NorthMain134          | IWR 1S   | 126000               |      | \$21.58            | 36       | 35 1 structure   |
| R16154    |             | NorthMain134          | IWR 1S   | 129441               |      | \$0.50             | 35       | 35 1 structure   |
| R16179    |             | NorthMain134          | IWR_1S   | 126000               |      | \$7.21             |          | 34 1 structure   |
| R16226    |             | NorthMain134          | IWR 1S   | 126000               |      | \$25.70            | 36       | 35 1 structure   |
| R16246    |             | NorthMain134          | IWR_1S   | 112000               |      | \$0.30             | 36       | 35 1 structure   |
| R16272    |             | NorthMain134          | IWR 1S   | 126000               |      | \$5.37             | 32       | 31 1 structure   |
| R16302    |             | NorthMain134          | IWR 1S   | 126000 1             |      | \$16.74            | 36       | 31 1 structure   |
| R16308    |             | NorthMain134          | IWR 1S   | 124000 1             |      | \$28.48            | 36       | 35 1 structure   |
| R16424    |             | NorthMain134          | IWR_1S   | 128000 1             |      | \$6.91             | 36       | 35 1 structure   |
| R16457    |             | NorthMain134          | IWR_1S   | 82000 1              |      | \$0.90             | 26       | 35 1 structure   |
| R16496    |             | NorthMain134          | IWR_1S   | 126000 [             |      | \$28.01            |          | 25 1 structure   |
| R16502    |             | NorthMain134          | IWR_1S   | 94000 1              |      | \$60.39            | 29       | 31 1 structure   |
| R16505    |             | NorthMain134          | IWR_1S   | 128000 L             |      |                    | 36       | 28 1 structure   |
| R16529    |             | NorthMain134          | IWR 1S   | 144000 L             |      | \$29.44            |          | 35 1 structure   |
| R16547    |             | NorthMain134          | IWR_1S   |                      |      | \$11.09            | 38       | 37 1 structure   |
| R16611    |             | NorthMain134          | IWR_1S   | 128000 L             |      | \$31.05            | 36       | 35 1 structure   |
| R16613    |             | NorthMain134          | IWR_1S   | 128000 L             |      | \$6.39             | 36       | 35 1 structure   |
| R16614    |             | NorthMain134          | IWR 1S   | 128000 L<br>128000 L |      | \$24.29            | 36       | 35 1 structure   |
| R16624    |             | NorthMain134          | IWR_1S   | 140000 L             |      | \$5.27             | 36       | 35 1 structure   |
| R16628    |             | NorthMain134          | IWR_1S   | 128000 L             |      | \$17.25<br>\$10.53 | 36       | 39 1 structure   |
| 110020    | Suddidies   | NOI II II VIAITI I 34 | IVVI IS  | 120000 L             | CIL  | φ10.53             | 30       | 35 1 structure   |

| Struc_Nar | me Cat name | Stream_name  | Occ_Name | Station  | Bank | Struc Vol          | 1E Ctore i C-  |      | <del></del> |
|-----------|-------------|--------------|----------|----------|------|--------------------|----------------|------|-------------|
| R16629    |             | NorthMain134 | IWR_1S   | 124000   |      | Suuc_vai           | 1F_Stage   Grr |      |             |
| R16731    |             | NorthMain134 | IWR 1S   | 129441   |      | \$7.76             |                |      | 1 structure |
| R16761    |             | NorthMain134 | IWR 1S   | 128000   |      | \$25.71            | 35             |      | 1 structure |
| R16764    |             | NorthMain134 | IWR 1S   | 128000   |      | \$32.12            | 36             |      | 1 structure |
| R16789    |             | NorthMain134 | IWR 1S   | 86000    |      | \$24.19<br>\$58.63 | 36             |      | 1 structure |
| R16824    |             | NorthMain134 | IWR_1S   | 128000   |      |                    | 31             |      | 1 structure |
| R16829    |             | NorthMain134 | IWR 1S   | 128000   |      | \$16.69            | 36             |      | 1 structure |
| R16832    |             | NorthMain134 | IWR 1S   | 128000   |      | \$11.59            | 33             |      | 1 structure |
| R16833    |             | NorthMain134 | IWR 1S   | 124000   |      | \$38.26            | 36             |      | 1 structure |
| R16834    |             | NorthMain134 | IWR 1S   | 128000   |      | \$31.49            | 36             |      | 1 structure |
| R16850    |             | NorthMain134 | IWR 1S   | 124000   |      | \$21.19            | 36             |      | 1 structure |
| R16852    |             | NorthMain134 | IWR 1S   | 122908   |      | \$21.02            | 36             |      | 1 structure |
| R16864    |             | NorthMain134 | IWR_1S   | 128000   |      | \$13.06            | 31             |      | 1 structure |
| R16877    |             | NorthMain134 | IWR 1S   | 126000   |      | \$12.49            | 36             |      | 1 structure |
| R16879    |             | NorthMain134 | IWR 1S   | 126000   |      | \$12.90            | 36             |      | 1 structure |
| R16908    |             | NorthMain134 | IWR 1S   | 128000   |      | \$12.20            | 36             |      | 1 structure |
| R16911    |             | NorthMain134 | IWR 1S   | 126000   |      | \$29.37            | 33             |      | 1 structure |
| R16933    |             | NorthMain134 | IWR 1S   | 128000   |      | \$34.28            | 32             |      | 1 structure |
| R16942    |             | NorthMain134 | IWR_1S   | 126000   |      | \$23.75            | 34             |      | 1 structure |
| R16955    |             | NorthMain134 | IWR 1S   | 128000   |      | \$30.52<br>\$7.00  | 36             |      | 1 structure |
| R16959    |             | NorthMain134 | IWR 1S   | 126000   |      |                    | 34             |      | 1 structure |
| R16972    |             | NorthMain134 | IWR_1S   | 128000   |      | \$32.90            | 36             |      | 1 structure |
| R16978    |             | NorthMain134 | IWR 1S   | 128000   |      | \$18.62            | 34             |      | 1 structure |
| R16988    |             | NorthMain134 | IWR 1S   | 124000   |      | \$18.29            | 36             |      | 1 structure |
| R16989    |             | NorthMain134 | IWR 1S   | 124000   |      | \$9.18             | 36             |      | 1 structure |
| R17003    |             | NorthMain134 | IWR_1S   | 128000   |      | \$22.81            | 36             |      | 1 structure |
| R17007    |             | NorthMain134 | IWR 1S   | 128000   |      | \$17.32            | 36             |      | 1 structure |
| R17012    |             | NorthMain134 | IWR 1S   | 128000   |      | \$6.22             | 36             |      | 1 structure |
| R17143    |             | NorthMain134 | IWR 1S   | 128000   |      | \$4.13             | 36             |      | structure   |
| R17144    |             | NorthMain134 | IWR 1S   | 126000   |      | \$19.34            | 35             |      | structure   |
| R17149    |             | NorthMain134 | IWR_1S   | 128000   |      | \$33.62            | 35             |      | structure   |
| R17150    |             | NorthMain134 | IWR 1S   | 128000   |      | \$6.82             | 36             |      | structure   |
| R17156    |             | NorthMain134 | IWR 1S   | 128000   |      | \$17.39            | 36             |      | structure   |
| R17168    |             | NorthMain134 | IWR_1S   | 128000   |      | \$14.54<br>\$11.06 | 36             |      | structure   |
| R17174    |             | NorthMain134 | IWR 1S   | 128000   |      |                    | 36             |      | structure   |
| R17175    |             | NorthMain134 | IWR_1S   | 128000   |      | \$13.98<br>\$10.92 | 36             |      | structure   |
| R17280    |             | NorthMain134 | IWR 1S   | 129441   |      |                    | 36             |      | structure   |
| R17285    |             | NorthMain134 | IWR 1S   | 80000    |      | \$30.28            | 35             |      | structure   |
| R17367    |             | NorthMain134 | IWR_1S   | 128000   |      | T                  | 26             |      | structure   |
| R17368    |             | NorthMain134 | IWR_1S   | 128000   |      | \$9.20<br>\$14.55  | 36             |      | structure   |
| R17417    |             | NorthMain134 | IWR_1S   | 118000   |      | \$9.03             | 36             |      | structure   |
| R17433    |             | NorthMain134 | IWR_1S   | 128000   |      | \$18.67            | 33             |      | structure   |
| R17435    |             | NorthMain134 | IWR_1S   | 128000   |      | \$27.39            | 36             |      | structure   |
| R17437    |             | NorthMain134 | IWR_1S   | 129441   |      | \$16.80            | 36             |      | structure   |
| R17451    |             | NorthMain134 | IWR 1S   | 126000   |      | \$36.64            | 31             |      | structure   |
| R17456    |             | NorthMain134 | IWR 1S   | 128000   |      | \$5.72             | 32             |      | structure   |
| R17463    |             | NorthMain134 | IWR_1S   | 126000 1 |      | \$32.72            | 36             |      | structure   |
| R17473    |             | NorthMain134 | IWR_1S   | 128000 1 |      | \$9.68             | 36             |      | structure   |
| R17528    |             | NorthMain134 | IWR_1S   | 128000 1 |      |                    | 36             |      | structure   |
| R17534    |             | NorthMain134 | IWR 1S   | 124000 L |      | \$29.43            | 33             |      | structure   |
| R17579    |             | NorthMain134 | IWR_1S   | 128000 [ |      | \$24.07            | 36             |      | structure   |
| R17584    |             | orthMain134  | IWR_1S   | 128000 L |      | \$20.39            | 33             |      | structure   |
| R17589    |             | VorthMain134 | IWR_1S   | 124000 L |      | \$27.33            | 36             |      | structure   |
| R17605    |             | orthMain134  | IWR_1S   | 129441 L |      | \$6.66             | 36             |      | structure   |
| R17647    |             | lorthMain134 | IWR_1S   | 128000 L |      | \$54.89            | 36             |      | structure   |
| R17668    |             | lorthMain134 | IWR_1S   | 128000 L |      | \$21.05            | 36             |      | structure   |
|           | ,           |              |          | 120000 L | .en  | \$12.31            | 33             | 32 1 | structure   |

| Struc Name | Cat name   | Stream_name                  | Occ Name | Station | Bank        | Struc Val          | 1E Stage | Grnd_Stage | Notos                      |
|------------|------------|------------------------------|----------|---------|-------------|--------------------|----------|------------|----------------------------|
| R17671     |            | NorthMain134                 | IWR 1S   | 124000  |             | \$26.04            | 36       |            | 1 structure                |
| R17674     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$7.13             |          |            | 1 structure                |
| R17724     |            | NorthMain134                 | IWR_1S   | 126000  |             | \$33.46            | 35       |            | 1 structure                |
| R17726     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$31.20            | 36       |            | 1 structure                |
| R17727     |            | NorthMain134                 | IWR_1S   | 128000  |             | \$11.98            | 36       |            | 1 structure                |
| R17729     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$5.21             | 36       |            | 1 structure                |
| R17730     |            | NorthMain134                 | IWR_1S   | 128000  |             | \$8.02             | 36       |            | 1 structure                |
| R17735     |            | NorthMain134                 | IWR 1S   | 126000  |             | \$30.66            | 36       |            | 1 structure                |
| R17784     |            | NorthMain134                 | IWR 1S   | 129441  |             | \$29.95            | 34       |            | 1 structure                |
| R17791     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$4.32             | 36       |            | 1 structure                |
| R17821     |            | NorthMain134                 | IWR 1S   | 129441  |             | \$18.58            | 36       |            |                            |
| R17825     |            | NorthMain134                 | IWR 1S   | 102000  |             | \$26.75            | 32       |            | 1 structure                |
| R17826     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$4.93             | 36       |            | 1 structure                |
| R17835     |            | NorthMain134                 | IWR_1S   | 124000  |             | \$11.03            | 36       |            | 1 structure                |
| R17840     |            | NorthMain134                 | IWR_1S   | 126000  |             | \$25.84            | 36       |            | 1 structure                |
| R17855     |            | NorthMain134                 | IWR 1S   | 124000  |             | \$9.32             | 36       |            | 1 structure                |
| R17876     |            | NorthMain134                 | IWR 1S   | 124000  |             | \$0.50             |          |            | 1 structure                |
| R17897     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$33.93            | 36<br>36 |            | 1 structure                |
| R17898     |            | NorthMain134                 | IWR 1S   | 126000  |             | \$38.23            | 35       |            | 1 structure                |
| R17900     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$16.33            | 36       |            | 1 structure                |
| R17901     |            | NorthMain134                 | IWR_1S   | 128000  |             | \$33.39            | 36       |            | 1 structure                |
| R17902     |            | NorthMain134                 | IWR_1S   | 128000  | <del></del> |                    | 36       |            | 1 structure                |
| R17905     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$8.56<br>\$27.40  | 36       |            | 1 structure                |
| R17930     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$27.40            | 36       |            | 1 structure                |
| R17956     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$6.23             | 33       |            | 1 structure                |
| R17962     |            | NorthMain134                 | IWR_1S   | 128000  |             | \$27.44            | 36       |            | 1 structure                |
| R17975     |            | NorthMain134                 | IWR_1S   | 128000  |             | \$7.56             | 36       |            | 1 structure                |
| R17989     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$33.50            | 36       |            | 1 structure                |
| R18047     |            | NorthMain134                 | IWR_1S   | 128000  |             | \$23.94            | 36       |            | 1 structure                |
| R18054     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$12.17            |          |            | 1 structure                |
| R18116     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$14.83            | 36<br>35 |            | 1 structure                |
| R18163     |            | NorthMain134                 | IWR 1S   | 104000  |             | \$29.02            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 106000  |             | \$29.02            | 32       |            | 1 structure                |
| R18174     |            | NorthMain134                 | IWR_1S   | 126000  |             | \$29.79            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 128000  |             | \$29.79            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 108000  |             | \$113.20           | 32       |            | 1 structure                |
| R18265     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$14.62            | 36       |            | 1 structure                |
| R18271     |            | NorthMain134                 | IWR 1S   | 128000  |             | \$23.09            | 36       |            | 1 structure<br>1 structure |
|            |            | NorthMain134                 | IWR_1S   | 128000  |             | \$23.82            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 128000  |             | \$6.62             | 34       |            |                            |
|            |            | NorthMain134                 | IWR_1S   | 126000  |             | \$11.42            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 86000   |             | \$27.06            | 25       |            | 1 structure<br>1 structure |
|            |            | NorthMain134                 | IWR_1S   | 124000  |             | \$34.00            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 124000  |             | \$51.97            | 36       |            |                            |
|            |            | NorthMain134                 | IWR_1S   | 124000  |             | \$14.34            | 36       |            | 1 structure<br>1 structure |
|            |            | NorthMain134                 | IWR_1S   | 126000  |             | \$10.00            | 36       |            |                            |
|            |            | NorthMain134                 | IWR_1S   | 126000  |             |                    |          |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 98000   |             | \$17.38<br>\$50.00 | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_IS   | 126000  |             |                    |          |            | 1 structure                |
|            |            | NorthMain134                 |          |         |             | \$45.30            | 33       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 86000   |             | \$27.73            | 30       |            | 1 structure                |
|            |            |                              | IWR_1S   | 86000   |             | \$6.57             | 30       |            | 1 structure                |
|            |            | NorthMain134<br>NorthMain134 | IWR_1S   | 86000   |             | \$38.45            | 31       |            | 1 structure                |
|            |            |                              | IWR_1S   | 128000  |             | \$34.67            | 34       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 128000  |             | \$15.87            | 36       |            | 1 structure                |
|            |            | NorthMain134                 | IWR_1S   | 126000  |             | \$26.37            | 36       |            | structure                  |
| R18576     | Structures | NorthMain134                 | IWR_1S   | 128000  | Len         | \$26.37            | 36       | 35         | 1 structure                |

| Struc Nam        | eCat name | Stream_name                  | Occ_Name         | Ctation          | Donle | 104               |     |            |                     |
|------------------|-----------|------------------------------|------------------|------------------|-------|-------------------|-----|------------|---------------------|
| R18583           |           | NorthMain134                 | IWR 1S           |                  | Bank  | Struc_Val         |     | Grnd_Stage |                     |
| R18683           |           | NorthMain134                 |                  | 128000           |       | \$34.48           | 36  |            | 1 structure         |
| R18684           |           | NorthMain134                 | IWR 1S           | 104000           |       | \$8.72            |     |            | 1 structure         |
| R18702           |           |                              | IWR_1S           | 104000           |       | \$20.16           | 35  |            | 1 structure         |
| R18756           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$39.96           | 36  | 35         | 1 structure         |
| R18757           |           | NorthMain134                 | IWR_1S           | 136000           |       | \$11.27           | 35  | 34         | 1 structure         |
| R18782           |           | NorthMain134                 | IWR_1S           | 134000           |       | \$58.59           | 35  | 34         | 1 structure         |
| R18785           |           | NorthMain134                 | IWR_1S           | 112624           |       | \$15.22           | 36  | 35         | 1 structure         |
|                  |           | NorthMain134                 | IWR_1S           | 94000            |       | \$38.40           | 28  | 27         | 1 structure         |
| R18840           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$31.41           | 36  | 35         | 1 structure         |
| R18843           |           | NorthMain134                 | IWR_1S           | 147159           |       | \$77.97           | 40  | 39         | 1 structure         |
| R18871<br>R18879 |           | NorthMain134                 | IWR_1S           | 126000           |       | \$12.67           | 34  | 33         | 1 structure         |
| R18891           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$6.54            | 32  |            | 1 structure         |
| R18899           |           | NorthMain134                 | IWR_1S           | 129441           |       | \$14.34           | 36  | 35         | 1 structure         |
| R18904           |           | NorthMain134                 | IWR_1S           | 80000            |       | \$12.79           | 25  |            | 1 structure         |
| R18920           |           | NorthMain134                 | IWR_1S           | 98000            |       | \$0.20            | 35  |            | 1 structure         |
| R18945           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$32.72           | 36  |            | 1 structure         |
| R19011           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$20.25           | 34  |            | 1 structure         |
| R19067           |           | NorthMain134                 | IWR_1S           | 120000           |       | \$22.98           | 32  |            | 1 structure         |
| R19124           |           | NorthMain134                 | IWR_1S           | 138000           |       | \$92.13           | 38  |            | 1 structure         |
| R19147           |           | NorthMain134<br>NorthMain134 | IWR_1S           | 128000           |       | \$13.98           | 36  |            | 1 structure         |
| R19179           |           |                              | IWR_1S           | 128000           |       | \$18.48           | 36  |            | 1 structure         |
| R19186           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$12.83           | 36  |            | 1 structure         |
| R19235           |           | NorthMain134<br>NorthMain134 | IWR_1S           | 128000           |       | \$10.18           | 35  |            | 1 structure         |
| R19263           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$27.42           | 36  |            | 1 structure         |
| R19278           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$4.88            | 32  |            | 1 structure         |
| R19285           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$11.25           | 32  |            | 1 structure         |
| R19327           |           | NorthMain134                 | IWR_1S           | 86000            |       | \$38.88           | 28  |            | 1 structure         |
| R19357           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$0.82            | 36  |            | 1 structure         |
| R19399           |           | NorthMain134                 | IWR_1S           | 140000           |       | \$34.42           | 40  |            | 1 structure         |
| R19410           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$45.03           | 36  |            | 1 structure         |
| R19418           |           | NorthMain134                 | IWR_1S<br>IWR 1S | 128000           |       | \$8.07            | 36  |            | 1 structure         |
| R19424           |           | NorthMain134                 | IWR 1S           | 88000            |       | \$11.07           | 30  |            | 1 structure         |
| R19426           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$25.19           | 36  |            | 1 structure         |
| R19428           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$27.94           | 36  |            | t structure         |
| R19429           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$3.72            | 36  |            | 1 structure         |
| R19440           |           | NorthMain134                 | IWR 1S           | 128000<br>126000 |       | \$9.36            | 36  |            | structure           |
| R19454           |           | NorthMain134                 | IWR 1S           | 128000           |       | \$31.61           | 36  |            | structure           |
| R19455           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$40.17           | 35  | 34         | structure           |
| R19456           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$44.81           | 34  |            | structure           |
| R19470           |           | NorthMain134                 | IWR_1S           | 128000           |       | \$8.55<br>\$8.70  | 33  |            | structure           |
| R19498           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$5.73            | 32  |            | structure           |
| R19499           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$176.97          | 29  |            | structure           |
| R19503           |           | NorthMain134                 | IWR_1S           | 126000           |       | \$12.63           | 34  |            | structure           |
| R19602           |           | NorthMain134                 | IWR_1S           | 128000           |       |                   | 36  |            | structure           |
| R19673           |           | NorthMain134                 | IWR_1S           | 138000           |       | \$6.15<br>\$51.32 | 34  |            | structure           |
| R19684           |           | NorthMain134                 | IWR_1S           | 138000 1         |       | \$75.71           | 38  |            | structure           |
| R19685           |           | NorthMain134                 | IWR_1S           | 129441           |       | \$57.50           | 35  |            | structure           |
| R19712           |           | NorthMain134                 | IWR_1S           | 128000 1         |       | \$4.03            | 36  |            | structure           |
| R19714           |           | NorthMain134                 | IWR 1S           | 126000 L         |       | \$52.51           | 32  |            | structure           |
| R19734           |           | NorthMain134                 | IWR_1S           | 129441           |       | \$22.95           | 35  |            | structure           |
|                  |           | NorthMain134                 | IWR_1S           | 128000 L         |       | \$10.89           | 36  |            | structure           |
| R19813           |           | NorthMain134                 | IWR 1S           | 126000 L         |       | \$37.40           | 36  |            | structure           |
| R19828           |           | NorthMain134                 | IWR_1S           | 98000 F          |       | \$49.64           | 31  |            | structure structure |
|                  |           | NorthMain134                 | IWR_1S           | 126000 L         |       | \$40.66           | 32  |            | structure           |
|                  |           | NorthMain134                 | IWR_1S           | 126000 L         |       | \$21.40           | 36  |            | structure           |
|                  |           |                              |                  | .23000           |       | Ψ41.70            | 301 | 30 1       | Suucture            |

| Struc Name | Cat name     | Stream name  | Occ  | Name         | Station          | Bank  | Struc Val   | 1E Stage | Grnd_Stage | Motos                      |
|------------|--------------|--------------|------|--------------|------------------|-------|-------------|----------|------------|----------------------------|
| R19859     | <del> </del> | NorthMain134 | IWR  | <del>-</del> | 126000           |       | \$10.70     | 32       |            |                            |
| R19889     | ·            | NorthMain134 | IWR  |              | 126000           |       | \$19.44     |          |            | 1 structure<br>1 structure |
| R19890     | <del></del>  | NorthMain134 | IWR  |              | 126000           |       | \$20.13     |          | 35         | <del></del>                |
| R19891     | <del></del>  | NorthMain134 | IWR  |              | 126000           |       | \$22.13     |          |            | 1 structure                |
| R19911     |              | NorthMain134 | IWR  |              | 128000           |       | \$18.86     | 36       |            | 1 structure                |
| R19912     |              | NorthMain134 | IWR  |              | 128000           |       | \$18.05     |          | 35         | 1 structure                |
| R19913     | +            | NorthMain134 | IWR  |              |                  |       | <del></del> |          |            | 1 structure                |
| R19927     | <del></del>  | NorthMain134 | IWR  |              | 128000<br>128000 |       | \$9.23      | 36       |            | 1 structure                |
| R19955     | <del></del>  | NorthMain134 | IWR  |              |                  |       | \$7.39      |          |            | 1 structure                |
| R19957     |              | NorthMain134 | IWR  |              | 128000           |       | \$4.05      | 36       |            | 1 structure                |
| R24076     | <del></del>  | NorthMain134 | IWR  |              | 128000           |       | \$14.11     | 36       |            | 1 structure                |
| R24104     |              | NorthMain134 | IWR  |              | 126000           |       | \$7.34      | 32       |            | 1 structure                |
| R24129     | <del></del>  |              |      |              | 108000           |       | \$36.78     | 34       |            | 1 structure                |
| R24131     |              | NorthMain134 | IWR_ |              | 98000            |       | \$71.94     | 35       |            | 1 structure                |
| R24131     |              | NorthMain134 | IWR_ |              | 102000           |       | \$71.61     | 32       |            | 1 structure                |
| <u> </u>   |              | NorthMain134 | IWR_ |              | 112000           |       | \$26.78     | 32       |            | 1 structure                |
| R24224     |              | NorthMain134 | IWR  |              | 120000           |       | \$2.34      | 30       |            | 1 structure                |
| R24225     |              | NorthMain134 | IWR_ |              | 120000           |       | \$55.21     | 30       |            | 1 structure                |
| R24231     |              | NorthMain134 | IWR_ |              | 128000           |       | \$7.70      | 36       |            | 1 structure                |
| R24236     |              | NorthMain134 | IWR_ |              | 102000           |       | \$1.30      | 31       |            | 1 structure                |
| R24237     |              | NorthMain134 | IWR_ |              | 108000           |       | \$3.44      | 36       |            | 1 structure                |
| R24267     |              | NorthMain134 | IWR_ |              | 129441           |       | \$9.95      | 35       |            | 1 structure                |
| R24279     |              | NorthMain134 | IWR_ |              | 124000           |       | \$29.20     | 36       |            | 1 structure                |
| R24342     |              | NorthMain134 | IWR_ |              | 128000           |       | \$11.32     | 36       |            | 1 structure                |
| R24373     |              | NorthMain134 | IWR_ |              | 102000           |       | \$28.96     | 32       |            | 1 structure                |
| R24390     |              | NorthMain134 | IWR_ |              | 129441           |       | \$5.76      | 36       |            | 1 structure                |
| R24418     |              | NorthMain134 | IWR_ |              | 126000           |       | \$4.35      | 34       |            | 1 structure                |
| R24457     |              | NorthMain134 | IWR_ |              | 124000           |       | \$27.67     | 36       | 35         | 1 structure                |
| R24458     |              | NorthMain134 | IWR_ |              | 124000           |       | \$40.63     | 36       | 35         | 1 structure                |
| R24460     |              | NorthMain134 | IWR_ |              | 124000           |       | \$28.82     | 36       | 35         | 1 structure                |
| R24467     |              | NorthMain134 | IWR_ |              | 86000            |       | \$13.57     | 25       |            | 1 structure                |
| R24489     |              | NorthMain134 | IWR_ |              | 128000           |       | \$6.54      | 36       |            | 1 structure                |
| R24513     |              | NorthMain134 | IWR_ |              | 151600           |       | \$11.48     | 47       | 46         | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 126000           |       | \$3.46      | 32       |            | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 124000           |       | \$26.62     | 36       | 35         | 1 structure                |
|            |              | NorthMain134 |      | 1S           | 124000           |       | \$4.32      | 36       |            | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 153231           |       | \$85.71     | 39       | 38         | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 153231           |       | \$28.93     | 39       | 38         | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 126000           |       | \$18.58     | 36       |            | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 124000           |       | \$8.19      | 36       | 35         | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 124000           |       | \$12.56     | 36       | 35         | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 126000           | Left  | \$26.32     | 32       | 31         | structure                  |
|            | Structures   | NorthMain134 | IWR_ |              | 126000           | Left  | \$41.79     | 36       | 35         | 1 structure                |
|            |              | NorthMain134 | IWR_ |              | 126000           |       | \$9.20      | 32       | 31 1       | structure                  |
|            |              | NorthMain134 | IWR_ |              | 126000           |       | \$22.83     | 32       | 31 ′       | 1 structure                |
| R26470     | Structures   | NorthMain134 | IWR_ | 1S           | 126000           | _eft  | \$7.31      | 32       | 31,1       | structure                  |
|            |              | NorthMain134 | IWR_ |              | 126000           | _eft  | \$23.85     | 32       | 31 1       | structure                  |
|            |              | NorthMain134 | IWR_ | 1S           | 136000           | _eft  | \$50.76     | 35       | 34 1       | structure                  |
|            |              | NorthMain134 | IWR_ |              | 94000            | Right | \$23.74     | 28       | 27         | structure                  |
|            | Structures   | NorthMain134 | IWR_ |              | 128000           | _eft  | \$2.59      | 36       | <u> </u>   | structure                  |
|            | Structures   | NorthMain134 | IWR_ | 1S           | 126000           | _eft  | \$13.93     | 36       |            | structure                  |
| R26707     | Structures   | NorthMain134 | IWR_ | 1S           | 129441 I         |       | \$32.16     | 36       |            | structure                  |
| R26849     | Structures   | NorthMain134 | IWR_ |              | 126000 1         | _eft  | \$7.13      | 36       |            | structure                  |
| R26865     | Structures   | NorthMain134 | IWR_ | 18           | 128000 l         | _eft  | \$26.28     | 36       |            | structure                  |
| R26945     | Structures   | NorthMain134 | IWR_ |              | 86000 L          |       | \$29.98     | 25       |            | structure                  |
|            |              | NorthMain134 | IWR_ |              | 128000 L         |       | \$2.42      | 35       |            | structure                  |
|            |              | NorthMain134 | IWR_ |              | 128000 L         |       | \$20.43     | 36       |            | structure                  |
|            |              |              |      |              |                  |       |             |          |            |                            |

| Struck   Structures   Structu                       | Struc Nar | ne Cat_name  Stream_name  | Occ. Name | Ctation | Donle | 101       |    |      |             |
|--|-----------|---|-----------|---------|-------|-----------|----|------|-------------|
| RZPOSO   Structures NorthMain134   IWR   S   128000   Left   \$37.39   36   351   structure   RZPOSO   Structures   NorthMain134   IWR   S   138000   Left   \$37.39   36   351   structure   RZPOSO   Structures   NorthMain134   IWR   S   138000   Left   \$37.39   36   351   structure   RZPOSO   Structures   NorthMain134   IWR   S   128000   Left   \$36.85   36   351   structure   RZPT147   Structures   NorthMain134   IWR   S   128000   Left   \$38.55   32   311   structure   RZPT157   Structures   NorthMain134   IWR   S   128000   Left   \$38.55   32   331   structure   RZPT157   Structures   NorthMain134   IWR   S   128000   Right   \$38.67   36   351   structure   RZPZ157   Structures   NorthMain134   IWR   S   108000   Right   \$38.67   36   351   structure   RZPZ26   Structures   NorthMain134   IWR   S   108000   Right   \$38.67   36   351   structure   RZPZ26   Structures   NorthMain134   IWR   S   94000   Right   \$74.44   30   291   structure   RZPZ26   Structures   NorthMain134   IWR   S   94000   Right   \$74.44   30   291   structure   RZPZ26   Structures   NorthMain134   IWR   S   152.561   Left   \$51.05   30   291   structure   RZPZ26   Structures   NorthMain134   IWR   S   152.561   Left   \$50.46   40   391   structure   RZPZ26   Structures   NorthMain134   IWR   S   152.561   Left   \$53.28   40   391   structure   RZPZ26   Structures   NorthMain134   IWR   S   102.000   Left   \$6.62   31   30   structure   RZPZ26   Structures   NorthMain134   IWR   S   102.000   Left   \$6.62   31   30   structure   RZPZ26   Structures   NorthMain134   IWR   S   102.000   Left   \$6.52   32   31   Structure   RZPZ26   Structures   NorthMain134   IWR   S   128.000   Left   \$6.50   36   351   structure   RZPZ26   Structures   NorthMain134   IWR   S   128.000   Left   \$6.50   36   351   structure   RZPZ26   Structures   NorthMain134   IWR   S   128.000   Left   \$6.50   36   351   structure   RZPZ26   Structures   NorthMain134   IWR   S   128.000   Left   \$6.50   36   351   structure   RZPZ26   Structures   NorthMain134   IWR   S  |           |   |           |         |       | Struc_val |    |      |             |
| RZ7060   Structures NorthMain 34   IWR   S   |           |   |           |         |       |           |    |      |             |
| RZ7063   Structures   NorthMain134   IWR   IS   138000   Left   \$20.55   36   35   I structure   RZ7147   Structures   NorthMain134   IWR   IS   128000   Left   \$3.25   36   35   I structure   RZ7147   Structures   NorthMain134   IWR   IS   128000   Left   \$8.35   36   35   I structure   RZ7147   Structures   NorthMain134   IWR   IS   128000   Left   \$8.35   36   35   I structure   RZ7157   Structures   NorthMain134   IWR   IS   108000   Right   \$32.197   36   35   I structure   RZ7228   Structures   NorthMain134   IWR   IS   108000   Right   \$74.84   30   29   I structure   RZ7228   Structures   NorthMain134   IWR   IS   94000   Right   \$74.84   30   29   I structure   RZ7232   Structures   NorthMain134   IWR   IS   152561   Left   \$10.48   40   39   I structure   RZ7232   Structures   NorthMain134   IWR   IS   152561   Left   \$53.28   40   39   I structure   RZ7234   Structures   NorthMain134   IWR   IS   152561   Left   \$53.28   40   39   I structure   RZ7245   Structures   NorthMain134   IWR   IS   102000   Left   \$65.62   31   30   I structure   RZ7244   Structures   NorthMain134   IWR   IS   102000   Left   \$65.62   31   30   I structure   RZ7244   Structures   NorthMain134   IWR   IS   102000   Left   \$3.327   31   30   I structure   RZ7244   Structures   NorthMain134   IWR   IS   102000   Left   \$3.327   31   30   I structure   RZ7240   Structures   NorthMain134   IWR   IS   102000   Left   \$3.348   36   35   I structure   RZ7240   Structures   NorthMain134   IWR   IS   128000   Left   \$6.55   36   36   36   I structure   RZ7240   Structures   NorthMain134   IWR   IS   128000   Left   \$6.55   36   36   36   I structure   RZ7240   Structures   NorthMain134   IWR   IS   128000   Left   \$6.55   36   36   36   I structure   RZ7240   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   I structure   RZ7240   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   I structure   RZ7240   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   I structure   |           |   |           |         |       |           |    |      |             |
| R27085   Structures   NorthMain134   IWR   IS   128000   Left   \$18.97   36   35   I structure   R27145   Structures   NorthMain134   IWR   IS   128000   Left   \$3.83   3.2   311   structure   R27155   Structures   NorthMain134   IWR   IS   108000   Right   \$38.67   36   35   I structure   R27157   Structures   NorthMain134   IWR   IS   108000   Right   \$21.97   36   35   I structure   R27228   Structures   NorthMain134   IWR   IS   108000   Right   \$74.84   30   29   I structure   R27228   Structures   NorthMain134   IWR   IS   94000   Right   \$74.84   30   29   I structure   R27228   Structures   NorthMain134   IWR   IS   94000   Right   \$1.05   30   29   I structure   R27232   Structures   NorthMain134   IWR   IS   52561   Left   \$10.46   40   39   I structure   R27233   Structures   NorthMain134   IWR   IS   152561   Left   \$36.32   40   39   I structure   R27233   Structures   NorthMain134   IWR   IS   152000   Left   \$36.23   40   39   I structure   R27245   Structures   NorthMain134   IWR   IS   102000   Left   \$36.25   31   30   I structure   R27245   Structures   NorthMain134   IWR   IS   102000   Left   \$36.59   36   33   I structure   R2784   Structures   NorthMain134   IWR   IS   128000   Left   \$3.46   36   35   I structure   R27749   Structures   NorthMain134   IWR   IS   128000   Left   \$3.65   36   35   I structure   R27719   Structures   NorthMain134   IWR   IS   128000   Left   \$3.65   36   35   I structure   R27719   Structures   NorthMain134   IWR   IS   128000   Left   \$3.57   34   33   I structure   R27719   Structures   NorthMain134   IWR   IS   128000   Left   \$3.37   26   25   I structure   R27712   Structures   NorthMain134   IWR   IS   128000   Left   \$3.37   26   25   I structure   R27714   Structures   NorthMain134   IWR   IS   128000   Left   \$3.37   26   25   I structure   R27714   Structures   NorthMain134   IWR   IS   128000   Left   \$3.37   36   35   I structure   R27714   Structures   NorthMain134   IWR   IS   128000   Left   \$3.37   36   35   I structure   R27714   Structur  |           |   |           |         |       |           |    |      |             |
| R27147   Structures   NorthMain134   IWR   IS   128000   Left   38.35   32   331   structure   R27155   Structures   NorthMain134   IWR   IS   108000   Right   \$3.867   36   35   structure   R27157   Structures   NorthMain134   IWR   IS   108000   Right   \$21.97   36   35   structure   R2726   Structures   NorthMain134   IWR   IS   108000   Right   \$74.84   30   29   structure   R27228   Structures   NorthMain134   IWR   IS   94000   Right   \$74.84   30   29   structure   R27232   Structures   NorthMain134   IWR   IS   94000   Right   \$51.05   30   29   structure   R27232   Structures   NorthMain134   IWR   IS   152561   Left   \$10.48   40   39   structure   R27245   Structures   NorthMain134   IWR   IS   152561   Left   \$53.28   40   39   structure   R27245   Structures   NorthMain134   IWR   IS   102000   Left   \$56.62   31   30   structure   R27245   Structures   NorthMain134   IWR   IS   102000   Left   \$56.62   31   30   structure   R27445   Structures   NorthMain134   IWR   IS   102000   Left   \$53.27   31   30   structure   R27447   Structures   NorthMain134   IWR   IS   128000   Left   \$6.59   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.46   36   35   structure   R27741   Structures   NorthMain134   IWR   IS   128000   Left   \$3.46   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.46   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.46   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.48   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   structure   R27741   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$3.24   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000      |           |   |           |         |       |           |    |      |             |
| R27155   Structures   NorthMain134   WR   IS   108000   Right   \$38.67   36   35   1 structure   R27268   Structures   NorthMain134   WR   IS   34000   Right   \$32.197   36   35   1 structure   R27226   Structures   NorthMain134   WR   IS   34000   Right   \$74.84   30   29   1 structure   R27228   Structures   NorthMain134   WR   IS   34000   Right   \$74.84   30   29   1 structure   R27228   Structures   NorthMain134   WR   IS   34000   Right   \$74.84   30   29   1 structure   R27228   Structures   NorthMain134   WR   IS   34000   Right   \$74.84   30   29   1 structure   R27232   Structures   NorthMain134   WR   IS   52561   Left   \$10.46   40   39   1 structure   R27233   Structures   NorthMain134   WR   IS   125651   Left   \$53.28   40   39   1 structure   R27245   Structures   NorthMain134   WR   IS   12000   Left   \$6.62   31   30   1 structure   R27245   Structures   NorthMain134   WR   IS   102000   Left   \$6.65   31   30   1 structure   R27264   Structures   NorthMain134   WR   IS   102000   Left   \$6.55   36   35   1 structure   R27688   Structures   NorthMain134   WR   IS   126000   Left   \$6.65   36   35   1 structure   R27714   Structures   NorthMain134   WR   IS   126000   Left   \$1.075   36   35   1 structure   R27714   Structures   NorthMain134   WR   IS   128000   Left   \$3.48   36   36   1 structure   R27714   Structures   NorthMain134   WR   IS   128000   Left   \$3.57   34   33   1 structure   R27720   Structures   NorthMain134   WR   IS   128000   Left   \$3.37   26   25   1 structure   R27720   Structures   NorthMain134   WR   IS   128000   Left   \$3.24   36   35   1 structure   R27724   Structures   NorthMain134   WR   IS   128000   Left   \$3.24   36   35   1 structure   R27724   Structures   NorthMain134   WR   IS   128000   Left   \$3.24   36   35   1 structure   R27724   Structures   NorthMain134   WR   IS   128000   Left   \$3.24   36   35   1 structure   R27724   Structures   NorthMain134   WR   IS   128000   Left   \$3.24   36   35   1 structure   R27724   Structures   NorthMain134   WR   |           |   |           |         |       |           |    |      |             |
| RZ7157   Structures   NorthMain134   IWR   IS  |           |   |           |         |       |           |    |      |             |
| RZ7226   Structures   NorthMain   134   IWR   15   94000   Right   \$74.84   30   39   1 structure   RZ7228   Structures   NorthMain   134   IWR   15   94000   Right   \$74.84   30   29   1 structure   RZ7232   Structures   NorthMain   134   IWR   15   152551   Left   \$10.46   40   39   1 structure   RZ7233   Structures   NorthMain   134   IWR   15   152551   Left   \$10.46   40   39   1 structure   RZ7233   Structures   NorthMain   134   IWR   15   152551   Left   \$53.28   40   39   1 structure   RZ7245   Structures   NorthMain   134   IWR   15   102000   Left   \$6.62   31   30   1 structure   RZ7264   Structures   NorthMain   134   IWR   15   102000   Left   \$6.59   36   33   1 structure   RZ764   Structures   NorthMain   134   IWR   15   102000   Left   \$6.59   36   35   1 structure   RZ7688   Structures   NorthMain   134   IWR   15   126000   Left   \$6.59   36   35   1 structure   RZ7711   Structures   NorthMain   134   IWR   15   126000   Left   \$3.46   36   35   1 structure   RZ7711   Structures   NorthMain   134   IWR   15   126000   Left   \$3.46   36   35   1 structure   RZ7711   Structures   NorthMain   134   IWR   15   126000   Left   \$5.51   33   32   1 structure   RZ7720   Structures   NorthMain   134   IWR   15   126000   Left   \$5.51   33   32   1 structure   RZ7721   Structures   NorthMain   134   IWR   15   126000   Left   \$3.26   36   35   1 structure   RZ7721   Structures   NorthMain   134   IWR   15   126000   Left   \$3.24   8   36   35   1 structure   RZ7723   Structures   NorthMain   134   IWR   15   126000   Left   \$3.24   8   36   36   1 structure   RZ7734   Structures   NorthMain   134   IWR   15   126000   Left   \$3.24   8   36   36   1 structure   RZ7742   Structures   NorthMain   134   IWR   15   126000   Left   \$3.24   8   36   36   1 structure   RZ7742   Structures   NorthMain   134   IWR   15   126000   Left   \$3.24   36   36   35   1 structure   RZ7742   Structures   NorthMain   134   IWR   15   126000   Left   \$3.27   36   36   35   1 structure   RZ7762   Structures   NorthMain      |           |   |           |         |       |           |    |      |             |
| R27228   Structures   NorthMain   134   WR   15   34000   Right   \$51.05   30   29   instructure   R27233   Structures   NorthMain   134   WR   15   152561   Left   \$53.28   40   39   instructure   R27245   Structures   NorthMain   134   WR   15   152561   Left   \$53.28   40   39   instructure   R27245   Structures   NorthMain   134   WR   15   102000   Left   \$56.62   31   30   1 structure   R27245   Structures   NorthMain   134   WR   15   102000   Left   \$56.62   31   30   1 structure   R27447   Structures   NorthMain   134   WR   15   102000   Left   \$6.62   31   30   1 structure   R27447   Structures   NorthMain   134   WR   15   102000   Left   \$6.59   36   35   1 structure   R27471   Structures   NorthMain   134   WR   15   122000   Left   \$3.46   36   35   1 structure   R27718   Structures   NorthMain   134   WR   15   122000   Left   \$3.46   36   35   1 structure   R27719   Structures   NorthMain   134   WR   15   122000   Left   \$3.778   34   33   1 structure   R27719   Structures   NorthMain   134   WR   15   122000   Left   \$5.778   34   33   1 structure   R27710   Structures   NorthMain   134   WR   15   122000   Left   \$5.51   33   32   1 structure   R27712   Structures   NorthMain   134   WR   15   122000   Left   \$5.51   33   32   1 structure   R27712   Structures   NorthMain   134   WR   15   122000   Left   \$3.24   8   36   35   1 structure   R27714   Structures   NorthMain   134   WR   15   122000   Left   \$3.24   8   36   35   1 structure   R27743   Structures   NorthMain   134   WR   15   122000   Left   \$3.24   8   36   35   1 structure   R27742   Structures   NorthMain   134   WR   15   122000   Left   \$3.23   36   35   1 structure   R27740   Structures   NorthMain   134   WR   15   122000   Left   \$3.23   36   35   1 structure   R27740   Structures   NorthMain   134   WR   15   122000   Left   \$3.37   36   35   1 structure   R27760   Structures   NorthMain   134   WR   15   122000   Left   \$3.43   33   31   structure   R27760   Structures   NorthMain   134   WR   15   122000   Left   \$  |           |   |           |         |       |           |    |      |             |
| R27232   Structures   NorthMain134   WR   S   152561   Left   \$10.46   40   39   Structure   R27243   Structures   NorthMain134   WR   S   152561   Left   \$50.28   40   39   Structure   R27245   Structures   NorthMain134   WR   S   162561   Left   \$55.28   40   39   Structure   R27246   Structures   NorthMain134   WR   S   102000   Left   \$5.62   31   30   Structure   R27247   Structures   NorthMain134   WR   S   102000   Left   \$5.62   31   30   Structure   R2768   Structures   NorthMain134   WR   S   102000   Left   \$5.59   36   35   Structure   R2768   Structures   NorthMain134   WR   S   126000   Left   \$5.59   36   35   Structure   R27714   Structures   NorthMain134   WR   S   126000   Left   \$5.59   36   35   Structure   R27719   Structures   NorthMain134   WR   S   128000   Left   \$7.78   34   33   Structure   R27719   Structures   NorthMain134   WR   S   128000   Left   \$7.78   34   33   Structure   R27719   Structures   NorthMain134   WR   S   128000   Left   \$7.78   34   33   Structure   R27719   Structures   NorthMain134   WR   S   128000   Left   \$7.78   34   33   Structure   R27719   Structures   NorthMain134   WR   S   88000   Right   \$33.79   26   25   Structure   R27713   Structures   NorthMain134   WR   S   128000   Left   \$24.68   36   35   Structure   R27733   Structures   NorthMain134   WR   S   128000   Left   \$24.68   36   35   Structure   R27742   Structures   NorthMain134   WR   S   128000   Left   \$24.68   36   35   Structure   R27742   Structures   NorthMain134   WR   S   128000   Left   \$24.68   36   35   Structure   R27742   Structures   NorthMain134   WR   S   128000   Left   \$24.68   36   35   Structure   R27743   Structures   NorthMain134   WR   S   128000   Left   \$32.82   36   35   Structure   R27743   Structures   NorthMain134   WR   S   128000   Left   \$32.82   36   35   Structure   R27740   Structures   NorthMain134   WR   S   128000   Left   \$32.82   36   35   Structure   R27740   Structures   NorthMain134   WR   S   128000   Left   \$3.37   36   36   35   Structure   R2774 |           |   |           |         |       |           |    |      |             |
| R27233   Structures   NorthMain134   IWR   15   152561   Left   \$55.328   401   391   structure   R27245   Structures   NorthMain134   IWR   15   102000   Left   \$6.62   311   301   structure   R27247   Structures   NorthMain134   IWR   15   102000   Left   \$13.27   311   301   structure   R27447   Structures   NorthMain134   IWR   15   102000   Right   \$76.12   32   311   structure   R27478   Structures   NorthMain134   IWR   15   102000   Left   \$6.69   36   35   structure   R27708   Structures   NorthMain134   IWR   15   126000   Left   \$3.46   36   351   structure   R27708   Structures   NorthMain134   IWR   15   126000   Left   \$3.46   36   351   structure   R27719   Structures   NorthMain134   IWR   15   128000   Left   \$7.76   34   331   structure   R27719   Structures   NorthMain134   IWR   15   128000   Left   \$7.78   34   331   structure   R27719   Structures   NorthMain134   IWR   15   128000   Left   \$7.78   34   331   structure   R27720   Structures   NorthMain134   IWR   15   128000   Left   \$8.51   33   32   structure   R27725   Structures   NorthMain134   IWR   15   128000   Left   \$24.18   34   331   structure   R27725   Structures   NorthMain134   IWR   15   128000   Left   \$24.18   34   331   structure   R27741   Structures   NorthMain134   IWR   15   128000   Left   \$32.82   36   35   structure   R27742   Structures   NorthMain134   IWR   15   128000   Left   \$32.83   36   35   structure   R27744   Structures   NorthMain134   IWR   15   128000   Left   \$32.83   36   35   structure   R27748   Structures   NorthMain134   IWR   15   128000   Left   \$43.37   36   35   structure   R27748   Structures   NorthMain134   IWR   15   128000   Left   \$43.37   36   35   structure   R27767   Structures   NorthMain134   IWR   15   128000   Left   \$43.37   36   35   structure   R27767   Structures   NorthMain134   IWR   15   128000   Left   \$43.37   36   35   structure   R27769   Structures   NorthMain134   IWR   15   128000   Left   \$34.33   33   33   33   33   33   33   33                                 |           |   |           |         |       |           |    |      |             |
| R27245   Structures   NorthMain134   IWR   IS   102000   Left   \$6.62   31   30   structure   R27447   Structures   NorthMain134   IWR   IS   102000   Left   \$13.27   31   30   1 structure   R27447   Structures   NorthMain134   IWR   IS   102000   Right   \$76.12   32   31   structure   R27688   Structures   NorthMain134   IWR   IS   126000   Left   \$6.59   36   35   structure   R27768   Structures   NorthMain134   IWR   IS   126000   Left   \$3.3.66   36   35   structure   R27711   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   36   35   structure   R27719   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   36   35   structure   R27710   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   36   31   structure   R27720   Structures   NorthMain134   IWR   IS   128000   Left   \$24.88   36   35   structure   R27721   Structures   NorthMain134   IWR   IS   128000   Left   \$24.18   34   33   structure   R27723   Structures   NorthMain134   IWR   IS   128000   Left   \$24.18   34   33   structure   R27733   Structures   NorthMain134   IWR   IS   128000   Left   \$24.88   36   35   structure   R27741   Structures   NorthMain134   IWR   IS   128000   Left   \$24.88   36   35   structure   R27742   Structures   NorthMain134   IWR   IS   128000   Left   \$32.82   36   35   structure   R27743   Structures   NorthMain134   IWR   IS   128000   Left   \$32.82   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$32.83   36   35   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$32.34   36   36   31   structure   R27740   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   structure   R27760   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   structure   R27760   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   structure   R27760   Structures   NorthMain134   IWR   IS   128000   Left   \$43.63   36   35   structure   R27760   Structures   North  |           |   |           |         |       |           |    |      |             |
| R27264   Structures   NorthMain134   IWR   15   102000   Left   \$13.27   31   30   Structure   R2744   Structures   NorthMain134   IWR   15   102000   Right   \$76.12   32   31   structure   R27688   Structures   NorthMain134   IWR   15   126000   Left   \$6.69   36   35   structures   R27708   Structures   NorthMain134   IWR   15   126000   Left   \$3.46   36   35   structures   R27708   Structures   NorthMain134   IWR   15   126000   Left   \$3.46   36   35   structures   R27719   Structures   NorthMain134   IWR   15   128000   Left   \$7.78   34   33   structure   R27719   Structures   NorthMain134   IWR   15   128000   Left   \$7.78   34   33   structure   R27719   Structures   NorthMain134   IWR   15   128000   Left   \$33.39   26   25   structure   R27721   Structures   NorthMain134   IWR   15   128000   Left   \$33.39   26   26   27   structure   R27725   Structures   NorthMain134   IWR   15   128000   Left   \$24.18   34   33   structure   R27724   Structures   NorthMain134   IWR   15   128000   Left   \$24.88   36   35   structure   R27741   Structures   NorthMain134   IWR   15   128000   Left   \$32.22   36   35   structure   R27741   Structures   NorthMain134   IWR   15   128000   Left   \$32.22   36   35   structure   R27743   Structures   NorthMain134   IWR   15   128000   Left   \$32.34   36   35   structure   R27743   Structures   NorthMain134   IWR   15   128000   Left   \$32.34   36   35   structure   R27743   Structures   NorthMain134   IWR   15   128000   Left   \$32.37   36   35   structure   R27767   Structures   NorthMain134   IWR   15   128000   Left   \$32.37   36   35   structure   R27767   Structures   NorthMain134   IWR   15   128000   Left   \$32.37   36   35   structure   R27767   Structures   NorthMain134   IWR   15   128000   Left   \$32.37   36   35   structure   R27769   Structures   NorthMain134   IWR   15   128000   Left   \$3.60   30   51   structure   R27769   Structures   NorthMain134   IWR   15   128000   Left   \$3.60   30   51   structure   R27869   Structures   NorthMain134   IWR   15     |           |   |           |         |       |           |    |      |             |
| R27447   Structures   NorthMain134   IWR   15   102000   Right   \$76.12   32   31   1 structure   R27788   Structures   NorthMain134   IWR   15   126000   Left   \$6.59   36   35   1 structure   R27711   Structures   NorthMain134   IWR   15   126000   Left   \$3.46   36   35   1 structure   R27711   Structures   NorthMain134   IWR   15   126000   Left   \$10.75   36   35   1 structure   R27711   Structures   NorthMain134   IWR   15   128000   Left   \$7.78   34   33   1 structure   R27720   Structures   NorthMain134   IWR   15   128000   Left   \$8.51   33   32   1 structure   R27721   Structures   NorthMain134   IWR   15   128000   Left   \$8.51   33   32   1 structure   R27722   Structures   NorthMain134   IWR   15   128000   Left   \$32.79   26   25   1 structure   R27733   Structures   NorthMain134   IWR   15   128000   Left   \$24.68   36   35   1 structure   R27733   Structures   NorthMain134   IWR   15   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   IWR   15   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   IWR   15   128000   Left   \$32.34   36   35   1 structure   R27742   Structures   NorthMain134   IWR   15   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMain134   IWR   15   128000   Left   \$7.65   34   33   1 structure   R27742   Structures   NorthMain134   IWR   15   128000   Left   \$7.65   34   33   1 structure   R27762   Structures   NorthMain134   IWR   15   128000   Left   \$7.65   34   33   1 structure   R27762   Structures   NorthMain134   IWR   15   128000   Left   \$7.65   34   35   1 structure   R27760   Structures   NorthMain134   IWR   15   128000   Left   \$7.65   34   35   1 structure   R27800   Structures   NorthMain134   IWR   15   128000   Left   \$7.75   36   35   1 structure   R27800   Structures   NorthMain134   IWR   15   128000   Left   \$7.75   36   36   1 structure   R27800   Structures   NorthMain134   IWR   15   128000   Left   \$7.75   36   36   1 structure   R27800   Structures  |           |   |           |         |       |           |    |      |             |
| R27688   Structures   NorthMaint]   WR   1S   126000   Left   \$6.55   36   35   1 structure   R27708   Structures   NorthMaint]   WR   1S   126000   Left   \$3.46   36   35   1 structure   R27719   Structures   NorthMaint]   WR   1S   128000   Left   \$3.46   36   35   1 structure   R27719   Structures   NorthMaint]   WR   1S   128000   Left   \$7.78   34   33   1 structure   R27719   Structures   NorthMaint]   WR   1S   128000   Left   \$3.379   26   25   1 structure   R27720   Structures   NorthMaint]   WR   1S   128000   Left   \$3.379   26   25   1 structure   R27725   Structures   NorthMaint]   WR   1S   128000   Left   \$3.379   26   25   1 structure   R27725   Structures   NorthMaint]   WR   1S   128000   Left   \$24.18   34   33   1 structure   R27725   Structures   NorthMaint]   WR   1S   128000   Left   \$24.88   36   35   1 structure   R27741   Structures   NorthMaint]   WR   1S   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMaint]   WR   1S   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMaint]   WR   1S   128000   Left   \$32.34   36   35   1 structure   R27748   Structures   NorthMaint]   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27748   Structures   NorthMaint]   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27767   Structures   NorthMaint]   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27767   Structures   NorthMaint]   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27767   Structures   NorthMaint]   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27767   Structures   NorthMaint]   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27869   Structures   NorthMaint]   WR   1S   128000   Left   \$33.43   33   32   1 structure   R27869   Structures   NorthMaint]   WR   1S   128000   Left   \$33.43   33   35   1 structure   R27869   Structures   NorthMaint]   WR   1S   128000   Left   \$34.43   33   35   1 structure   R27863   Structures   NorthMaint]   WR   1S   128000   |           |   |           |         |       |           |    |      |             |
| R27708   Structures   NorthMain134   WR 1S   128000   Left   \$3.346   36   35   structure   R27711   Structures   NorthMain134   WR 1S   128000   Left   \$3.46   36   35   structure   R27719   Structures   NorthMain134   WR 1S   128000   Left   \$7.76   34   33   structure   R27720   Structures   NorthMain134   WR 1S   128000   Left   \$8.51   33   32   structure   R27721   Structures   NorthMain134   WR 1S   88000   Right   \$33.79   26   25   structure   R27725   Structures   NorthMain134   WR 1S   88000   Right   \$33.79   26   25   structure   R27733   Structures   NorthMain134   WR 1S   128000   Left   \$24.48   34   33   structure   R27733   Structures   NorthMain134   WR 1S   128000   Left   \$32.82   36   35   structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$32.82   36   35   structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$32.34   36   35   structure   R27743   Structures   NorthMain134   WR 1S   128000   Left   \$7.65   34   33   structure   R27743   Structures   NorthMain134   WR 1S   128000   Left   \$7.65   34   33   structure   R27762   Structures   NorthMain134   WR 1S   128000   Left   \$7.65   34   33   structure   R27762   Structures   NorthMain134   WR 1S   128000   Left   \$33.37   36   35   structure   R27762   Structures   NorthMain134   WR 1S   128000   Left   \$33.77   36   35   structure   R27762   Structures   NorthMain134   WR 1S   128000   Left   \$33.90   27   26   structure   R27812   Structures   NorthMain134   WR 1S   88000   Right   \$39.02   27   26   structure   R27812   Structures   NorthMain134   WR 1S   18000   Left   \$34.43   33   21   structure   R27812   Structures   NorthMain134   WR 1S   128000   Left   \$34.43   33   21   structure   R27932   Structures   NorthMain134   WR 1S   128000   Left   \$34.43   33   21   structure   R27932   Structures   NorthMain134   WR 1S   128000   Left   \$34.43   33   21   structure   R27932   Structures   NorthMain134   WR 1S   128000   Left   \$34.43   33   35   structure   R27933   Structures   North |           |   |           |         |       |           |    |      |             |
| R27711   Structures   NorthMain134   WR   1S   128000   Left   \$10.75   36   35   1 structure   R27719   Structures   NorthMain134   WR   1S   128000   Left   \$7.78   34   33   1 structure   R27720   Structures   NorthMain134   WR   1S   128000   Left   \$8.51   33   32   1 structure   R27721   Structures   NorthMain134   WR   1S   128000   Left   \$8.51   33   32   1 structure   R27721   Structures   NorthMain134   WR   1S   88000   Right   \$33.79   26   25   1 structure   R27721   Structures   NorthMain134   WR   1S   128000   Left   \$24.68   36   35   1 structure   R27733   Structures   NorthMain134   WR   1S   128000   Left   \$24.68   36   35   1 structure   R27741   Structures   NorthMain134   WR   1S   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   WR   1S   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMain134   WR   1S   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27760   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27760   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27760   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27760   Structures   NorthMain134   WR   1S   128000   Left   \$33.77   36   35   1 structure   R27810   Structures   NorthMain134   WR   1S   88000   Right   \$39.02   27   26   1 structure   R27812   Structures   NorthMain134   WR   1S   128000   Left   \$34.43   33   32   1 structure   R27813   Structures   NorthMain134   WR   1S   124000   Left   \$34.43   33   32   1 structure   R27931   Structures   NorthMain134   WR   1S   124000   Left   \$34.43   33   32   1 structure   R27931   Structures   NorthMain134   WR   1S   124000   Left   \$34.85   36   35   1 structure   R27934   Structures   NorthMain134   WR   1S   124000   Left   \$34.85   36   35   1 structure   R28331   Structures   NorthMain  |           |   |           |         |       |           |    |      |             |
| R27719   Structures   NorthMain134   WR 1S   128000   Left   \$7.78   34   33   1 structure   R27720   Structures   NorthMain134   WR 1S   128000   Left   \$8.51   33   32   1 structure   R27725   Structures   NorthMain134   WR 1S   88000   Right   \$33.79   26   25   1 structure   R27725   Structures   NorthMain134   WR 1S   128000   Left   \$24.18   34   33   1 structure   R27725   Structures   NorthMain134   WR 1S   128000   Left   \$24.18   34   33   1 structure   R27733   Structures   NorthMain134   WR 1S   128000   Left   \$24.68   36   35   1 structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$43.37   36   35   1 structure   R27742   Structures   NorthMain134   WR 1S   128000   Left   \$43.37   36   35   1 structure   R27762   Structures   NorthMain134   WR 1S   128000   Left   \$689.63   36   35   1 structure   R27762   Structures   NorthMain134   WR 1S   128000   Left   \$689.63   36   35   1 structure   R27780   Structures   NorthMain134   WR 1S   88000   Left   \$32.77   36   35   1 structure   R27812   Structures   NorthMain134   WR 1S   88000   Left   \$34.37   36   35   1 structure   R27812   Structures   NorthMain134   WR 1S   18000   Left   \$34.33   33   32   1 structure   R27818   Structures   NorthMain134   WR 1S   124000   Left   \$34.43   33   32   1 structure   R27818   Structures   NorthMain134   WR 1S   124000   Left   \$34.43   33   32   1 structure   R27931   Structures   NorthMain134   WR 1S   124000   Left   \$34.83   33   31   structure   R27932   Structures   NorthMain134   WR 1S   124000   Left   \$34.83   35   34   1 structure   R27932   Structures   NorthMain134   WR 1S   124000   Left   \$48.69   36   35   1 structure   R27934   Structures   NorthMain134   WR 1S   124000   Left   \$48.69   36    |           |   |           |         |       |           |    |      |             |
| R27720   Structures   NorthMain134   WR   1S   128000   Left   \$8.51   33   32   1 structure   R27721   Structures   NorthMain134   WR   1S   88000   Right   \$33.79   26   25   1 structure   R27725   Structures   NorthMain134   WR   1S   128000   Left   \$24.18   34   33   1 structure   R27733   Structures   NorthMain134   WR   1S   128000   Left   \$24.68   36   35   1 structure   R27741   Structures   NorthMain134   WR   1S   128000   Left   \$24.68   36   35   1 structure   R27741   Structures   NorthMain134   WR   1S   128000   Left   \$32.34   36   35   1 structure   R27742   Structures   NorthMain134   WR   1S   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27748   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27762   Structures   NorthMain134   WR   1S   128000   Left   \$43.37   36   35   1 structure   R27767   Structures   NorthMain134   WR   1S   128000   Left   \$689.63   36   35   1 structure   R27780   Structures   NorthMain134   WR   1S   128000   Left   \$23.77   36   35   1 structure   R27880   Structures   NorthMain134   WR   1S   88000   Right   \$39.02   27   26   1 structure   R27889   Structures   NorthMain134   WR   1S   88000   Right   \$39.02   27   26   1 structure   R27898   Structures   NorthMain134   WR   1S   124000   Left   \$34.43   33   32   1 structure   R27931   Structures   NorthMain134   WR   1S   124000   Left   \$34.63   36   35   1 structure   R27931   Structures   NorthMain134   WR   1S   124000   Left   \$34.60   36   35   1 structure   R27931   Structures   NorthMain134   WR   1S   124000   Left   \$34.60   36   35   1 structure   R27934   Structures   NorthMain134   WR   1S   126000   Left   \$56.60   35   1 structure   R27934   Structures   NorthMain134   WR   1S   126000   Left   \$56.60   36   35   1 structure   R27935   Structures   NorthMain134   WR   1S   126000   Left   \$66.60   36   35   1 structure   R27935   Structures   NorthMain13  |           |   |           |         |       |           |    | 35   | 1 structure |
| R27721   Structures   NorthMain134   IWR   IS   88000   Right   \$33.79   26   25   1 structure   R27725   Structures   NorthMain134   IWR   IS   128000   Left   \$24.18   34   33   1 structure   R27733   Structures   NorthMain134   IWR   IS   128000   Left   \$24.88   36   35   1 structure   R27741   Structures   NorthMain134   IWR   IS   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   IWR   IS   128000   Left   \$32.34   36   35   1 structure   R27742   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   1 structure   R27748   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   1 structure   R27748   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   1 structure   R27762   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   1 structure   R27760   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   1 structure   R27780   Structures   NorthMain134   IWR   IS   128000   Left   \$23.77   36   35   1 structure   R27812   Structures   NorthMain134   IWR   IS   86000   Left   \$13.75   25   24   1 structure   R27812   Structures   NorthMain134   IWR   IS   86000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   IWR   IS   128000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   IWR   IS   124000   Left   \$34.43   33   31   structure   R27931   Structures   NorthMain134   IWR   IS   124000   Left   \$34.43   33   31   structure   R27931   Structures   NorthMain134   IWR   IS   126000   Left   \$14.85   36   35   1 structure   R27932   Structures   NorthMain134   IWR   IS   126000   Left   \$14.85   36   35   1 structure   R27935   Structures   NorthMain134   IWR   IS   126000   Left   \$15.33   36   35   1 structure   R27935   Structures   NorthMain134   IWR   IS   126000   Left   \$15.33   36   35   1 structure   R27935   Structures   NorthMain134   IWR   IS   126000   Left   \$36.69   36   35   1 structure   R28396   Stru  |           |   |           |         |       |           |    |      |             |
| R27725   Structures   NorthMain134   IWR   IS   128000   Left   \$24.68   36   35   1 structure   R27733   Structures   NorthMain134   IWR   IS   128000   Left   \$24.68   36   35   1 structure   R27742   Structures   NorthMain134   IWR   IS   128000   Left   \$32.23   36   35   1 structure   R27742   Structures   NorthMain134   IWR   IS   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMain134   IWR   IS   128000   Left   \$32.34   36   35   1 structure   R27743   Structures   NorthMain134   IWR   IS   128000   Left   \$43.37   36   35   1 structure   R27762   Structures   NorthMain134   IWR   IS   128000   Left   \$689.63   36   35   1 structure   R27762   Structures   NorthMain134   IWR   IS   128000   Left   \$689.63   36   35   1 structure   R27767   Structures   NorthMain134   IWR   IS   128000   Left   \$689.63   36   35   1 structure   R27812   Structures   NorthMain134   IWR   IS   128000   Left   \$13.75   25   24   1 structure   R27812   Structures   NorthMain134   IWR   IS   86000   Right   \$39.02   27   26   1 structure   R27812   Structures   NorthMain134   IWR   IS   18000   Left   \$34.43   33   32   1 structure   R27812   Structures   NorthMain134   IWR   IS   128000   Left   \$34.43   33   32   1 structure   R27918   Structures   NorthMain134   IWR   IS   128000   Left   \$14.85   36   35   1 structure   R27918   Structures   NorthMain134   IWR   IS   124000   Left   \$14.85   36   35   1 structure   R27931   Structures   NorthMain134   IWR   IS   124000   Left   \$14.85   36   35   1 structure   R27933   Structures   NorthMain134   IWR   IS   126000   Left   \$16.6.62   35   34   1 structure   R27934   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27934   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27935   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27936   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   36   35   1 structure   |           |   |           |         |       |           |    |      |             |
| R27733   Structures   NorthMain134   WR   15   128000   Left   \$24.68   36   35   1 structure   R27741   Structures   NorthMain134   WR   15   128000   Left   \$32.82   36   35   1 structure   R27742   Structures   NorthMain134   WR   15   128000   Left   \$32.82   36   35   1 structure   R27743   Structures   NorthMain134   WR   15   128000   Left   \$7.65   34   33   1 structure   R27748   Structures   NorthMain134   WR   15   128000   Left   \$43.37   36   35   1 structure   R27748   Structures   NorthMain134   WR   15   128000   Left   \$43.37   36   35   1 structure   R27762   Structures   NorthMain134   WR   15   128000   Left   \$43.37   36   35   1 structure   R27767   Structures   NorthMain134   WR   15   128000   Left   \$23.77   36   35   1 structure   R27780   Structures   NorthMain134   WR   15   128000   Left   \$43.375   25   24   1 structure   R27812   Structures   NorthMain134   WR   15   88000   Right   \$39.02   27   26   1 structure   R27829   Structures   NorthMain134   WR   15   124000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   WR   15   124000   Left   \$0.40   36   35   1 structure   R27918   Structures   NorthMain134   WR   15   124000   Left   \$0.40   36   35   1 structure   R27931   Structures   NorthMain134   WR   15   124000   Left   \$0.40   36   35   1 structure   R27932   Structures   NorthMain134   WR   15   126000   Left   \$68.62   35   34   1 structure   R27932   Structures   NorthMain134   WR   15   126000   Left   \$68.62   35   34   1 structure   R27932   Structures   NorthMain134   WR   15   126000   Left   \$68.62   35   34   1 structure   R27934   Structures   NorthMain134   WR   15   126000   Left   \$68.62   35   34   1 structure   R27954   Structures   NorthMain134   WR   15   126000   Left   \$68.63   36   35   1 structure   R27954   Structures   NorthMain134   WR   15   126000   Left   \$8.32   36   35   1 structure   R27954   Structures   NorthMain134   WR   15   126000   Left   \$68.65   36   35   1 structure   R28030   Structures   NorthMain1  |           |   |           |         |       |           |    |      |             |
| R27741   Structures   NorthMain134   WR   IS   128000   Left   \$32.82   36   35   structure   R27742   Structures   NorthMain134   WR   IS   128000   Left   \$32.34   36   35   structure   R27748   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   structure   R27748   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   structure   R27762   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   structure   R27762   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   structure   R27767   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   structure   R27780   Structures   NorthMain134   WR   IS   128000   Left   \$32.77   36   35   structure   R27812   Structures   NorthMain134   WR   IS   86000   Left   \$33.75   25   24   structure   R27812   Structures   NorthMain134   WR   IS   88000   Right   \$39.02   27   26   I structure   R27812   Structures   NorthMain134   WR   IS   124000   Left   \$34.43   33   32   I structure   R27839   Structures   NorthMain134   WR   IS   124000   Left   \$34.43   33   32   I structure   R27931   Structures   NorthMain134   WR   IS   124000   Left   \$44.85   36   35   I structure   R27931   Structures   NorthMain134   WR   IS   124000   Left   \$44.85   36   35   I structure   R27932   Structures   NorthMain134   WR   IS   126000   Left   \$68.62   35   34   I structure   R27933   Structures   NorthMain134   WR   IS   126000   Left   \$68.62   35   34   I structure   R27945   Structures   NorthMain134   WR   IS   126000   Left   \$68.62   35   34   I structure   R27945   Structures   NorthMain134   WR   IS   126000   Left   \$68.62   35   34   I structure   R27945   Structures   NorthMain134   WR   IS   126000   Left   \$68.62   35   34   I structure   R27945   Structures   NorthMain134   WR   IS   124000   Left   \$68.62   35   35   I structure   R27945   Structures   NorthMain134   WR   IS   124000   Left   \$68.62   36   35   I structure   R28003   Structures   NorthMain134   WR   IS     |           |   |           |         |       |           |    |      |             |
| R27742   Structures   NorthMain134   WR   IS   128000   Left   \$32.34   36   35   I structure   R27743   Structures   NorthMain134   WR   IS   128000   Left   \$7.65   34   33   I structure   R27748   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   I structure   R27762   Structures   NorthMain134   WR   IS   128000   Left   \$689.63   36   35   I structure   R27767   Structures   NorthMain134   WR   IS   128000   Left   \$689.63   36   35   I structure   R27767   Structures   NorthMain134   WR   IS   128000   Left   \$23.77   36   35   I structure   R27780   Structures   NorthMain134   WR   IS   86000   Left   \$31.75   25   24   I structure   R27812   Structures   NorthMain134   WR   IS   86000   Left   \$34.43   33   32   I structure   R27853   Structures   NorthMain134   WR   IS   124000   Left   \$34.43   33   32   I structure   R27889   Structures   NorthMain134   WR   IS   124000   Left   \$34.43   33   32   I structure   R27918   Structures   NorthMain134   WR   IS   124000   Left   \$14.85   36   35   I structure   R27931   Structures   NorthMain134   WR   IS   122008   Left   \$71.22   34   33   I structure   R27932   Structures   NorthMain134   WR   IS   126000   Left   \$86.62   35   34   I structure   R27932   Structures   NorthMain134   WR   IS   126000   Left   \$86.62   35   34   I structure   R27935   Structures   NorthMain134   WR   IS   126000   Left   \$8.69   36   35   I structure   R27945   Structures   NorthMain134   WR   IS   126000   Left   \$8.69   36   35   I structure   R27964   Structures   NorthMain134   WR   IS   128000   Left   \$8.69   36   35   I structure   R27964   Structures   NorthMain134   WR   IS   128000   Left   \$8.69   36   35   I structure   R28387   Structures   NorthMain134   WR   IS   128000   Left   \$8.69   36   35   I structure   R28396   Structures   NorthMain134   WR   IS   128000   Left   \$16.85   42   411   structure   R28396   Structures   NorthMain134   WR   IS   128000   Left   \$16.85   42   411   structure   R28407   Structures   NorthMain134    |           |   |           |         |       |           |    |      |             |
| R27743   Structures   NorthMain134   WR   IS   128000   Left   \$7.65   34   33   Structure   R27748   Structures   NorthMain134   WR   IS   128000   Left   \$43.37   36   35   Structure   R27762   Structures   NorthMain134   WR   IS   128000   Left   \$689.63   36   35   Structure   R27767   Structures   NorthMain134   WR   IS   128000   Left   \$23.77   36   35   Structure   R27780   Structures   NorthMain134   WR   IS   86000   Left   \$13.75   25   24   Structure   R27812   Structures   NorthMain134   WR   IS   86000   Left   \$34.43   33   32   Structure   R278812   Structures   NorthMain134   WR   IS   86000   Left   \$34.43   33   32   Structure   R27889   Structures   NorthMain134   WR   IS   124000   Left   \$34.43   33   32   Structure   R27918   Structures   NorthMain134   WR   IS   124000   Left   \$14.85   36   35   Structure   R27918   Structures   NorthMain134   WR   IS   124000   Left   \$14.85   36   35   Structure   R27932   Structures   NorthMain134   WR   IS   126000   Left   \$14.85   36   35   Structure   R27933   Structures   NorthMain134   WR   IS   126000   Left   \$86.62   35   34   Structure   R27933   Structures   NorthMain134   WR   IS   126000   Left   \$86.62   35   34   Structure   R27945   Structures   NorthMain134   WR   IS   126000   Left   \$86.62   35   34   Structure   R27964   Structures   NorthMain134   WR   IS   126000   Left   \$86.90   36   35   Structure   R27964   Structures   NorthMain134   WR   IS   128000   Left   \$86.90   36   35   Structure   R27965   Structures   NorthMain134   WR   IS   128000   Left   \$86.90   36   35   Structure   R27965   Structures   NorthMain134   WR   IS   128000   Left   \$86.90   36   35   Structure   R27965   Structures   NorthMain134   WR   IS   128000   Left   \$86.90   36   35   Structure   R28396   Structures   NorthMain134   WR   IS   128000   Left   \$86.90   36   35   Structure   R28396   Structures   NorthMain134   WR   IS   128000   Left   \$86.70   38   35   Structure   R28400   Structures   NorthMain134   WR   IS   128000   Left   \$86.90    |           |   |           |         |       |           |    | 35   | 1 structure |
| R27748   Structures   NorthMain134   IWR 1S   128000   Left   \$43.37   36   35   Structure   R27762   Structures   NorthMain134   IWR 1S   128000   Left   \$689.63   36   35   Structure   R27767   Structures   NorthMain134   IWR 1S   128000   Left   \$23.77   36   35   Structure   R27767   Structures   NorthMain134   IWR 1S   128000   Left   \$23.77   36   35   Structure   R27780   Structures   NorthMain134   IWR 1S   86000   Left   \$13.75   25   24   Structure   R27812   Structures   NorthMain134   IWR 1S   88000   Right   \$39.02   27   26   Structure   R27812   Structures   NorthMain134   IWR 1S   118000   Left   \$34.43   33   32   Structure   R27885   Structures   NorthMain134   IWR 1S   124000   Left   \$34.43   33   32   Structure   R27918   Structures   NorthMain134   IWR 1S   124000   Left   \$14.85   36   35   Structure   R27931   Structures   NorthMain134   IWR 1S   122908   Left   \$71.22   34   33   Structure   R27932   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   Structure   R27933   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   Structure   R27945   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   Structure   R27945   Structures   NorthMain134   IWR 1S   126000   Left   \$68.69   36   35   Structure   R27964   Structures   NorthMain134   IWR 1S   126000   Left   \$8.69   36   35   Structure   R27964   Structures   NorthMain134   IWR 1S   128000   Left   \$8.69   36   35   Structure   R27964   Structures   NorthMain134   IWR 1S   128000   Left   \$8.69   36   35   Structure   R27964   Structures   NorthMain134   IWR 1S   128000   Left   \$8.69   36   35   Structure   R27965   Structures   NorthMain134   IWR 1S   128000   Left   \$8.42   36   35   Structure   R28087   Structures   NorthMain134   IWR 1S   128000   Left   \$8.42   36   35   Structure   R28087   Structures   NorthMain134   IWR 1S   128000   Left   \$8.42   36   35   Structure   R28088   Structures   NorthMain134   IWR 1S   128000   Left   \$8.42   36   36   35   Structure   R |           | <del></del>   |           |         |       |           |    |      |             |
| R27762   Structures   NorthMain134   IWR 1S   128000   Left   \$689.63   36   35   Structure   R27767   Structures   NorthMain134   IWR 1S   128000   Left   \$13.75   25   24   1 structure   R27780   Structures   NorthMain134   IWR 1S   86000   Left   \$13.75   25   24   1 structure   R27812   Structures   NorthMain134   IWR 1S   88000   Right   \$39.02   27   26   1 structure   R27853   Structures   NorthMain134   IWR 1S   118000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   IWR 1S   124000   Left   \$0.40   36   35   1 structure   R27918   Structures   NorthMain134   IWR 1S   124000   Left   \$14.85   36   35   1 structure   R27931   Structures   NorthMain134   IWR 1S   124000   Left   \$14.85   36   35   1 structure   R27932   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   1 structure   R27934   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   1 structure   R27945   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   1 structure   R27946   Structures   NorthMain134   IWR 1S   126000   Left   \$68.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR 1S   124000   Left   \$8.89   36   35   1 structure   R27965   Structures   NorthMain134   IWR 1S   128000   Left   \$8.89   36   35   1 structure   R28387   Structures   NorthMain134   IWR 1S   128000   Left   \$1.73   31   30   1 structure   R28396   Structures   NorthMain134   IWR 1S   128000   Left   \$1.73   31   30   1 structure   R28396   Structures   NorthMain134   IWR 1S   128000   Left   \$1.73   31   30   1 structure   R28396   Structures   NorthMain134   IWR 1S   128000   Left   \$1.73   36   35   1 structure   R28403   Structures   NorthMain134   IWR 1S   128000   Left   \$1.533   36   35   1 structure   R28407   Structures   NorthMain134   IWR 1S   128000   Left   \$1.533   36   35   1 structure   R28407   Structures   NorthMain134   IWR 1S   128000   Lef  |           |   |           |         |       |           |    | 33   | 1 structure |
| R27767   Structures   NorthMain134   IWR   IS   128000   Left   \$23.77   36   35   I structure   R27780   Structures   NorthMain134   IWR   IS   86000   Left   \$13.75   25   24   I structure   R27812   Structures   NorthMain134   IWR   IS   88000   Right   \$39.02   27   26   I structure   R27812   Structures   NorthMain134   IWR   IS   118000   Left   \$34.43   33   32   I structure   R27889   Structures   NorthMain134   IWR   IS   124000   Left   \$0.40   36   35   I structure   R27918   Structures   NorthMain134   IWR   IS   124000   Left   \$14.85   36   35   I structure   R27931   Structures   NorthMain134   IWR   IS   122908   Left   \$71.22   34   33   I structure   R27932   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   I structure   R27933   Structures   NorthMain134   IWR   IS   126000   Left   \$5.13   35   34   I structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$105.36   36   35   I structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$8.69   36   35   I structure   R27964   Structures   NorthMain134   IWR   IS   138000   Left   \$8.69   36   35   I structure   R27965   Structures   NorthMain134   IWR   IS   128000   Left   \$8.69   36   35   I structure   R28023   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28036   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28396   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28396   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$9.783   36   35   I structure   R28461   Structures   NorthMain134   IWR   IS   128000   Left   \$9.784   36   35   I structure   R28650   Str  |           |   |           |         |       |           |    | 35   | 1 structure |
| R27780   Structures   NorthMain134   IWR   IS   86000   Left   \$13.75   25   24   1 structure   R27812   Structures   NorthMain134   IWR   IS   88000   Right   \$39.02   27   26   1 structure   R27812   Structures   NorthMain134   IWR   IS   118000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   IWR   IS   124000   Left   \$0.40   36   35   1 structure   R27918   Structures   NorthMain134   IWR   IS   124000   Left   \$14.85   36   35   1 structure   R27931   Structures   NorthMain134   IWR   IS   122908   Left   \$71.22   34   33   1 structure   R27932   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27932   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27935   Structures   NorthMain134   IWR   IS   126000   Left   \$105.36   36   35   1 structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$8.69   36   35   1 structure   R27945   Structures   NorthMain134   IWR   IS   124000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR   IS   128000   Left   \$8.32   36   35   1 structure   R27964   Structures   NorthMain134   IWR   IS   128000   Left   \$8.32   36   35   1 structure   R28023   Structures   NorthMain134   IWR   IS   128000   Left   \$8.32   36   35   1 structure   R28037   Structures   NorthMain134   IWR   IS   128000   Left   \$8.42   36   35   1 structure   R28397   Structures   NorthMain134   IWR   IS   128000   Left   \$8.42   36   35   1 structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$8.69   42   41   1 structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.25   36   35   1 structure   R28407   Structu  |           |   |           |         |       |           |    |      |             |
| R27812   Structures   NorthMain134   IWR 1S   88000   Right   \$39.02   27   26   1 structure   R27853   Structures   NorthMain134   IWR 1S   118000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   IWR 1S   124000   Left   \$0.40   36   35   1 structure   R27889   Structures   NorthMain134   IWR 1S   124000   Left   \$14.85   36   35   1 structure   R27918   Structures   NorthMain134   IWR 1S   124000   Left   \$71.22   34   33   1 structure   R27931   Structures   NorthMain134   IWR 1S   122908   Left   \$71.22   34   33   1 structure   R27932   Structures   NorthMain134   IWR 1S   126000   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR 1S   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR 1S   136000   Left   \$105.36   36   35   1 structure   R27945   Structures   NorthMain134   IWR 1S   138000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR 1S   128000   Left   \$8.32   36   36   35   1 structure   R27985   Structures   NorthMain134   IWR 1S   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR 1S   122908   Left   \$1.73   31   30   1 structure   R28397   Structures   NorthMain134   IWR 1S   124000   Left   \$8.42   36   35   1 structure   R28396   Structures   NorthMain134   IWR 1S   128000   Left   \$8.42   36   35   1 structure   R28398   Structures   NorthMain134   IWR 1S   128000   Left   \$15.33   36   35   1 structure   R28398   Structures   NorthMain134   IWR 1S   128000   Left   \$15.33   36   35   1 structure   R28403   Structures   NorthMain134   IWR 1S   128000   Left   \$15.33   36   35   1 structure   R28403   Structures   NorthMain134   IWR 1S   128000   Left   \$16.85   42   41   1 structure   R28403   Structures   NorthMain134   IWR 1S   128000   Left   \$15.33   36   35   1 structure   R28403   Structures   NorthMain134   IWR 1S   128000   Left   \$26.54   41   40   1 structure   R28403   Structures   NorthMain134   IWR 1S   12800  |           |   |           |         |       |           |    |      |             |
| R27853   Structures   NorthMain134   IWR   IS   118000   Left   \$34.43   33   32   1 structure   R27889   Structures   NorthMain134   IWR   IS   124000   Left   \$0.40   36   35   1 structure   R27918   Structures   NorthMain134   IWR   IS   124000   Left   \$14.85   36   35   1 structure   R27918   Structures   NorthMain134   IWR   IS   122008   Left   \$77.22   34   33   1 structure   R27932   Structures   NorthMain134   IWR   IS   122008   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR   IS   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$105.36   36   35   1 structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR   IS   138000   Left   \$8.69   36   35   1 structure   R27965   Structures   NorthMain134   IWR   IS   138000   Left   \$8.32   36   35   1 structure   R28023   Structures   NorthMain134   IWR   IS   128000   Left   \$8.33   36   35   1 structure   R280303   Structures   NorthMain134   IWR   IS   122008   Left   \$1.73   31   30   1 structure   R28391   Structures   NorthMain134   IWR   IS   124000   Left   \$25.14   36   35   1 structure   R28396   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28404   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28404   Structures   NorthMain134   IWR   IS   128000   Left   \$27.78   36   35   1 structure   R28404   Structures   NorthMain134   IWR   IS   128000   Left   \$22.49   33   32   1 structure   R28654   Structures   NorthMain134   IWR   IS   128000   Left   \$26.99   36   35   1 structure   R28653   Str  |           |   |           |         |       |           |    |      |             |
| R27889   Structures   NorthMain134   IWR   1S   124000   Left   \$0.40   36   35   1 structure   R27918   Structures   NorthMain134   IWR   1S   124000   Left   \$14.85   36   35   1 structure   R27931   Structures   NorthMain134   IWR   1S   122908   Left   \$71.22   34   33   1 structure   R27932   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR   IS   126000   Left   \$5.13   35   34   1 structure   R27935   Structures   NorthMain134   IWR   IS   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$8.69   36   35   1 structure   R27954   Structures   NorthMain134   IWR   IS   124000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR   IS   138000   Left   \$8.32   36   35   1 structure   R27985   Structures   NorthMain134   IWR   IS   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR   IS   124000   Left   \$1.73   31   30   1 structure   R28397   Structures   NorthMain134   IWR   IS   124000   Left   \$25.14   36   35   1 structure   R28399   Structures   NorthMain134   IWR   IS   128000   Left   \$8.42   36   35   1 structure   R28399   Structures   NorthMain134   IWR   IS   128000   Left   \$8.42   36   35   1 structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$166.85   42   41   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$26.54   41   401   structure   R28407   Structur  |           |   |           |         |       |           |    |      |             |
| R27918   Structures   NorthMain134   IWR   IS   124000   Left   \$14.85   36   35   1 structure   R27931   Structures   NorthMain134   IWR   IS   122908   Left   \$71.22   34   33   1 structure   R27932   Structures   NorthMain134   IWR   IS   126000   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR   IS   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR   IS   136000   Left   \$105.36   36   35   1 structure   R27954   Structures   NorthMain134   IWR   IS   124000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR   IS   124000   Left   \$8.82   36   35   1 structure   R27985   Structures   NorthMain134   IWR   IS   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR   IS   122908   Left   \$1.73   31   30   1 structure   R28393   Structures   NorthMain134   IWR   IS   122908   Left   \$1.73   31   30   1 structure   R28391   Structures   NorthMain134   IWR   IS   124000   Left   \$8.42   36   35   1 structure   R28396   Structures   NorthMain134   IWR   IS   128000   Left   \$8.42   36   35   1 structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$166.85   42   41   1 structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$166.85   42   41   1 structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28401   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28401   Structures   NorthMain134   IWR   IS   128000   Left   \$16.85   42   41   1 structure   R28564   Structures   NorthMain134   IWR   IS   128000   Left   \$26.54   41   40   1 structure   R28661   Structures   NorthMain134   IWR   IS   128000   Left   \$26.59   36   35   1 structure   R28662   Str  |           |   |           |         |       |           |    |      |             |
| R27931   Structures   NorthMain134   IWR_1S   122908   Left   \$71,22   34   33   1 structure   R27932   Structures   NorthMain134   IWR_1S   126000   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR_1S   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR_1S   136000   Left   \$105.36   36   35   1 structure   R27945   Structures   NorthMain134   IWR_1S   124000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR_1S   124000   Left   \$8.32   36   35   1 structure   R27965   Structures   NorthMain134   IWR_1S   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR_1S   122908   Left   \$1.73   31   30   1 structure   R28023   Structures   NorthMain134   IWR_1S   122908   Left   \$1.73   31   30   1 structure   R28391   Structures   NorthMain134   IWR_1S   128000   Left   \$25.14   36   35   1 structure   R28396   Structures   NorthMain134   IWR_1S   128000   Left   \$166.85   42   41   1 structure   R28398   Structures   NorthMain134   IWR_1S   128000   Left   \$166.85   42   41   1 structure   R28403   Structures   NorthMain134   IWR_1S   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR_1S   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR_1S   128000   Left   \$15.33   36   35   1 structure   R28515   Structures   NorthMain134   IWR_1S   128000   Left   \$15.33   36   35   1 structure   R28515   Structures   NorthMain134   IWR_1S   128000   Left   \$27.78   36   35   1 structure   R28564   Structures   NorthMain134   IWR_1S   128000   Left   \$23.49   33   32   1 structure   R28650   Structures   NorthMain134   IWR_1S   128000   Left   \$23.49   33   32   1 structure   R28652   Structures   NorthMain134   IWR_1S   128000   Left   \$23.49   33   32   1 structure   R28652   Structures   NorthMain134   IWR_1S   128000   Left   \$23.49   33   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000  |           |   |           |         |       |           |    |      |             |
| R27932   Structures   NorthMain134   IWR   1S   126000   Left   \$68.62   35   34   1 structure   R27933   Structures   NorthMain134   IWR   1S   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR   1S   136000   Left   \$105.36   36   35   1 structure   R27954   Structures   NorthMain134   IWR   1S   124000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR   1S   128000   Left   \$8.32   36   35   1 structure   R27985   Structures   NorthMain134   IWR   1S   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR   1S   122908   Left   \$1.73   31   30   1 structure   R28337   Structures   NorthMain134   IWR   1S   1224000   Left   \$25.14   36   35   1 structure   R28391   Structures   NorthMain134   IWR   1S   128000   Left   \$8.42   36   35   1 structure   R28396   Structures   NorthMain134   IWR   1S   128000   Left   \$166.85   42   41   1 structure   R28398   Structures   NorthMain134   IWR   1S   144000   Left   \$67.70   38   37   1 structure   R28403   Structures   NorthMain134   IWR   1S   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   1S   128000   Left   \$15.33   36   35   1 structure   R28481   Structures   NorthMain134   IWR   1S   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   1S   128000   Left   \$26.54   41   40   1 structure   R28515   Structures   NorthMain134   IWR   1S   128000   Left   \$27.78   36   35   1 structure   R28641   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure   R28650   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure   R28652   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure   R28653   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   35   1 structure   R28652   Structures   NorthMain134   IWR   1S   128000   Left   \$26.99   36   35   1 structure   R28653   S  |           |   |           |         |       |           |    |      |             |
| R27933   Structures   NorthMain134   IWR   1S   126000   Left   \$5.13   35   34   1 structure   R27945   Structures   NorthMain134   IWR   1S   136000   Left   \$105.36   36   35   1 structure   R27954   Structures   NorthMain134   IWR   1S   124000   Left   \$8.69   36   35   1 structure   R27964   Structures   NorthMain134   IWR   1S   138000   Left   \$8.32   36   35   1 structure   R27965   Structures   NorthMain134   IWR   1S   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR   1S   122908   Left   \$1.73   31   30   1 structure   R28337   Structures   NorthMain134   IWR   1S   124000   Left   \$25.14   36   35   1 structure   R28391   Structures   NorthMain134   IWR   1S   128000   Left   \$8.42   36   35   1 structure   R28396   Structures   NorthMain134   IWR   1S   128000   Left   \$166.85   42   41   1 structure   R28398   Structures   NorthMain134   IWR   1S   151600   Left   \$166.85   42   41   1 structure   R28403   Structures   NorthMain134   IWR   1S   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR   1S   128000   Left   \$15.33   36   35   1 structure   R28481   Structures   NorthMain134   IWR   1S   128000   Left   \$15.33   36   35   1 structure   R28451   Structures   NorthMain134   IWR   1S   128000   Left   \$27.78   36   35   1 structure   R28515   Structures   NorthMain134   IWR   1S   124000   Left   \$27.78   36   35   1 structure   R28564   Structures   NorthMain134   IWR   1S   128000   Left   \$27.78   36   35   1 structure   R28650   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure   R28650   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure   R28652   Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure   R28653   Structures   NorthMain134   IWR   1S   128000   Left   \$26.99   36   35   1 structure   R28653   Structures   NorthMain134   IWR   1S   128000   Left   \$3.82   36   35   1 structure   R28653   St  |           |   |           |         |       |           |    |      |             |
| R27945   Structures   NorthMain134   IWR   1S   136000   Left   \$105.36   36   35   1 structure   |           |   |           |         |       |           |    |      |             |
| R27954   Structures   NorthMain134   IWR   IS   124000   Left   \$8.69   36   35   I structure   R27964   Structures   NorthMain134   IWR   IS   128000   Left   \$8.32   36   35   I structure   R27985   Structures   NorthMain134   IWR   IS   128000   Left   \$7.83   36   35   I structure   R28023   Structures   NorthMain134   IWR   IS   122908   Left   \$1.73   31   30   I structure   R28387   Structures   NorthMain134   IWR   IS   124000   Left   \$25.14   36   35   I structure   R28391   Structures   NorthMain134   IWR   IS   128000   Left   \$8.42   36   35   I structure   R28396   Structures   NorthMain134   IWR   IS   151600   Left   \$166.85   42   41   I structure   R28398   Structures   NorthMain134   IWR   IS   128000   Left   \$67.70   38   37   I structure   R28403   Structures   NorthMain134   IWR   IS   128000   Left   \$15.33   36   35   I structure   R28407   Structures   NorthMain134   IWR   IS   128000   Left   \$11.25   36   35   I structure   R28481   Structures   NorthMain134   IWR   IS   128000   Left   \$26.54   41   40   I structure   R28515   Structures   NorthMain134   IWR   IS   153231   Left   \$26.54   41   40   I structure   R28564   Structures   NorthMain134   IWR   IS   124000   Left   \$27.78   36   35   I structure   R28650   Structures   NorthMain134   IWR   IS   128000   Left   \$23.49   33   32   I structure   R28650   Structures   NorthMain134   IWR   IS   128000   Left   \$3.82   36   35   I structure   R28650   Structures   NorthMain134   IWR   IS   128000   Left   \$3.82   36   35   I structure   R28650   Structures   NorthMain134   IWR   IS   128000   Left   \$3.82   36   35   I structure   R28653   Structures   NorthMain134   IWR   IS   128000   Left   \$3.82   36   35   I structure   R28653   Structures   NorthMain134   IWR   IS   128000   Left   \$75.81   36   35   I structure   R28653   Structures   NorthMain134   IWR   IS   128000   Left   \$75.81   36   35   I structure   R28653   Structures   NorthMain134   IWR   IS   128000   Left   \$75.81   36   35   I structure   INTRUCTURE   No  |           |   |           |         |       |           |    |      |             |
| R27964         Structures   NorthMain134   IWR   1S   138000   Left   \$8.32   36   35   1 structure           R27985         Structures   NorthMain134   IWR   1S   128000   Left   \$7.83   36   35   1 structure           R28023         Structures   NorthMain134   IWR   1S   122908   Left   \$1.73   31   30   1 structure           R28387         Structures   NorthMain134   IWR   1S   124000   Left   \$25.14   36   35   1 structure           R28391         Structures   NorthMain134   IWR   1S   128000   Left   \$8.42   36   35   1 structure           R28396         Structures   NorthMain134   IWR   1S   151600   Left   \$166.85   42   41   1 structure           R28403         Structures   NorthMain134   IWR   1S   128000   Left   \$67.70   38   37   1 structure           R28407         Structures   NorthMain134   IWR   1S   128000   Left   \$11.25   36   35   1 structure           R28481         Structures   NorthMain134   IWR   1S   128000   Left   \$26.54   41   40   1 structure           R28564         Structures   NorthMain134   IWR   1S   124000   Left   \$27.78   36   35   1 structure           R28641         Structures   NorthMain134   IWR   1S   124000   Left   \$23.49   33   32   1 structure           R28650         Structures   NorthMain134   IWR   1S   128000   Left   \$23.49   33   32   1 structure           R28652         Structures   NorthMain134   IWR   1S   128000   Left   \$26.99   36   35   1 structure           R28653         Structures   NorthMain134   IWR   1S   128000   Left   \$75.81   36   35   1 structure <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>35</td> <td>1 structure</td>  |           |   |           |         |       |           |    | 35   | 1 structure |
| R27985   Structures   NorthMain134   IWR_1S   128000   Left   \$7.83   36   35   1 structure   R28023   Structures   NorthMain134   IWR_1S   122908   Left   \$1.73   31   30   1 structure   R28387   Structures   NorthMain134   IWR_1S   124000   Left   \$25.14   36   35   1 structure   R28391   Structures   NorthMain134   IWR_1S   128000   Left   \$8.42   36   35   1 structure   R28396   Structures   NorthMain134   IWR_1S   151600   Left   \$166.85   42   41   1 structure   R28398   Structures   NorthMain134   IWR_1S   144000   Left   \$67.70   38   37   1 structure   R28403   Structures   NorthMain134   IWR_1S   128000   Left   \$15.33   36   35   1 structure   R28407   Structures   NorthMain134   IWR_1S   128000   Left   \$11.25   36   35   1 structure   R28481   Structures   NorthMain134   IWR_1S   128000   Left   \$26.54   41   40   1 structure   R28515   Structures   NorthMain134   IWR_1S   124000   Left   \$27.78   36   35   1 structure   R28564   Structures   NorthMain134   IWR_1S   124000   Left   \$27.78   36   35   1 structure   R28650   Structures   NorthMain134   IWR_1S   128000   Left   \$23.49   33   32   1 structure   R28650   Structures   NorthMain134   IWR_1S   128000   Left   \$3.82   36   35   1 structure   R28650   Structures   NorthMain134   IWR_1S   128000   Left   \$3.82   36   35   1 structure   R28652   Structures   NorthMain134   IWR_1S   128000   Left   \$3.82   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000   Left   \$3.82   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000   Left   \$75.81   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000   Left   \$75.81   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000   Left   \$75.81   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000   Left   \$75.81   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000   Left   \$75.81   36   35   1 structure   R28653   Structures   NorthMain134   IWR_1S   128000     |           |   |           |         |       |           |    |      |             |
| R28023         Structures         NorthMain134         IWR_1S         122908 Left         \$1.73         31         30 I structure           R28387         Structures         NorthMain134         IWR_1S         124000 Left         \$25.14         36         35 I structure           R28391         Structures         NorthMain134         IWR_1S         128000 Left         \$8.42         36         35 I structure           R28396         Structures         NorthMain134         IWR_1S         151600 Left         \$166.85         42         41 I structure           R28398         Structures         NorthMain134         IWR_1S         144000 Left         \$67.70         38         37 I structure           R28403         Structures         NorthMain134         IWR_1S         128000 Left         \$15.33         36         35 I structure           R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35 I structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40 I structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 I   |           |   |           |         |       |           |    |      |             |
| R28387         Structures         NorthMain134         IWR_1S         124000 Left         \$25.14         36         35 I structure           R28391         Structures         NorthMain134         IWR_1S         128000 Left         \$8.42         36         35 I structure           R28396         Structures         NorthMain134         IWR_1S         151600 Left         \$166.85         42         41 I structure           R28398         Structures         NorthMain134         IWR_1S         144000 Left         \$67.70         38         37 I structure           R28403         Structures         NorthMain134         IWR_1S         128000 Left         \$15.33         36         35 I structure           R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35 I structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40 I structure           R28515         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 I structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$3.82         36         35 I   |           |   |           |         |       |           |    |      |             |
| R28391         Structures         NorthMain134         IWR_1S         128000 Left         \$8.42         36         35 1 structure           R28396         Structures         NorthMain134         IWR_1S         151600 Left         \$166.85         42         41 1 structure           R28398         Structures         NorthMain134         IWR_1S         144000 Left         \$67.70         38         37 1 structure           R28403         Structures         NorthMain134         IWR_1S         128000 Left         \$15.33         36         35 1 structure           R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35 1 structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40 1 structure           R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35 1 structure           R28640         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 1   |           |   |           |         |       |           |    |      |             |
| R28396         Structures         NorthMain134         IWR_1S         151600 Left         \$166.85         42         41   1 structure           R28398         Structures         NorthMain134         IWR_1S         144000 Left         \$67.70         38         37   1 structure           R28403         Structures         NorthMain134         IWR_1S         128000 Left         \$15.33         36         35   1 structure           R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35   1 structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40   1 structure           R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35   1 structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45   1 structure           R28641         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35   1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36  |           |   |           |         |       |           |    |      |             |
| R28398         Structures         NorthMain134         IWR_1S         144000 Left         \$67.70         38         37   1 structure           R28403         Structures         NorthMain134         IWR_1S         128000 Left         \$15.33         36         35   1 structure           R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35   1 structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40   1 structure           R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35   1 structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45   1 structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32   1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35   1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36  |           |   |           |         |       |           |    | 35   | 1 structure |
| R28403         Structures         NorthMain134         IWR_1S         128000 Left         \$15.33         36         35 1 structure           R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35 1 structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40 1 structure           R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35 1 structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 1 structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32 1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35 1 structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35 1   |           |   |           |         |       |           |    |      |             |
| R28407         Structures         NorthMain134         IWR_1S         128000 Left         \$11.25         36         35 I structure           R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40 I structure           R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35 I structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 I structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32 I structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 I structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35 I structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35 I structure   |           |   |           |         |       |           |    |      |             |
| R28481         Structures         NorthMain134         IWR_1S         153231 Left         \$26.54         41         40   1 structure           R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35   1 structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45   1 structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32   1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35   1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35   1 structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35   1 structure   |           |   |           |         |       |           |    |      |             |
| R28515         Structures         NorthMain134         IWR_1S         124000 Left         \$27.78         36         35 1 structure           R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 1 structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32 1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35 1 structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35 1 structure   |           |   |           |         |       |           |    | 35   | structure   |
| R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 1 structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32 1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35 1 structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35 1 structure   |           | · - · - · - · - · - · - · - · - · · - · · - · |           |         |       |           |    |      |             |
| R28564         Structures         NorthMain134         IWR_1S         152561 Left         \$41.67         46         45 1 structure           R28641         Structures         NorthMain134         IWR_1S         118000 Left         \$23.49         33         32 1 structure           R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35 1 structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35 1 structure   |           |   |           |         |       |           |    | 35   | structure   |
| R28650         Structures         NorthMain134         IWR_1S         128000 Left         \$3.82         36         35 1 structure           R28652         Structures         NorthMain134         IWR_1S         128000 Left         \$26.99         36         35 1 structure           R28653         Structures         NorthMain134         IWR_1S         128000 Left         \$75.81         36         35 1 structure   |           |   |           |         |       |           |    |      |             |
| R28652 Structures NorthMain134 WR_1S 128000 Left \$26.99 36 35 1 structure R28653 Structures NorthMain134 WR_1S 128000 Left \$75.81 36 35 1 structure  |           |   |           |         |       |           |    | 32 1 | structure   |
| R28653 Structures NorthMain134   WR_1S   128000   Left   \$75.81   36   35   1 structure   |           |   |           |         |       |           | 36 | 35   | structure   |
| R28653 Structures NorthMain134 WR_1S 128000 Left \$75.81 36 35 1 structure   |           |   |           |         |       |           | 36 |      |             |
| R28664 Structures NorthMain134 IWR_1S 128000 Left \$13.39 36 35 1 structure  |           |   |           |         |       |           |    |      |             |
|  | K28664    | Structures NorthMain134   | IWR_1S    | 128000  | _eft  | \$13.39   | 36 | 35 1 | structure   |

| R28673   Structures   NorthMain134   WR   S   128000   Left   \$10.44   \$36   \$35   structure   R28707   Structures   NorthMain134   WR   S   102000   Left   \$34.23   26   25   structure   R28707   Structures   NorthMain134   WR   S   102000   Reft   \$42.23   26   25   structure   R28718   Structures   NorthMain134   WR   S   102000   Reft   \$42.23   26   25   structure   R28718   Structures   NorthMain134   WR   S   102000   Reft   \$42.23   26   25   structure   R28718   Structures   NorthMain134   WR   S   112000   Left   \$43.76   34   33   structure   R28718   Structures   NorthMain134   WR   S   114000   Left   \$43.76   34   33   structure   R28724   Structures   NorthMain134   WR   S   114000   Left   \$43.76   34   33   structure   R28734   Structures   NorthMain134   WR   S   114000   Left   \$43.76   34   33   Structures   R28734   Structures   NorthMain134   WR   S   114000   Left   \$40.30   33   32   structure   R28734   Structures   NorthMain134   WR   S   140000   Left   \$40.30   35   34   structure   R28734   Structures   NorthMain134   WR   S   140000   Left   \$40.30   35   34   structure   R28734   Structures   NorthMain134   WR   S   140000   Left   \$40.80   35   34   structure   R28734   Structures   NorthMain134   WR   S   140000   Left   \$40.80   36   35   structures   R28734   Structures   NorthMain134   WR   S   140000   Left   \$40.80   36   35   structures   R28734   Structures   NorthMain134   WR   S   12000   Left   \$40.80   36   35   structures   R28734   Structures   NorthMain134   WR   S   12000   Left   \$50.90   31   30   structure   R28734   Structures   NorthMain134   WR   S   12000   Left   \$50.90   31   30   structure   R28734   Structures   NorthMain134   WR   S   12000   Left   \$50.50   36   35   structure   R28734   Structures   NorthMain134   WR   S   12000   Left   \$50.50   36   35   structure   R28734   Structures   NorthMain134   WR   S   12000   Left   \$50.50   36   35   structure   R28734   Structures   NorthMain134   WR   S   12000   Left   \$50.50   36   35   structure  | Struc Name     | Cat name     | Stream name                           | Occ Name     | Station     | Bank        | Struc Val | 1F Stano | Grad Stage Notes                      |
|---|----------------|--------------|---------------------------------------|--------------|-------------|-------------|-----------|----------|---------------------------------------|
| R28700   Structures   NorthMain134   WR   S   102000   Left   \$94.17   31   30   I structure   R28713   Structures   NorthMain134   WR   S   80000   Left   \$42.83   26   27   I structure   R28713   Structures   NorthMain134   WR   S   112000   Right   \$42.83   26   27   I structure   R28713   Structures   NorthMain134   WR   S   112000   Left   \$10.539   36   35   I structure   R28722   Structures   NorthMain134   WR   S   112000   Left   \$10.539   36   35   I structure   R28723   Structures   NorthMain134   WR   S   112000   Left   \$12.00   35   34   I structure   R28733   Structures   NorthMain134   WR   S   112000   Left   \$12.00   35   34   I structure   R28737   Structures   NorthMain134   WR   S   112000   Left   \$84.49   40   39   I structure   R28752   Structures   NorthMain134   WR   S   112000   Left   \$84.49   40   39   I structure   R28753   Structures   NorthMain134   WR   S   140000   Left   \$18.24   40   39   I structure   R28754   Structures   NorthMain134   WR   S   140000   Left   \$18.24   40   39   I structure   R28757   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28757   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28757   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28757   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28757   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28759   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28759   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   35   I structure   R28759   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   37   36   S   I structure   R28759   Structures   NorthMain134   WR   S   12000   Left   \$4.06   36   37   S   I structure   R28759   Structures   NorthMain134   WR   S   12000   Left   \$4.36   37   36   S   I structure   R28759   Structures   NorthMain134   WR   S   1200   |                |              | <del></del>                           | <del> </del> |             |             |           |          |                                       |
| R28707   Structures   NorthMain134   WPR   S   12000   Right   \$0.60   32   31   structures   R28718   Structures   NorthMain134   WPR   S   12000   Right   \$0.60   32   31   structures   R28718   Structures   NorthMain134   WPR   S   12000   Right   \$0.60   32   31   structures   R28718   Structures   NorthMain134   WPR   S   12000   Left   \$15.58   36   35   structures   R28729   Structures   NorthMain134   WPR   S   112000   Left   \$43.76   34   33   structures   R2873   Structures   NorthMain134   WPR   S   112000   Left   \$43.76   34   33   structures   R2873   Structures   NorthMain134   WPR   S   112000   Left   \$97.30   33   32   structures   R28747   Structures   NorthMain134   WPR   S   14000   Left   \$97.30   33   32   structures   R28751   Structures   NorthMain134   WPR   S   14000   Left   \$40.80   35   34   structure   R28752   Structures   NorthMain134   WPR   S   14000   Left   \$18.24   40   39   structures   R28754   Structures   NorthMain134   WPR   S   14000   Left   \$18.00   35   34   structures   R28754   Structures   NorthMain134   WPR   S   14000   Left   \$40.80   36   35   structures   R28755   Structures   NorthMain134   WPR   S   14000   Left   \$40.80   36   35   structures   R28755   Structures   NorthMain134   WPR   S   12000   Left   \$40.80   36   35   structures   R28755   Structures   NorthMain134   WPR   S   12000   Left   \$50.90   31   30   structure   R28755   Structures   NorthMain134   WPR   S   12000   Left   \$50.90   31   30   structure   R28756   Structures   NorthMain134   WPR   S   12000   Left   \$50.90   31   30   structure   R28756   Structures   NorthMain134   WPR   S   12000   Left   \$50.30   30   30   Structures   R28756   Structures   NorthMain134   WPR   S   12000   Left   \$30.27   36   36   Structures   R28756   Structures   NorthMain134   WPR   S   12000   Left   \$30.27   36   35   structure   R28756   Structures   NorthMain134   WPR   S   12000   Left   \$30.27   36   35   structure   R28756   Structures   NorthMain134   WPR   S   12000   Left   \$30.27   36    |                |              |                                       |              |             |             |           |          |                                       |
| R28713   Structures   NorthMain134   IWR   15   112000   Right   50.60   32   31   1 structure   R28722   Structures   NorthMain134   IWR   15   112000   Left   51.65.6   36   35   structures   R28722   Structures   NorthMain134   IWR   15   112000   Left   51.200   35   34   1 structure   R28723   Structures   NorthMain134   IWR   15   112000   Left   597.30   33   33   1 structures   R28737   Structures   NorthMain134   IWR   15   112000   Left   597.30   33   33   1 structure   R28757   Structures   NorthMain134   IWR   15   112000   Left   597.30   33   33   1 structure   R28757   Structures   NorthMain134   IWR   15   112000   Left   597.30   33   33   1 structure   R28757   Structures   NorthMain134   IWR   15   112000   Left   518.24   40   391   structure   R28753   Structures   NorthMain134   IWR   15   140000   Left   518.24   40   391   structure   R28753   Structures   NorthMain134   IWR   15   140000   Left   518.24   40   391   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   518.00   35   34   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   52.217   32   31   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   52.217   32   31   structure   R28757   Structures   NorthMain134   IWR   15   98000   Left   52.90   31   30   structure   R28757   Structures   NorthMain134   IWR   15   98000   Left   519.00   32   31   structure   R28757   Structures   NorthMain134   IWR   15   98000   Left   519.00   32   31   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   53.50   36   37   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   53.32   40   33   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   53.32   40   33   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   53.32   40   33   structure   R28757   Structures   NorthMain134   IWR   15   124000   Left   53.32   40   33   structure   R28757   Structures   NorthMain134   IWR                        |                |              |                                       |              |             | <del></del> |           |          |                                       |
| R28718   Structures   NorthMain134   IWR   IS   108000   Left   \$16.50   36   35   I structure   R28723   Structures   NorthMain134   IWR   IS   112000   Left   \$43.76   34   33   Structures   R28733   Structures   NorthMain134   IWR   IS   112000   Left   \$37.20   35   33   32   I structure   R28737   Structures   NorthMain134   IWR   IS   112000   Left   \$57.30   33   32   I structure   R28757   Structures   NorthMain134   IWR   IS   112000   Left   \$64.49   40   33   I structure   R28756   Structures   NorthMain134   IWR   IS   113038   Left   \$19.11   35   34   I structure   R28756   Structures   NorthMain134   IWR   IS   113038   Left   \$19.11   35   34   I structure   R28757   Structures   NorthMain134   IWR   IS   134000   Left   \$18.24   40   36   36   31   I structure   R28757   Structures   NorthMain134   IWR   IS   134000   Left   \$18.00   36   36   34   I structure   R28758   Structures   NorthMain134   IWR   IS   124000   Left   \$4.06   36   36   34   I structure   R28758   Structures   NorthMain134   IWR   IS   124000   Left   \$4.06   36   36   34   I structure   R28759   Structures   NorthMain134   IWR   IS   102000   Left   \$6.99   31   30   I structure   R28759   Structures   NorthMain134   IWR   IS   102000   Left   \$6.99   31   30   I structure   R28759   Structures   NorthMain134   IWR   IS   102000   Left   \$6.89   31   30   I structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.88   32   32   31   structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.84   36   37   36   structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.84   36   37   36   structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.84   36   36   35   structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.90   30   36   36   structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.90   36   36   structure   R28759   Structures   NorthMain134   IWR   IS   124000   Left   \$6.90   36  |                |              | <del></del>                           |              |             |             |           |          |                                       |
| R28722         Structures   NorthMain134   IWR   1S   112000   Left   \$34,376   34   33   1 structure   R28747   Structures   NorthMain134   IWR   1S   112000   Left   \$32,30   33   33   1 structure   R28747   Structures   NorthMain134   IWR   1S   112000   Left   \$367,30   33   33   31   structure   R28751   Structures   NorthMain134   IWR   1S   112000   Left   \$364,49   40   391   structure   R28752   Structures   NorthMain134   IWR   1S   140000   Left   \$364,49   40   391   structure   R28753   Structures   NorthMain134   IWR   1S   140000   Left   \$18,24   40   391   structure   R28754   Structures   NorthMain134   IWR   1S   140000   Left   \$18,00   35   34   f structure   R28757   Structures   NorthMain134   IWR   1S   124000   Left   \$18,00   36   35   f structure   R28767   Structures   NorthMain134   IWR   1S   124000   Left   \$4,08   36   35   f structure   R28767   Structures   NorthMain134   IWR   1S   124000   Left   \$22,17   32   311   structure   R28767   Structures   NorthMain134   IWR   1S   12000   Left   \$22,17   32   311   structure   R28767   Structures   NorthMain134   IWR   1S   102000   Left   \$22,17   32   311   structure   R28767   Structures   NorthMain134   IWR   1S   102000   Left   \$36,89   31   30   1 structure   R28767   Structures   NorthMain134   IWR   1S   102000   Left   \$30,50   32   311   structure   R28767   Structures   NorthMain134   IWR   1S   124000   Left   \$30,50   36   35   structure   R28767   Structures   NorthMain134   IWR   1S   124000   Left   \$30,50   36   35   structure   R28767   Structures   NorthMain134   IWR   1S   124000   Left   \$30,50   36   35   structure   R28910   Structures   NorthMain134   IWR   1S   124000   Left   \$30,50   36   35   structure   R28910   Structures   NorthMain134   IWR   1S   124000   Left   \$30,50   36   35   structure   R29102   Structures   NorthMain134   IWR   1S   124000   Left   \$30,50   36   35   structure   R29102   Structures   NorthMain134   IWR   1S   126000   Left   \$30,50   36   35                                   |                |              |                                       |              |             |             |           |          | <del></del>                           |
| R2873   Structures   NorthMain134   IWR   S   114000   Left   \$12.00   36   34   1 structure   R28751   Structures   NorthMain134   IWR   S   114000   Left   \$07.30   33   32   structures   R28751   Structures   NorthMain134   IWR   S   140000   Left   \$07.30   33   32   structures   R28752   Structures   NorthMain134   IWR   S   113338   Left   \$19.11   35   34   structures   R28753   Structures   NorthMain134   IWR   S   140000   Left   \$18.24   40   39   structures   R28753   Structures   NorthMain134   IWR   S   140000   Left   \$18.00   35   34   structures   R28767   Structures   NorthMain134   IWR   S   140000   Left   \$18.00   35   34   structures   R28767   Structures   NorthMain134   IWR   S   140000   Left   \$4.06   36   36   35   structures   R28767   Structures   NorthMain134   IWR   S   120000   Left   \$2.217   32   31   structure   R28767   Structures   NorthMain134   IWR   S   102000   Left   \$6.99   31   30   structures   R28767   Structures   NorthMain134   IWR   S   102000   Left   \$6.99   31   30   structures   R28769   Structures   NorthMain134   IWR   S   102000   Left   \$6.99   31   30   structures   R28769   Structures   NorthMain134   IWR   S   102000   Left   \$6.99   31   30   structures   R28769   Structures   NorthMain134   IWR   S   124000   Left   \$6.98   26   27   structure   R28793   Structures   NorthMain134   IWR   S   124000   Left   \$6.88   26   27   structure   R28910   Structures   NorthMain134   IWR   S   124000   Left   \$34.65   37   36   35   structure   R28910   Structures   NorthMain134   IWR   S   124000   Left   \$34.65   37   36   35   structure   R28910   Structures   NorthMain134   IWR   S   124000   Left   \$30.50   36   35   structure   R28910   Structures   NorthMain134   IWR   S   124000   Left   \$30.07   36   35   structure   R28910   Structures   NorthMain134   IWR   S   124000   Left   \$30.07   36   35   structure   R28910   Structures   NorthMain134   IWR   S   128000   Left   \$30.07   36   35   structure   R28910   Structures   NorthMain134   IWR   S   12800 | and the second |              |                                       |              |             | L           |           |          |                                       |
| R28747   Structures   NorthMein134   WR 15   112000   Left   \$97.30   33   32   1 structure   R28751   Structures   NorthMein134   WR 15   140000   Left   \$84.49   40   391   structure   R28752   Structures   NorthMein134   WR 15   140000   Left   \$18.24   40   391   structure   R28753   Structures   NorthMein134   WR 15   140000   Left   \$18.24   40   391   structure   R28767   Structures   NorthMein134   WR 15   140000   Left   \$18.24   40   391   structure   R28767   Structures   NorthMein134   WR 15   124000   Left   \$4.08   36   35   structure   R28767   Structures   NorthMein134   WR 15   124000   Left   \$2.217   32   31   structure   R28767   Structures   NorthMein134   WR 15   124000   Left   \$2.217   32   31   structure   R28768   Structures   NorthMein134   WR 15   98000   Left   \$5.99   31   30   structure   R28769   Structures   NorthMein134   WR 15   98000   Left   \$5.99   31   30   structure   R28769   Structures   NorthMein134   WR 15   98000   Left   \$5.99   31   30   structure   R28761   Structures   NorthMein134   WR 15   124000   Left   \$5.96   36   37   structure   R28761   Structures   NorthMein134   WR 15   124000   Left   \$5.96   36   37   structure   R28761   Structures   NorthMein134   WR 15   124000   Left   \$34.65   37   36   structure   R28825   Structures   NorthMein134   WR 15   124000   Left   \$34.36   36   35   structure   R28910   Structures   NorthMein134   WR 15   124000   Left   \$32.35   40   39   structure   R28910   Structures   NorthMein134   WR 15   124000   Left   \$32.07   36   35   structure   R29102   Structures   NorthMein134   WR 15   129441   Left   \$29.70   36   35   structure   R29112   Structures   NorthMein134   WR 15   128000   Left   \$32.07   36   35   structure   R29113   Structures   NorthMein134   WR 15   128000   Left   \$2.27   34   33   structure   R29114   Structures   NorthMein134   WR 15   128000   Left   \$2.27   34   33   structure   R29143   Structures   NorthMein134   WR 15   128000   Left   \$2.27   34   33   structure   R29144   Structures   Nort  |                |              |                                       |              | 1           |             |           |          |                                       |
| R28751         Structures         NorthMain134         WRR 1S         140000 Left         \$64.49         40         39 I structure           R28752         Structures         NorthMain134         WRR 1S         113338 Left         \$19.11         355         34 I structure           R28753         Structures         NorthMain134         IWR 1S         140000 Left         \$18.24         40         39 I structure           R28767         Structures         NorthMain134         IWR 1S         134000 Left         \$4.08         36         35 I structure           R28765         Structures         NorthMain134         IWR 1S         102000 Left         \$4.08         36         35 I structure           R28786         Structures         NorthMain134         IWR 1S         102000 Left         \$56.99         31         01 structure           R287879         Structures         NorthMain134         IWR 1S         102000 Left         \$56.99         31         01 structure           R28793         Structures         NorthMain134         IWR 1S         120000 Left         \$56.84         28         271 structure           R28793         Structures         NorthMain134         IWR 1S         124000 Left         \$56.48         36         35 I stru   |                |              |                                       |              |             |             |           |          |                                       |
| R2B752         Structures         NorthMain134         WR 1S         113338 Left         \$19,11         35         34   structure           R28754         Structures         NorthMain134         WR 1S         140000 Left         \$18.24         40         39   structure           R28765         Structures         NorthMain134         WR 1S         124000 Left         \$18.00         35         34   structure           R28765         Structures         NorthMain134         WR 1S         124000 Left         \$4.08         36         35   structure           R28767         Structures         NorthMain134         WR 1S         124000 Left         \$4.08         36         31   structure           R28787         Structures         NorthMain134         WR 1S         98000 Left         \$6.99         31         30   structure           R28791         Structures         NorthMain134         WR 1S         98000 Left         \$68.84         28         27   structure           R28791         Structures         NorthMain134         WR 1S         124000 Left         \$30.50         36         35   structure           R28793         Structures         NorthMain134         WR 1S         124000 Left         \$34.65         37         36   structure <td></td> <td></td> <td><del></del></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                |              | <del></del>                           |              |             |             |           |          |                                       |
| R28753         Structures         NorthMein134         WR 1S         140000 Left         \$18.24         40         39 I structure           R28767         Structures         NorthMain134         WR 1S         134000 Left         \$18.00         35         34 I structure           R28767         Structures         NorthMain134         IWR 1S         124000 Left         \$4.08         36         35 I structures           R28786         Structures         NorthMain134         IWR 1S         102000 Left         \$56.99         31 0 1 structure           R287876         Structures         NorthMain134         IWR 1S         102000 Left         \$6.99         31 0 1 structure           R28798         Structures         NorthMain134         IWR 1S         102000 Left         \$88.84         28         27 1 structure           R28793         Structures         NorthMain134         IWR 1S         124000 Left         \$0.50         36         35 1 structure           R28910         Structures         NorthMain134         IWR 1S         124000 Left         \$0.50         36         35 1 structure           R29020         Structures         NorthMain134         IWR 1S         124000 Left         \$0.50         36         35 1 structure  |                |              |                                       | <del></del>  |             |             |           |          |                                       |
| R28764   Structures   NorthMain134   IWR   15   134000   Left   \$18.00   35   34   1 structure   R28787   Structures   NorthMain134   IWR   15   124000   Left   \$4.08   36   35   1 structure   R28787   Structures   NorthMain134   IWR   15   124000   Left   \$22.17   32   31   1 structure   R28787   Structures   NorthMain134   IWR   15   98000   Left   \$19.00   32   31   1 structure   R28787   Structures   NorthMain134   IWR   15   98000   Left   \$19.00   32   31   1 structure   R28789   Structures   NorthMain134   IWR   15   102000   Left   \$19.00   32   31   1 structure   R28791   Structures   NorthMain134   IWR   15   124000   Left   \$0.50   36   35   1 structure   R28824   Structures   NorthMain134   IWR   15   124000   Left   \$34.65   37   36   1 structure   R28824   Structures   NorthMain134   IWR   15   124000   Left   \$34.65   37   36   1 structure   R28825   Structures   NorthMain134   IWR   15   124000   Left   \$32.60   40   39   1 structure   R28910   Structures   NorthMain134   IWR   15   132400   Left   \$29.70   36   35   1 structure   R28910   Structures   NorthMain134   IWR   15   1229441   Left   \$29.70   36   35   1 structure   R29102   Structures   NorthMain134   IWR   15   1229441   Left   \$29.70   36   35   1 structure   R29112   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29121   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29121   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.95   54   40   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.95   53   41   40   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.95   53   54   54   54   54   54    |                |              |                                       |              |             |             |           |          |                                       |
| R28767   Structures   NorthMain134   IWR   15   124000   Left   \$4.08   36   35   1 structure   R28787   Structures   NorthMain134   IWR   15   102000   Left   \$22.17   32   31   1 structure   R287887   Structures   NorthMain134   IWR   15   102000   Left   \$5.99   31   30   1 structure   R28789   Structures   NorthMain134   IWR   15   102000   Left   \$19.00   32   31   1 structure   R28789   Structures   NorthMain134   IWR   15   102000   Left   \$19.00   32   31   1 structure   R287913   Structures   NorthMain134   IWR   15   102000   Left   \$6.88   48   27   structure   R28793   Structures   NorthMain134   IWR   15   124000   Left   \$0.50   36   35   1 structure   R288910   Structures   NorthMain134   IWR   15   124000   Left   \$34.65   37   36   35   1 structure   R288910   Structures   NorthMain134   IWR   15   124000   Left   \$33.26   40   39   1 structure   R28992   Structures   NorthMain134   IWR   15   153231   Left   \$33.26   40   39   1 structure   R28902   Structures   NorthMain134   IWR   15   153231   Left   \$30.27   36   35   1 structure   R29102   Structures   NorthMain134   IWR   15   128000   Left   \$30.27   36   35   1 structure   R29121   Structures   NorthMain134   IWR   15   128000   Left   \$30.27   36   35   1 structure   R29121   Structures   NorthMain134   IWR   15   128000   Left   \$33.45   41   40   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$33.45   41   40   1 structure   R29144   Structures   NorthMain134   IWR   15   128000   Left   \$32.47   33   31   structure   R29147   Structures   NorthMain134   IWR   15   128000   Left   \$32.47   35   34   35   1 structure   R29147   Structures   NorthMain134   IWR   15   128000   Left   \$42.47   35   36   35   1 structure   R29147   Structures   NorthMain134   IWR   15   128000   Left   \$42.47   35   34   1 structure   R29147   Structures   NorthMain134   IWR   15   128000   Left   \$42.47   35   34   1 structure   R29153   Structures   NorthMain134   IWR   15   128000   Left   \$42.47   35   34   1 structur   |                |              | ·                                     |              |             |             |           |          |                                       |
| R28785   Structures   NorthMain134   IWR   15   102000   Left   \$22,17   32   31   1 structure   R28787   Structures   NorthMain134   IWR   15   98000   Left   \$5,99   31   30   1 structure   R28788   Structures   NorthMain134   IWR   15   98000   Left   \$19,00   32   31   1 structure   R28787   Structures   NorthMain134   IWR   15   98000   Left   \$19,00   32   31   1 structure   R28787   Structures   NorthMain134   IWR   15   98000   Left   \$68.84   28   27   1 structure   R28787   Structures   NorthMain134   IWR   15   124000   Left   \$68.84   28   27   1 structure   R288283   Structures   NorthMain134   IWR   15   124000   Left   \$34.65   37   36   1 structure   R28824   Structures   NorthMain134   IWR   15   124000   Left   \$34.65   37   36   1 structure   R28925   Structures   NorthMain134   IWR   15   124000   Left   \$33.26   40   39   1 structure   R28925   Structures   NorthMain134   IWR   15   129441   Left   \$29.70   36   35   1 structure   R289102   Structures   NorthMain134   IWR   15   129441   Left   \$29.70   36   35   1 structure   R29102   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29120   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29123   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   35   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.72   34   35   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$26.41   34   36   35   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.91   36   35   1 structure   R29143   Structures   NorthMain134   IWR   15   128000   Left   \$20.91   36   35   1 structure   R29153   Structures   NorthMain134   IWR   15   128000   Left   \$22.41   36   35   1 structure   R2916   |                |              |                                       |              |             |             |           |          |                                       |
| R28787   Structures   NorthMain134   WR   1S   98000   Left   \$6.99   31   30   1 structure   R28789   Structures   NorthMain134   WR   1S   102000   Left   \$68.84   28   271   1 structure   R28793   Structures   NorthMain134   WR   1S   98000   Left   \$68.84   28   271   1 structure   R28793   Structures   NorthMain134   WR   1S   124000   Left   \$0.50   36   35   1 structure   R28913   Structures   NorthMain134   WR   1S   116000   Left   \$0.50   36   35   1 structure   R28910   Structures   NorthMain134   WR   1S   124000   Left   \$3.34   65   37   36   1 structure   R28910   Structures   NorthMain134   WR   1S   124000   Left   \$3.32   40   39   1 structure   R289092   Structures   NorthMain134   WR   1S   129441   Left   \$30.27   36   35   1 structure   R29002   Structures   NorthMain134   WR   1S   129441   Left   \$30.27   36   35   1 structure   R29102   Structures   NorthMain134   WR   1S   128000   Left   \$30.27   36   35   1 structure   R29112   Structures   NorthMain134   WR   1S   128000   Left   \$20.72   34   33   1 structure   R29123   Structures   NorthMain134   WR   1S   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   WR   1S   126000   Left   \$20.72   34   33   1 structure   R29144   Structures   NorthMain134   WR   1S   126000   Left   \$20.17   36   35   1 structure   R29144   Structures   NorthMain134   WR   1S   126000   Left   \$20.15   41   40   1 structure   R29147   Structures   NorthMain134   WR   1S   126000   Left   \$17.41   36   35   1 structure   R29151   Structures   NorthMain134   WR   1S   128000   Left   \$15.26   33   32   1 structure   R29151   Structures   NorthMain134   WR   1S   128000   Left   \$15.26   33   32   1 structure   R29151   Structures   NorthMain134   WR   1S   128000   Left   \$15.26   33   32   1 structure   R29150   Structures   NorthMain134   WR   1S   128000   Left   \$15.26   35   34   1 structure   R29160   Structures   NorthMain134   WR   1S   128000   Left   \$14.92   36   35   1 structure   R29160   Structures   North   |                |              |                                       |              |             |             |           |          |                                       |
| R28799   Structures   NorthMain134   IWR   1S   98000   Left   \$19.00   32   31   1 structure   R28791   Structures   NorthMain134   IWR   1S   98000   Left   \$68.84   28   27   1 structure   R28793   Structures   NorthMain134   IWR   1S   124000   Left   \$0.50   36   35   1 structure   R28824   Structures   NorthMain134   IWR   1S   116000   Left   \$34.65   37   36   1 structure   R28824   Structures   NorthMain134   IWR   1S   116000   Left   \$34.65   37   36   1 structure   R28925   Structures   NorthMain134   IWR   1S   124000   Left   \$33.26   40   39   1 structure   R28925   Structures   NorthMain134   IWR   1S   129441   Left   \$29.70   36   35   1 structure   R289102   Structures   NorthMain134   IWR   1S   129441   Left   \$30.27   36   35   1 structure   R29120   Structures   NorthMain134   IWR   1S   128000   Left   \$14.37   34   33   1 structure   R29121   Structures   NorthMain134   IWR   1S   128000   Left   \$30.27   34   33   1 structure   R29123   Structures   NorthMain134   IWR   1S   128000   Left   \$30.27   34   33   1 structure   R29143   Structures   NorthMain134   IWR   1S   128000   Left   \$30.27   34   33   1 structure   R29143   Structures   NorthMain134   IWR   1S   128000   Left   \$30.27   34   33   1 structure   R29147   Structures   NorthMain134   IWR   1S   128000   Left   \$30.27   34   35   1 structure   R29147   Structures   NorthMain134   IWR   1S   128000   Left   \$30.44   36   35   1 structure   R29147   Structures   NorthMain134   IWR   1S   128000   Left   \$60.19   36   35   1 structure   R29152   Structures   NorthMain134   IWR   1S   128000   Left   \$60.19   36   35   1 structure   R29153   Structures   NorthMain134   IWR   1S   128000   Left   \$60.19   36   35   1 structure   R29154   Structures   NorthMain134   IWR   1S   128000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   IWR   1S   128000   Left   \$1.56   33   35   1 structure   R29158   Structures   NorthMain134   IWR   1S   128000   Left   \$1.50   36   35   1 structure   R29164   St   |                |              |                                       |              |             |             |           |          |                                       |
| R28791   Structures   NorthMain134   WR   15   98000   Left   \$68.84   28   27   1 structure   R28793   Structures   NorthMain134   WR   15   124000   Left   \$0.50   36   35   1 structure   R28824   Structures   NorthMain134   WR   15   116000   Left   \$3.465   37   36   1 structure   R28910   Structures   NorthMain134   WR   15   124000   Left   \$6.48   36   35   1 structure   R28910   Structures   NorthMain134   WR   15   153231   Left   \$33.26   40   39   1 structure   R289092   Structures   NorthMain134   WR   15   129441   Left   \$29.70   36   35   1 structure   R29102   Structures   NorthMain134   WR   15   129441   Left   \$30.27   36   35   1 structure   R29102   Structures   NorthMain134   WR   15   128000   Left   \$20.72   34   33   1 structure   R29121   Structures   NorthMain134   WR   15   128000   Left   \$30.27   36   35   1 structure   R29121   Structures   NorthMain134   WR   15   128000   Left   \$20.72   34   33   1 structure   R29123   Structures   NorthMain134   WR   15   128000   Left   \$35.45   41   40   1 structure   R29144   Structures   NorthMain134   WR   15   126000   Left   \$35.45   41   40   1 structure   R29147   Structures   NorthMain134   WR   15   126000   Left   \$29.15   41   40   1 structure   R29147   Structures   NorthMain134   WR   15   128000   Left   \$29.15   41   40   1 structure   R29147   Structures   NorthMain134   WR   15   128000   Left   \$29.64   33   32   1 structure   R29151   Structures   NorthMain134   WR   15   128000   Left   \$26.41   34   33   1 structure   R29152   Structures   NorthMain134   WR   15   128000   Left   \$26.41   34   33   1 structure   R29154   Structures   NorthMain134   WR   15   128000   Left   \$24.72   35   34   1 structure   R29154   Structures   NorthMain134   WR   15   128000   Left   \$29.81   36   35   1 structure   R29161   Structures   NorthMain134   WR   15   128000   Left   \$29.81   36   35   1 structure   R29161   Structures   NorthMain134   WR   15   128000   Left   \$48.18   36   35   1 structure   R29163   Structures   NorthMai   |                |              |                                       |              |             |             |           |          | 30 1 structure                        |
| R28793   Structures   NorthMain134   WR   S   124000   Left   \$0.50   36   35   1 structure   R28824   Structures   NorthMain134   WR   S   124000   Left   \$34.65   37   36   35   1 structure   R28925   Structures   NorthMain134   WR   S   124000   Left   \$33.28   40   39   1 structure   R28925   Structures   NorthMain134   WR   S   153231   Left   \$33.28   40   39   1 structure   R28920   Structures   NorthMain134   WR   S   153231   Left   \$33.27   36   35   1 structure   R29102   Structures   NorthMain134   WR   S   129441   Left   \$30.27   36   35   1 structure   R29120   Structures   NorthMain134   WR   S   129441   Left   \$30.27   36   35   1 structure   R29120   Structures   NorthMain134   WR   S   128000   Left   \$34.37   34   33   1 structure   R29123   Structures   NorthMain134   WR   S   128000   Left   \$35.45   41   40   1 structure   R29123   Structures   NorthMain134   WR   S   126000   Left   \$35.45   41   40   1 structure   R29143   Structures   NorthMain134   WR   S   147159   Left   \$35.45   41   40   1 structure   R29144   Structures   NorthMain134   WR   S   147159   Left   \$35.45   41   40   1 structure   R29147   Structures   NorthMain134   WR   S   147159   Left   \$30.27   36   35   1 structure   R29147   Structures   NorthMain134   WR   S   128000   Left   \$60.19   36   35   1 structure   R29152   Structures   NorthMain134   WR   S   128000   Left   \$50.19   36   35   1 structure   R29152   Structures   NorthMain134   WR   S   128000   Left   \$24.72   35   34   1 structure   R29150   Structures   NorthMain134   WR   S   128000   Left   \$34.70   36   35   1 structure   R29160   Structures   NorthMain134   WR   S   128000   Left   \$34.70   36   35   1 structure   R29160   Structures   NorthMain134   WR   S   128000   Left   \$34.70   36   35   1 structure   R29160   Structures   NorthMain134   WR   S   128000   Left   \$34.70   36   35   1 structure   R29167   Structures   NorthMain134   WR   S   128000   Left   \$49.08   36   35   1 structure   R29167   Structures   NorthMain134   WR   S     |                |              |                                       |              |             |             | \$19.00   | 32       | 31 1 structure                        |
| R28824   Structures   NorthMain134   WR   S   116000   Left   \$34.65   37   36   1 structure   R28910   Structures   NorthMain134   WR   S   124000   Left   \$64.8   36   35   1 structure   R28925   Structures   NorthMain134   WR   S   153231   Left   \$33.26   40   39   1 structure   R29092   Structures   NorthMain134   WR   S   129441   Left   \$29.70   36   35   1 structure   R29102   Structures   NorthMain134   WR   S   129441   Left   \$29.70   36   35   1 structure   R29120   Structures   NorthMain134   WR   S   128000   Left   \$30.27   36   35   1 structure   R29121   Structures   NorthMain134   WR   S   128000   Left   \$20.72   34   33   1 structure   R29121   Structures   NorthMain134   WR   S   128000   Left   \$20.72   34   33   1 structure   R29143   Structures   NorthMain134   WR   S   128000   Left   \$35.45   41   40   1 structure   R29143   Structures   NorthMain134   WR   S   126000   Left   \$35.45   41   40   1 structure   R29144   Structures   NorthMain134   WR   S   126000   Left   \$35.45   41   40   1 structure   R29144   Structures   NorthMain134   WR   S   126000   Left   \$20.15   41   40   1 structure   R29147   Structures   NorthMain134   WR   S   126000   Left   \$26.41   34   33   1 structure   R29151   Structures   NorthMain134   WR   S   128000   Left   \$26.41   34   33   1 structure   R29152   Structures   NorthMain134   WR   S   128000   Left   \$26.41   34   33   1 structure   R29154   Structures   NorthMain134   WR   S   128000   Left   \$24.72   35   34   1 structure   R29154   Structures   NorthMain134   WR   S   128000   Left   \$1.51   36   35   1 structure   R29154   Structures   NorthMain134   WR   S   128000   Left   \$1.788   34   33   1 structure   R29164   Structures   NorthMain134   WR   S   128000   Left   \$1.788   36   35   1 structure   R29164   Structures   NorthMain134   WR   S   128000   Left   \$24.72   35   34   1 structure   R29165   Structures   NorthMain134   WR   S   128000   Left   \$24.72   35   36   35   1 structure   R29165   Structures   NorthMain134   WR   S      |                |              |                                       |              |             |             | \$68.84   | 28       | 27 1 structure                        |
| R28824         Structures         NorthMain134         IWR 1S         116000 Left         \$3.4.65         37         36   structure           R28910         Structures         NorthMain134         IWR 1S         124000 Left         \$6.48         36         35   structure           R28925         Structures         NorthMain134         IWR 1S         153231 Left         \$33.26         40         39   structure           R29092         Structures         NorthMain134         IWR 1S         129441 Left         \$29.70         36         35   structure           R29102         Structures         NorthMain134         IWR 1S         129441 Left         \$29.70         36         35   structure           R29120         Structures         NorthMain134         IWR 1S         128000 Left         \$14.37         34         33   structure           R29121         Structures         NorthMain134         IWR 1S         128000 Left         \$20.72         34         33   structure           R29143         Structures         NorthMain134         IWR 1S         126000 Left         \$17.41         36         35   structure           R29147         Structures         NorthMain134         IWR 1S         136000 Left         \$6.26         33         32  |                |              |                                       |              |             |             | \$0.50    | 36       | 35 1 structure                        |
| R28910         Structures         NorthMain134         IWR         1S         124000 Left         \$6.48         36         35   structure           R28925         Structures         NorthMain134         IWR         1S         153231 Left         \$33.28         40         39   structure           R29102         Structures         NorthMain134         IWR         1S         129441 Left         \$29.70         36         35   structure           R29120         Structures         NorthMain134         IWR         1S         129441 Left         \$30.27         36         35   structure           R29121         Structures         NorthMain134         IWR         1S         128000 Left         \$14.37         34         33   structure           R29123         Structures         NorthMain134         IWR         1S         128000 Left         \$35.45         41         40   structure           R29143         Structures         NorthMain134         IWR         1S         126000 Left         \$35.45         41         40   structure           R29144         Structures         NorthMain134         IWR         1S         126000 Left         \$50.19         36         35   structure           R29151         Structures  |                | Structures   | NorthMain134                          |              |             |             | \$34.65   | 37       |                                       |
| R28925         Structures         NorthMain134         IWR 1S         153231   Left         \$33.26         40         39 1 structure           R29002         Structures         NorthMain134         IWR 1S         129441   Left         \$29.70         36         35 1 structure           R29120         Structures         NorthMain134         IWR 1S         129401   Left         \$30.27         36         35 1 structure           R29120         Structures         NorthMain134         IWR 1S         128000   Left         \$14.37         34         33 1 structure           R29123         Structures         NorthMain134         IWR 1S         128000   Left         \$20.72         34         33 1 structure           R29143         Structures         NorthMain134         IWR 1S         126000   Left         \$17.41         36         35 1 structure           R29143         Structures         NorthMain134         IWR 1S         147159   Left         \$20.55         41         40 1 structure           R29147         Structures         NorthMain134         IWR 1S         128000   Left         \$60.19         36         35 1 structure           R29151         Structures         NorthMain134         IWR 1S         128000   Left         \$15.26         33 <td>R28910</td> <td>Structures</td> <td>NorthMain134</td> <td></td> <td>124000</td> <td>Left</td> <td>\$6.48</td> <td>36</td> <td></td>  | R28910         | Structures   | NorthMain134                          |              | 124000      | Left        | \$6.48    | 36       |                                       |
| R29092         Structures         NorthMain134         IWR 1S         129441 Left         \$29.70         36         35   structure           R29102         Structures         NorthMain134         IWR 1S         129441 Left         \$30.27         36         35   structure           R29120         Structures         NorthMain134         IWR 1S         128000 Left         \$14.37         34         33   structure           R29121         Structures         NorthMain134         IWR 1S         128000 Left         \$20.72         34         33   structure           R29143         Structures         NorthMain134         IWR 1S         147159 Left         \$35.45         41         40   structure           R29143         Structures         NorthMain134         IWR 1S         147159 Left         \$29.15         41         40   structure           R29147         Structures         NorthMain134         IWR 1S         147159 Left         \$20.15         41         40   structure           R29151         Structures         NorthMain134         IWR 1S         128000 Left         \$12.66         33         32   structure           R29152         Structures         NorthMain134         IWR 1S         128000 Left         \$12.64         34         33   | R28925         | Structures   | NorthMain134                          | IWR_1S       | 153231      | Left        | \$33.26   | 40       |                                       |
| R29102         Structures         NorthMain134         IWR 1S         129441 Left         \$30.27         36         35 1 structure           R29120         Structures         NorthMain134         IWR 1S         128000 Left         \$20.72         34         33 1 structure           R29121         Structures         NorthMain134         IWR 1S         128000 Left         \$20.72         34         33 1 structure           R29143         Structures         NorthMain134         IWR 1S         147159 Left         \$35.45         41         40 1 structure           R29143         Structures         NorthMain134         IWR 1S         147159 Left         \$39.15         411         40 1 structure           R29147         Structures         NorthMain134         IWR 1S         147159 Left         \$29.15         41         40 1 structure           R29151         Structures         NorthMain134         IWR 1S         128000 Left         \$15.26         33         32 1 structure           R29153         Structures         NorthMain134         IWR 1S         128000 Left         \$72.29         35         34 1 structure           R29153         Structures         NorthMain134         IWR 1S         128000 Left         \$72.29         35         34  | R29092         | Structures   | NorthMain134                          | IWR_1S       | 129441      | Left        | \$29.70   | 36       |                                       |
| R29120  | R29102         | Structures   | NorthMain134                          | IWR_1S       | 129441      | Left        |           |          |                                       |
| R29121   Structures   NorthMain134   WR   1S   128000   Left   \$20.72   34   33   1 structure   R29123   Structures   NorthMain134   WR   1S   147159   Left   \$35.45   41   40   1 structure   R29144   Structures   NorthMain134   WR   1S   126000   Left   \$17.41   36   35   1 structure   R29144   Structures   NorthMain134   WR   1S   147159   Left   \$29.15   41   40   1 structure   R29147   Structures   NorthMain134   WR   1S   136000   Left   \$60.19   36   35   1 structure   R29151   Structures   NorthMain134   WR   1S   128000   Left   \$15.26   33   32   1 structure   R29152   Structures   NorthMain134   WR   1S   128000   Left   \$15.26   33   32   1 structure   R29153   Structures   NorthMain134   WR   1S   128000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   WR   1S   128000   Left   \$24.72   35   34   1 structure   R29154   Structures   NorthMain134   WR   1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   WR   1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   WR   1S   128000   Left   \$1.51   36   35   1 structure   R29161   Structures   NorthMain134   WR   1S   126000   Left   \$1.51   36   35   1 structure   R29165   Structures   NorthMain134   WR   1S   126000   Left   \$29.81   36   35   1 structure   R29165   Structures   NorthMain134   WR   1S   128000   Left   \$34.92   36   35   1 structure   R29168   Structures   NorthMain134   WR   1S   128000   Left   \$44.90   36   35   1 structure   R29167   Structures   NorthMain134   WR   1S   128000   Left   \$48.18   36   35   1 structure   R29168   Structures   NorthMain134   WR   1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   WR   1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   WR   1S   128000   Left   \$48.18   36   35   1 structure   R29128   Structures   NorthMain134   WR   1S   128000   Left   \$48.18   36   35   1 structure   R29226   Structures   NorthMain1   | R29120         | Structures   | NorthMain134                          | IWR 1S       | 128000      | Left        |           |          |                                       |
| R29123   Structures   NorthMain134   WR 1S   147159   Left   \$35.45   41   40   1 structure   R29143   Structures   NorthMain134   WR 1S   126000   Left   \$17.41   36   35   1 structure   R29144   Structures   NorthMain134   WR 1S   136000   Left   \$29.15   41   40   1 structure   R29147   Structures   NorthMain134   WR 1S   136000   Left   \$20.01   36   35   1 structure   R29151   Structures   NorthMain134   WR 1S   128000   Left   \$15.26   33   32   1 structure   R29152   Structures   NorthMain134   WR 1S   128000   Left   \$26.41   34   33   1 structure   R29152   Structures   NorthMain134   WR 1S   128000   Left   \$22.29   35   34   1 structure   R29154   Structures   NorthMain134   WR 1S   128000   Left   \$24.72   35   34   1 structure   R29158   Structures   NorthMain134   WR 1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   WR 1S   126000   Left   \$1.51   36   35   1 structure   R29161   Structures   NorthMain134   WR 1S   126000   Left   \$1.51   36   35   1 structure   R29164   Structures   NorthMain134   WR 1S   126000   Left   \$1.98   36   35   1 structure   R29165   Structures   NorthMain134   WR 1S   126000   Left   \$24.43   36   35   1 structure   R29168   Structures   NorthMain134   WR 1S   128000   Left   \$49.08   36   35   1 structure   R29168   Structures   NorthMain134   WR 1S   128000   Left   \$49.08   36   35   1 structure   R29168   Structures   NorthMain134   WR 1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   WR 1S   128000   Left   \$49.08   36   35   1 structure   R29188   Structures   NorthMain134   WR 1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   WR 1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   WR 1S   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   WR 1S   128000   Left   \$48.18   36   35   1 structure   R29215   Structures   NorthMain134   WR 1S   128000   Left   \$48.18   36    | R29121         | Structures   | NorthMain134                          | IWR 1S       | 128000      | Left        |           |          |                                       |
| R29143   Structures   NorthMain134   IWR   1S   126000   Left   \$17.41   36   35   1 structure   R29144   Structures   NorthMain134   IWR   1S   147159   Left   \$29.15   41   40   1 structure   R29147   Structures   NorthMain134   IWR   1S   136000   Left   \$60.19   36   35   1 structure   R29151   Structures   NorthMain134   IWR   1S   128000   Left   \$15.26   33   32   1 structure   R29152   Structures   NorthMain134   IWR   1S   128000   Left   \$26.41   34   33   1 structure   R29153   Structures   NorthMain134   IWR   1S   128000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   IWR   1S   128000   Left   \$72.29   35   34   1 structure   R29158   Structures   NorthMain134   IWR   1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   IWR   1S   126000   Left   \$1.51   36   35   1 structure   R29161   Structures   NorthMain134   IWR   1S   126000   Left   \$1.51   36   35   1 structure   R29164   Structures   NorthMain134   IWR   1S   126000   Left   \$1.49   36   35   1 structure   R29164   Structures   NorthMain134   IWR   1S   126000   Left   \$29.81   36   35   1 structure   R29165   Structures   NorthMain134   IWR   1S   126000   Left   \$41.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR   1S   128000   Left   \$44.33   36   35   1 structure   R29168   Structures   NorthMain134   IWR   1S   128000   Left   \$49.08   36   35   1 structure   R29168   Structures   NorthMain134   IWR   1S   128000   Left   \$40.08   36   35   1 structure   R29173   Structures   NorthMain134   IWR   1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR   1S   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   IWR   1S   128000   Left   \$48.18   36   35   1 structure   R29121   Structures   NorthMain134   IWR   1S   128000   Left   \$48.18   36   35   1 structure   R29223   Structures   NorthMain134   IWR   1S   128000   Left   \$49.08   36   35   1 structure   R29223   St   |                |              |                                       |              |             |             |           |          |                                       |
| R29144   Structures   NorthMain134   IWR 1S   147159   Left   \$29.15   41   40   1 structure   R29147   Structures   NorthMain134   IWR 1S   136000   Left   \$60.19   36   35   1 structure   R29151   Structures   NorthMain134   IWR 1S   128000   Left   \$15.26   33   32   1 structure   R29152   Structures   NorthMain134   IWR 1S   128000   Left   \$72.29   35   34   1 structure   R29153   Structures   NorthMain134   IWR 1S   128000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   IWR 1S   128000   Left   \$72.29   35   34   1 structure   R29158   Structures   NorthMain134   IWR 1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   IWR 1S   126000   Left   \$1.51   36   35   1 structure   R29161   Structures   NorthMain134   IWR 1S   126000   Left   \$1.51   36   35   1 structure   R29161   Structures   NorthMain134   IWR 1S   126000   Left   \$1.58   36   35   1 structure   R29164   Structures   NorthMain134   IWR 1S   126000   Left   \$1.4.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR 1S   126000   Left   \$1.4.92   36   35   1 structure   R29167   Structures   NorthMain134   IWR 1S   128000   Left   \$1.4.92   36   35   1 structure   R29168   Structures   NorthMain134   IWR 1S   128000   Left   \$49.08   36   35   1 structure   R29168   Structures   NorthMain134   IWR 1S   128000   Left   \$49.08   36   35   1 structure   R29188   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29215   Structures   NorthMain134   IWR 1S   128000   Left   \$5.90   36   35   1 structure   R29223   Structures   NorthMain134   IWR 1S   12800   |                |              |                                       |              |             |             |           |          |                                       |
| R29147   Structures   NorthMain134   IWR_1S   136000   Left   \$60.19   36   35   1 structure   R29151   Structures   NorthMain134   IWR_1S   128000   Left   \$15.26   33   32   1 structure   R29152   Structures   NorthMain134   IWR_1S   128000   Left   \$15.26   33   32   1 structure   R29153   Structures   NorthMain134   IWR_1S   128000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   IWR_1S   128000   Left   \$24.72   35   34   1 structure   R29158   Structures   NorthMain134   IWR_1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   IWR_1S   128000   Left   \$17.88   34   33   1 structure   R29160   Structures   NorthMain134   IWR_1S   128000   Left   \$19.81   36   35   1 structure   R29164   Structures   NorthMain134   IWR_1S   126000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR_1S   128000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR_1S   128000   Left   \$24.43   36   35   1 structure   R29168   Structures   NorthMain134   IWR_1S   128000   Left   \$24.43   36   35   1 structure   R29168   Structures   NorthMain134   IWR_1S   128000   Left   \$49.08   36   35   1 structure   R29173   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29189   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29220   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29223   Structures   NorthMain134   IWR_1S   1280   |                |              |                                       |              |             |             |           |          |                                       |
| R29151   Structures   NorthMain134   IWR   IS   128000   Left   \$15.26   33   32   1 structure   R29152   Structures   NorthMain134   IWR   IS   128000   Left   \$26.41   34   33   1 structure   R29153   Structures   NorthMain134   IWR   IS   134000   Left   \$24.72   35   34   1 structure   R29154   Structures   NorthMain134   IWR   IS   128000   Left   \$24.72   35   34   1 structure   R29158   Structures   NorthMain134   IWR   IS   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   IWR   IS   129441   Left   \$17.88   34   33   1 structure   R29161   Structures   NorthMain134   IWR   IS   129441   Left   \$17.88   34   33   1 structure   R29161   Structures   NorthMain134   IWR   IS   126000   Left   \$29.81   36   35   1 structure   R29165   Structures   NorthMain134   IWR   IS   126000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR   IS   128000   Left   \$54.70   36   35   1 structure   R29167   Structures   NorthMain134   IWR   IS   128000   Left   \$49.08   36   35   1 structure   R29168   Structures   NorthMain134   IWR   IS   128000   Left   \$49.08   36   35   1 structure   R29173   Structures   NorthMain134   IWR   IS   126000   Left   \$49.08   36   35   1 structure   R29188   Structures   NorthMain134   IWR   IS   126000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR   IS   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   IWR   IS   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR   IS   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR   IS   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR   IS   128000   Left   \$48.70   36   35   1 structure   R29220   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   35   1 structure   R29223   Structures   NorthMain134   IWR   IS   128000   Left   \$10.13   36   35   1 structure   R29226     |                |              |                                       |              |             |             |           |          |                                       |
| R29152   Structures   NorthMain134   WR_1S   128000   Left   \$26.41   34   33   1 structure   R29153   Structures   NorthMain134   WR_1S   134000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   WR_1S   128000   Left   \$24.72   35   34   1 structure   R29158   Structures   NorthMain134   WR_1S   128000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   WR_1S   129441   Left   \$17.88   34   33   1 structure   R29161   Structures   NorthMain134   WR_1S   126000   Left   \$29.81   36   35   1 structure   R29164   Structures   NorthMain134   WR_1S   126000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   WR_1S   126000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   WR_1S   129441   Left   \$54.70   36   35   1 structure   R29168   Structures   NorthMain134   WR_1S   128000   Left   \$24.43   36   35   1 structure   R29168   Structures   NorthMain134   WR_1S   128000   Left   \$49.08   36   35   1 structure   R29173   Structures   NorthMain134   WR_1S   128000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   WR_1S   128000   Left   \$48.18   36   35   1 structure   R29189   Structures   NorthMain134   WR_1S   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   WR_1S   128000   Left   \$48.18   36   35   1 structure   R29215   Structures   NorthMain134   WR_1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   WR_1S   128000   Left   \$49.08   36   35   1 structure   R29218   Structures   NorthMain134   WR_1S   128000   Left   \$40.00   Left   \$40.00   S0   S0   S0   S0   S0   S0   S0  |                |              |                                       |              |             |             |           |          |                                       |
| R29153   Structures   NorthMain134   IWR 1S   134000   Left   \$72.29   35   34   1 structure   R29154   Structures   NorthMain134   IWR 1S   128000   Left   \$24.72   35   34   1 structure   R29158   Structures   NorthMain134   IWR 1S   126000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   IWR 1S   126000   Left   \$1.51   36   35   1 structure   R29161   Structures   NorthMain134   IWR 1S   129441   Left   \$17.88   34   33   1 structure   R29161   Structures   NorthMain134   IWR 1S   126000   Left   \$29.81   36   35   1 structure   R29164   Structures   NorthMain134   IWR 1S   126000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR 1S   129441   Left   \$54.70   36   35   1 structure   R29167   Structures   NorthMain134   IWR 1S   128000   Left   \$49.08   36   35   1 structure   R29168   Structures   NorthMain134   IWR 1S   128000   Left   \$49.08   36   35   1 structure   R29173   Structures   NorthMain134   IWR 1S   126000   Left   \$49.08   36   35   1 structure   R29188   Structures   NorthMain134   IWR 1S   126000   Left   \$48.18   36   35   1 structure   R29198   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29195   Structures   NorthMain134   IWR 1S   128000   Left   \$48.18   36   35   1 structure   R29215   Structures   NorthMain134   IWR 1S   128000   Left   \$8.71   36   35   1 structure   R29218   Structures   NorthMain134   IWR 1S   128000   Left   \$8.71   36   35   1 structure   R29220   Structures   NorthMain134   IWR 1S   128000   Left   \$10.75   36   35   1 structure   R29222   Structures   NorthMain134   IWR 1S   128000   Left   \$10.75   36   35   1 structure   R29222   Structures   NorthMain134   IWR 1S   128000   Left   \$10.13   36   35   1 structure   R29222   Structures   NorthMain134   IWR 1S   128000   Left   \$10.13   36   35   1 structure   R29222   Structures   NorthMain134   IWR 1S   128000   Left   \$10.13   36   35   1 structure   R29222   Structures   NorthMain134   IWR 1S   128000    |                |              |                                       |              |             |             |           |          |                                       |
| R29154         Structures         NorthMain134         IWR_1S         128000         Left         \$24.72         35         34         1 structure           R29158         Structures         NorthMain134         IWR_1S         126000         Left         \$1.51         36         35         1 structure           R29160         Structures         NorthMain134         IWR_1S         129441         Left         \$17.88         34         33         1 structure           R29161         Structures         NorthMain134         IWR_1S         126000         Left         \$14.92         36         35         1 structure           R29164         Structures         NorthMain134         IWR_1S         126000         Left         \$14.92         36         35         1 structure           R29165         Structures         NorthMain134         IWR_1S         128000         Left         \$54.70         36         35         1 structure           R29167         Structures         NorthMain134         IWR_1S         128000         Left         \$49.08         36         35         1 structure           R29168         Structures         NorthMain134         IWR_1S         126000         Left         \$49.08  |                |              |                                       |              |             |             |           |          | <del></del>                           |
| R29158   Structures   NorthMain134   IWR_1S   126000   Left   \$1.51   36   35   1 structure   R29160   Structures   NorthMain134   IWR_1S   129441   Left   \$17.88   34   33   1 structure   R29161   Structures   NorthMain134   IWR_1S   126000   Left   \$29.81   36   35   1 structure   R29164   Structures   NorthMain134   IWR_1S   126000   Left   \$14.92   36   35   1 structure   R29165   Structures   NorthMain134   IWR_1S   126000   Left   \$54.70   36   35   1 structure   R29167   Structures   NorthMain134   IWR_1S   128000   Left   \$24.43   36   35   1 structure   R29168   Structures   NorthMain134   IWR_1S   128000   Left   \$49.08   36   35   1 structure   R29173   Structures   NorthMain134   IWR_1S   126000   Left   \$49.08   36   35   1 structure   R29188   Structures   NorthMain134   IWR_1S   126000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29218   Structures   NorthMain134   IWR_1S   128000   Left   \$8.71   36   35   1 structure   R29220   Structures   NorthMain134   IWR_1S   128000   Left   \$16.75   36   35   1 structure   R29220   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29223   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29226   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29226   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29226   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   12800   |                |              |                                       |              |             |             |           |          |                                       |
| R29160         Structures         NorthMain134         IWR_1S         129441         Left         \$17.88         34         33   1 structure           R29161         Structures         NorthMain134         IWR_1S         126000         Left         \$29.81         36         35   1 structure           R29164         Structures         NorthMain134         IWR_1S         126000         Left         \$14.92         36         35   1 structure           R29165         Structures         NorthMain134         IWR_1S         128441         Left         \$54.70         36         35   1 structure           R29167         Structures         NorthMain134         IWR_1S         128000         Left         \$49.08         36         35   1 structure           R29168         Structures         NorthMain134         IWR_1S         128000         Left         \$49.08         36         35   1 structure           R29173         Structures         NorthMain134         IWR_1S         126000         Left         \$48.18         36         35   1 structure           R29188         Structures         NorthMain134         IWR_1S         128000         Left         \$48.18         36         35   1 structure           R29188         Structu  |                |              |                                       |              |             |             |           |          |                                       |
| R29161         Structures         NorthMain134         IWR_1S         126000         Left         \$29.81         36         35   structure           R29164         Structures         NorthMain134         IWR_1S         126000         Left         \$14.92         36         35   structure           R29165         Structures         NorthMain134         IWR_1S         129441         Left         \$54.70         36         35   structure           R29167         Structures         NorthMain134         IWR_1S         128000         Left         \$24.43         36         35   structure           R29168         Structures         NorthMain134         IWR_1S         128000         Left         \$49.08         36         35   structure           R29173         Structures         NorthMain134         IWR_1S         126000         Left         \$49.08         36         35   structure           R29188         Structures         NorthMain134         IWR_1S         126000         Left         \$48.18         36         35   structure           R29192         Structures         NorthMain134         IWR_1S         128000         Left         \$48.18         36         35   structure           R29218         Structures   |                |              |                                       |              |             |             |           |          |                                       |
| R29164         Structures         NorthMain134         IWR_1S         126000         Left         \$14.92         36         35 1 structure           R29165         Structures         NorthMain134         IWR_1S         129441 Left         \$54.70         36         35 1 structure           R29167         Structures         NorthMain134         IWR_1S         128000 Left         \$24.43         36         35 1 structure           R29168         Structures         NorthMain134         IWR_1S         128000 Left         \$49.08         36         35 1 structure           R29173         Structures         NorthMain134         IWR_1S         126000 Left         \$40.08         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         126000 Left         \$48.18         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         128000 Left         \$48.18         36         35 1 structure           R29192         Structures         NorthMain134         IWR_1S         128000 Left         \$22.08         36         35 1 structure           R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36   |                |              |                                       |              |             |             | 1         |          |                                       |
| R29165         Structures         NorthMain134         IWR_1S         129441 Left         \$54,70         36         35 1 structure           R29167         Structures         NorthMain134         IWR_1S         128000 Left         \$24.43         36         35 1 structure           R29168         Structures         NorthMain134         IWR_1S         128000 Left         \$49.08         36         35 1 structure           R29173         Structures         NorthMain134         IWR_1S         126000 Left         \$10.07         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         126000 Left         \$48.18         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         128000 Left         \$48.18         36         35 1 structure           R2918         Structures         NorthMain134         IWR_1S         128000 Left         \$22.08         36         35 1 structure           R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$8.71         36         35 1 structure           R292218         Structures         NorthMain134         IWR_1S         128000 Left         \$10.75         36         35 1  |                |              |                                       |              |             |             |           |          |                                       |
| R29167   Structures   NorthMain134   IWR_1S   128000   Left   \$24.43   36   35   1 structure   R29168   Structures   NorthMain134   IWR_1S   128000   Left   \$49.08   36   35   1 structure   R29173   Structures   NorthMain134   IWR_1S   126000   Left   \$10.07   36   35   1 structure   R29188   Structures   NorthMain134   IWR_1S   126000   Left   \$48.18   36   35   1 structure   R29188   Structures   NorthMain134   IWR_1S   128000   Left   \$48.18   36   35   1 structure   R29192   Structures   NorthMain134   IWR_1S   128000   Left   \$22.08   36   35   1 structure   R29215   Structures   NorthMain134   IWR_1S   128000   Left   \$8.71   36   35   1 structure   R292218   Structures   NorthMain134   IWR_1S   128000   Left   \$16.75   36   35   1 structure   R292220   Structures   NorthMain134   IWR_1S   128000   Left   \$5.90   36   35   1 structure   R29223   Structures   NorthMain134   IWR_1S   128000   Left   \$12.61   36   35   1 structure   R29223   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29225   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29226   Structures   NorthMain134   IWR_1S   128000   Left   \$10.13   36   35   1 structure   R29227   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29229   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29229   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29228   Structures   NorthMain134   IWR_1S   128000   Left   \$1.90   36   35   1 structure   R29236   Structures   NorthMain134   IWR_1S   128000   Le   |                |              | · · · · · · · · · · · · · · · · · · · |              |             |             | *******   |          |                                       |
| R29168         Structures         NorthMain134         IWR_1S         128000 Left         \$49.08         36         35 1 structure           R29173         Structures         NorthMain134         IWR_1S         126000 Left         \$10.07         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         126000 Left         \$48.18         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         128000 Left         \$48.18         36         35 1 structure           R29192         Structures         NorthMain134         IWR_1S         128000 Left         \$22.08         36         35 1 structure           R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$8.71         36         35 1 structure           R29218         Structures         NorthMain134         IWR_1S         128000 Left         \$16.75         36         35 1 structure           R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$12.61         36         35 1 structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1  |                |              |                                       |              |             |             |           |          |                                       |
| R29173         Structures         NorthMain134         IWR_1S         126000 Left         \$10.07         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         126000 Left         \$48.18         36         35 1 structure           R29188         Structures         NorthMain134         IWR_1S         128000 Left         \$48.18         36         35 1 structure           R29192         Structures         NorthMain134         IWR_1S         128000 Left         \$22.08         36         35 1 structure           R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$8.71         36         35 1 structure           R29218         Structures         NorthMain134         IWR_1S         128000 Left         \$16.75         36         35 1 structure           R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36         35 1 structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 s   |                |              |                                       | ·            |             |             |           |          |                                       |
| R29188         Structures         NorthMain134         IWR_1S         126000 Left         \$48.18         36         35   1 structure           R29188         Structures         NorthMain134         IWR_1S         128000 Left         \$48.18         36         35   1 structure           R29192         Structures         NorthMain134         IWR_1S         128000 Left         \$22.08         36         35   1 structure           R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$8.71         36         35   1 structure           R29218         Structures         NorthMain134         IWR_1S         128000 Left         \$16.75         36         35   1 structure           R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36         35   1 structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$12.61         36         35   1 structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35   1 structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36   |                |              |                                       |              |             |             |           |          | ·                                     |
| R29188         Structures         NorthMain134         IWR 1S         128000 Left         \$48.18         36         35 1 structure           R29192         Structures         NorthMain134         IWR 1S         128000 Left         \$22.08         36         35 1 structure           R29215         Structures         NorthMain134         IWR 1S         128000 Left         \$8.71         36         35 1 structure           R29218         Structures         NorthMain134         IWR 1S         128000 Left         \$16.75         36         35 1 structure           R29220         Structures         NorthMain134         IWR 1S         128000 Left         \$5.90         36         35 1 structure           R29223         Structures         NorthMain134         IWR 1S         128000 Left         \$12.61         36         35 1 structure           R29225         Structures         NorthMain134         IWR 1S         128000 Left         \$10.13         36         35 1 structure           R29226         Structures         NorthMain134         IWR 1S         128000 Left         \$6.74         36         35 1 structure           R29227         Structures         NorthMain134         IWR 1S         128000 Left         \$1.90         36         35 1 str   |                |              |                                       |              |             |             |           |          | ·                                     |
| R29192         Structures         NorthMain134         IWR_1S         128000 Left         \$22.08         36         35 1 structure           R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$8.71         36         35 1 structure           R29218         Structures         NorthMain134         IWR_1S         128000 Left         \$16.75         36         35 1 structure           R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36         35 1 structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$1.336         36         35 1 str   |                |              |                                       |              |             |             |           |          |                                       |
| R29215         Structures         NorthMain134         IWR_1S         128000 Left         \$8.71         36         35 1 structure           R29218         Structures         NorthMain134         IWR_1S         128000 Left         \$16.75         36         35 1 structure           R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36         35 1 structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$12.61         36         35 1 structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$6.74         36         35 1 structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 str   |                |              |                                       |              |             |             |           |          |                                       |
| R29218         Structures         NorthMain134         IWR_1S         128000 Left         \$16.75         36         35 I structure           R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36         35 I structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$12.61         36         35 I structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 I structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$6.74         36         35 I structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 I structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 I structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 I structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 I str   |                |              |                                       |              |             |             |           |          | <del></del>                           |
| R29220         Structures         NorthMain134         IWR_1S         128000 Left         \$5.90         36         35 1 structure           R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$12.61         36         35 1 structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$6.74         36         35 1 structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 stru   |                |              |                                       |              |             |             |           |          |                                       |
| R29223         Structures         NorthMain134         IWR_1S         128000 Left         \$12.61         36         35 1 structure           R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$6.74         36         35 1 structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure   |                |              |                                       |              |             |             |           |          |                                       |
| R29225         Structures         NorthMain134         IWR_1S         128000 Left         \$10.13         36         35 1 structure           R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$6.74         36         35 1 structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure   |                |              |                                       |              |             |             |           |          |                                       |
| R29226         Structures         NorthMain134         IWR_1S         128000 Left         \$6.74         36         35 1 structure           R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure   |                |              |                                       |              |             |             |           |          |                                       |
| R29227         Structures         NorthMain134         IWR_1S         128000 Left         \$1.90         36         35 1 structure           R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure  |                |              |                                       |              |             |             |           |          |                                       |
| R29228         Structures         NorthMain134         IWR_1S         128000 Left         \$13.36         36         35 1 structure           R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure   |                |              |                                       |              |             |             |           |          | · · · · · · · · · · · · · · · · · · · |
| R29229         Structures         NorthMain134         IWR_1S         128000 Left         \$2.57         36         35 1 structure           R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure   |                |              |                                       |              |             |             |           |          | 35 1 structure                        |
| R29236         Structures         NorthMain134         IWR_1S         128000 Left         \$19.83         36         35 1 structure           R29238         Structures         NorthMain134         IWR_1S         128000 Left         \$3.17         36         35 1 structure  |                |              |                                       |              |             |             | i         |          | 35 1 structure                        |
| R29238 Structures NorthMain134 IWR_1S 128000 Left \$3.17 36 35 1 structure  |                |              |                                       |              | <del></del> |             |           |          |                                       |
| R29238 Structures NorthMain134 IWR_1S 128000 Left \$3.17 36 35 1 structure  |                |              |                                       |              |             |             |           | 36       | 35 1 structure                        |
| R29239 Structures NorthMain134   IWR_1S   128000 Left   \$13.61   36   35 1 structure   |                | Structures   |                                       |              | 128000      | Left        | \$3.17    | 36       | 35 1 structure                        |
|   | R29239         | Structures I | NorthMain134                          | IWR_1S       | 128000      | Left        | \$13.61   | 36       | 35 1 structure                        |

| R29241   Structures   NorthMain134   WR   S   128000   Left   \$72.80   \$8   \$8   \$8   \$8   \$1   structure   R29242   Structures   NorthMain134   WR   S   128000   Left   \$9.32   36   35   structure   R29244   Structures   NorthMain134   WR   S   128000   Left   \$9.90   36   33   structure   R29247   Structures   NorthMain134   WR   S   128000   Left   \$9.90   36   33   structure   R29247   Structures   NorthMain134   WR   S   128000   Left   \$9.90   36   33   structure   R29247   Structures   NorthMain134   WR   S   128000   Left   \$9.45   36   35   structure   R29247   Structures   NorthMain134   WR   S   128000   Left   \$9.45   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$11.13   36   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.45   36   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.35   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.35   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.17   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.17   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.12   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.12   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.12   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.12   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.12   36   35   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.74   31   30   structure   R29256   Structures   NorthMain134   WR   S   128000   Left   \$3.75   36   35   structure   R29356   Structures   NorthMain134   WR   S   128000   Left   \$3.59   36   35   structure   R29356   Structures   NorthMain134   WR   S   128000   Left   \$3.59   36   35   struc | Struc Nam | eCat name  | Stream_name  | Occ. N | ame | Station  | Bank  | Strue Val | AÉ Chara Card | 01     |           |
|---|-----------|------------|--------------|--------|-----|----------|-------|-----------|---------------|--------|-----------|
| R29242   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.3.2   36   35   I structure   R29244   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.9.0   36   35   I structure   R29245   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.90   36   36   35   I structure   R29247   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.90   36   36   35   I structure   R29248   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.94   36   36   35   I structure   R29226   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.45   36   36   36   I structure   R29250   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.45   36   36   I structure   R29250   Structures   NorthMain134   IVIR   IS   128000   Left   \$3.48   36   36   I structure   R29260   Structures   NorthMain134   IVIR   IS   128000   Left   \$3.45   36   36   I structure   R29260   Structures   NorthMain134   IVIR   IS   128000   Left   \$3.55   36   36   I structure   R29263   Structures   NorthMain134   IVIR   IS   138000   Left   \$9.096   36   35   I structure   R29262   Structures   NorthMain134   IVIR   IS   138000   Left   \$9.096   36   35   I structure   R29262   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.74   31   36   35   I structure   R29262   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.74   31   36   35   I structure   R29262   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.74   31   36   35   I structure   R29262   Structures   NorthMain134   IVIR   IS   128000   Left   \$9.74   31   36   35   I structure   R29262   Structures   NorthMain134   IVIR   IS   138000   Left   \$9.74   31   36   35   I structure   R29264   Structures   NorthMain134   IVIR   IS   138000   Left   \$9.75   30   39   I structure   R29264   Structures   NorthMain134   IVIR   IS   138000   Left   \$9.75   30   39   I structure   R29265   Structures   NorthMain134   IVIR   IS   138000   Left   \$9.75   30   39   I structure   R29365   Structures   NorthMain134   IVIR   IS   128000        |           |            |              |        |     |          |       | Gruc_var  |               |        |           |
| R29244   Structures   NorthMain134   IWR   IS   128000   Left   39.90   36   35   Structures   R29247   Structures   NorthMain134   IWR   IS   128000   Left   39.90   36   35   Structures   R29248   Structures   NorthMain134   IWR   IS   128000   Left   39.45   36   36   35   Structures   R29248   Structures   NorthMain134   IWR   IS   128000   Left   39.45   36   36   35   Structures   R29248   Structures   NorthMain134   IWR   IS   128000   Left   30.20   36   36   35   Structures   R29258   Structures   NorthMain134   IWR   IS   128000   Left   33.48   36   35   Structures   R29258   Structures   NorthMain134   IWR   IS   128000   Left   33.48   36   35   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   33.55   36   35   Structures   R29260   Structures   NorthMain134   IWR   IS   138000   Left   33.55   36   35   Structures   R29260   Structures   NorthMain134   IWR   IS   138000   Left   33.90   36   35   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   33.90   36   35   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   35.74   31   30   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   35.74   31   30   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   35.74   31   30   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   35.74   31   30   Structures   R29260   Structures   NorthMain134   IWR   IS   134000   Left   36.72   40   39   Structures   R29260   Structures   NorthMain134   IWR   IS   134000   Left   36.72   40   39   Structures   R29260   Structures   NorthMain134   IWR   IS   134000   Left   36.72   40   39   Structures   R29260   Structures   NorthMain134   IWR   IS   134000   Left   36.72   40   39   Structures   R29260   Structures   NorthMain134   IWR   IS   132000   Left   36.72   40   39   Structures   R29260   Structures   NorthMain134   IWR   IS   128000   Left   37.63   36   35   Structures   R29260   Structures   NorthMain134                            |           |            |              |        |     |          |       |           |               |        |           |
| R29245   Structures   NorthMain134   IWR   IS   128000   Left   39.96   36   35   I structure   R29248   Structures   NorthMain134   IWR   IS   128000   Left   39.45   36   35   I structure   R29250   Structures   NorthMain134   IWR   IS   128000   Left   31.13   36   36   35   I structure   R29250   Structures   NorthMain134   IWR   IS   128000   Left   33.48   36   35   I structure   R29260   Structures   NorthMain134   IWR   IS   128000   Left   33.48   36   35   I structure   R29260   Structures   NorthMain134   IWR   IS   128000   Left   33.48   36   35   I structure   R29260   Structures   NorthMain134   IWR   IS   128000   Left   33.55   36   35   I structure   R29261   Structures   NorthMain134   IWR   IS   128000   Left   33.55   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   33.12   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   33.12   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   33.12   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   36.83   36   36   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   36.83   36   36   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   36.83   36   36   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   36.87   30   29   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   S6.87   40   39   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   S6.87   40   39   I structure   R29362   Structures   NorthMain134   IWR   IS   128000   Left   S7.93   36   35   I structure   R29363   Structures   NorthMain134   IWR   IS   128000   Left   S7.93   36   35   I structure   R29365   Structures   NorthMain134   IWR   IS   128000   Left   S7.93   36   35   I structure   R29365   Structures   NorthMain134   IWR   IS   128000   Left   S7.93   36   35   I structure   R29365   Structures   N                            |           |            |              |        |     |          |       |           |               |        |           |
| R29247   Structures   NorthMain134   IVIR   15   120000   Left   \$3.48   36   36   35   1 structure   R29250   Structures   NorthMain134   IVIR   15   128000   Left   \$3.48   36   36   35   1 structure   R29250   Structures   NorthMain134   IVIR   15   128000   Left   \$3.48   36   36   35   1 structure   R29250   Structures   NorthMain134   IVIR   15   128000   Left   \$3.48   36   36   35   1 structure   R29250   Structures   NorthMain134   IVIR   15   128000   Left   \$3.55   36   36   35   1 structure   R29261   Structures   NorthMain134   IVIR   15   128000   Left   \$3.55   36   36   35   1 structure   R29261   Structures   NorthMain134   IVIR   15   128000   Left   \$3.55   36   36   35   1 structure   R29262   Structures   NorthMain134   IVIR   15   128000   Left   \$3.96   36   35   1 structure   R29262   Structures   NorthMain134   IVIR   15   128000   Left   \$3.974   31   30   1 structure   R29262   Structures   NorthMain134   IVIR   15   128000   Left   \$5.83   36   35   1 structure   R29262   Structures   NorthMain134   IVIR   15   128000   Left   \$5.83   36   35   1 structure   R29262   Structures   NorthMain134   IVIR   15   128000   Left   \$5.874   31   30   1 structure   R29262   Structures   NorthMain134   IVIR   15   136000   Left   \$5.872   30   35   1 structure   R29262   Structures   NorthMain134   IVIR   15   136000   Left   \$5.872   30   29   1 structure   R29262   Structures   NorthMain134   IVIR   15   136000   Left   \$5.872   30   29   1 structure   R29300   Structures   NorthMain134   IVIR   15   136000   Left   \$5.872   30   29   1 structure   R29300   Structures   NorthMain134   IVIR   15   136000   Left   \$5.93   34   33   1 structure   R29301   Structures   NorthMain134   IVIR   15   128000   Left   \$5.03   36   35   1 structure   R29301   Structures   NorthMain134   IVIR   15   128000   Left   \$1.2.36   36   35   1 structure   R29303   Structures   NorthMain134   IVIR   15   128000   Left   \$1.5.0   36   35   1 structure   R29303   Structures   NorthMain134   IVIR   15   128000   Le        |           |            |              |        |     |          |       |           |               |        |           |
| R29248   Structures   NorthMain134   IWR   S   128000   Left   \$11.15   36   35   Structures   R29250   Structures   NorthMain134   IWR   IS   128000   Left   \$3.20   36   35   I structure   R29250   Structures   NorthMain134   IWR   IS   128000   Left   \$3.48   36   35   I structure   R29260   Structures   NorthMain134   IWR   IS   128000   Left   \$3.55   36   35   I structure   R29261   Structures   NorthMain134   IWR   IS   128000   Left   \$3.55   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   138000   Left   \$3.90   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   138000   Left   \$3.12   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   \$3.12   36   35   I structure   R29272   Structures   NorthMain134   IWR   IS   128000   Left   \$5.63   36   35   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   \$5.74   31   30   I structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   \$5.75   30   35   I structure   R29292   Structures   NorthMain134   IWR   IS   14000   Left   \$10.51   36   35   I structure   R29293   Structures   NorthMain134   IWR   IS   14000   Left   \$10.51   36   35   I structure   R29294   Structures   NorthMain134   IWR   IS   138000   Left   \$10.51   36   35   I structure   R29295   Structures   NorthMain134   IWR   IS   138000   Left   \$10.51   36   35   I structure   R29300   Structures   NorthMain134   IWR   IS   138000   Left   \$10.16   36   35   I structure   R29315   Structures   NorthMain134   IWR   IS   128000   Left   \$10.16   36   35   I structure   R29315   Structures   NorthMain134   IWR   IS   128000   Left   \$10.16   36   35   I structure   R29332   Structures   NorthMain134   IWR   IS   128000   Left   \$10.30   36   35   I structure   R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$1.780   36   35   I structure   R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   I structure   R29345   Structures          |           |            |              |        |     |          |       |           |               |        |           |
| R29250   Structures   NorthMain134   IWR   S   128000   Left   \$3.48   36   35   1 structure   R29256   Structures   NorthMain134   IWR   IS   128000   Left   \$3.48   36   35   1 structure   R29260   Structures   NorthMain134   IWR   IS   128000   Left   \$3.55   36   35   1 structure   R29261   Structures   NorthMain134   IWR   IS   138000   Left   \$13.70   36   35   1 structure   R29258   Structures   NorthMain134   IWR   IS   138000   Left   \$3.12   36   35   1 structure   R29266   Structures   NorthMain134   IWR   IS   128000   Left   \$3.12   36   35   1 structure   R29268   Structures   NorthMain134   IWR   IS   128000   Left   \$3.12   36   35   1 structure   R29268   Structures   NorthMain134   IWR   IS   128000   Left   \$5.63   36   35   1 structure   R29262   Structures   NorthMain134   IWR   IS   128000   Left   \$9.74   31   30   1 structure   R29284   Structures   NorthMain134   IWR   IS   134000   Left   \$9.74   31   30   1 structure   R29294   Structures   NorthMain134   IWR   IS   134000   Left   \$68.72   40   39   1 structure   R29294   Structures   NorthMain134   IWR   IS   88000   Right   \$22.75   30   29   1 structure   R29300   Structures   NorthMain134   IWR   IS   136000   Left   \$3.59   30   39   1 structure   R29315   Structures   NorthMain134   IWR   IS   122000   Left   \$3.59   34   33   1 structure   R29315   Structures   NorthMain134   IWR   IS   122000   Left   \$3.59   34   33   1 structure   R29326   Structures   NorthMain134   IWR   IS   122000   Left   \$3.59   34   33   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$12.28   40   39   1 structure   R29336   Structures         |           |            |              |        |     |          |       |           |               |        |           |
| R29266   Structures   NorthMain134   IWR   S   128000   Left   \$3.48   36   35   1 structure   R29280   Structures   NorthMain134   IWR   IS   128000   Left   \$3.55   36   35   1 structure   R29281   Structures   NorthMain134   IWR   IS   128000   Left   \$3.95   36   35   1 structure   R29282   Structures   NorthMain134   IWR   IS   138000   Left   \$3.95   36   35   1 structure   R29282   Structures   NorthMain134   IWR   IS   138000   Left   \$3.96   36   35   1 structure   R29272   Structures   NorthMain134   IWR   IS   128000   Left   \$5.83   36   35   1 structure   R29272   Structures   NorthMain134   IWR   IS   128000   Left   \$5.74   31   30   35   1 structure   R29282   Structures   NorthMain134   IWR   IS   128000   Left   \$5.74   31   30   35   1 structure   R29292   Structures   NorthMain134   IWR   IS   140000   Left   \$68.72   40   39   1 structure   R29292   Structures   NorthMain134   IWR   IS   140000   Left   \$68.72   40   39   1 structure   R29292   Structures   NorthMain134   IWR   IS   138000   Left   \$68.72   40   39   1 structure   R29300   Structures   NorthMain134   IWR   IS   138000   Left   \$10.16   36   35   1 structure   R29315   Structures   NorthMain134   IWR   IS   138000   Left   \$10.16   36   35   1 structure   R29315   Structures   NorthMain134   IWR   IS   128000   Left   \$15.03   36   35   1 structure   R29332   Structures   NorthMain134   IWR   IS   128000   Left   \$17.80   36   35   1 structure   R29332   Structures   NorthMain134   IWR   IS   128000   Left   \$17.80   36   35   1 structure   R29335   Structures   NorthMain134   IWR   IS   128000   Left   \$17.80   36   35   1 structure   R29335   Structures   NorthMain134   IWR   IS   128000   Left   \$15.13   36   35   1 structure   R29335   Structures   NorthMain134   IWR   IS   128000   Left   \$15.50   36   35   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29336   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29336         |           |            |              |        |     |          |       |           |               |        |           |
| R29260   Structures   NorthMain134   WR   S   128000   Left   \$3.55   36   35   Structure   R29261   Structures   NorthMain134   WR   S   138000   Left   \$3.55   36   35   Structure   R29263   Structures   NorthMain134   WR   S   138000   Left   \$3.12   36   35   Structure   R29266   Structures   NorthMain134   WR   S   128000   Left   \$3.12   36   35   Structure   R292672   Structures   NorthMain134   WR   S   128000   Left   \$6.83   36   35   Structure   R29282   Structures   NorthMain134   WR   S   128000   Left   \$6.83   36   35   Structure   R29282   Structures   NorthMain134   WR   S   128000   Left   \$6.87   40   39   Structure   R29292   Structures   NorthMain134   WR   S   140000   Left   \$6.87   40   39   Structure   R29292   Structures   NorthMain134   WR   S   140000   Left   \$6.87   40   39   Structure   R29300   Structures   NorthMain134   WR   S   140000   Left   \$6.87   20   40   39   Structure   R29300   Structures   NorthMain134   WR   S   128000   Left   \$10.16   36   35   Structure   R29315   Structures   NorthMain134   WR   S   122000   Left   \$3.59   34   33   Structure   R29315   Structures   NorthMain134   WR   S   122000   Left   \$3.79   30   39   Structure   R29315   Structures   NorthMain134   WR   S   122000   Left   \$1.16   36   35   Structure   R29330   Structures   NorthMain134   WR   S   122000   Left   \$1.28   36   35   Structure   R29345   Structures   NorthMain134   WR   S   128000   Left   \$1.28   36   35   Structure   R29345   Structures   NorthMain134   WR   S   128000   Left   \$1.38   36   35   Structure   R29349   Structures   NorthMain134   WR   S   143233   Left   \$3.29   40   39   Structure   R29349   Structures   NorthMain134   WR   S   143233   Left   \$3.29   40   39   Structure   R29349   Structures   NorthMain134   WR   S   143233   Left   \$3.20   40   39   Structure   R29349   Structures   NorthMain134   WR   S   128000   Left   \$1.50   36   35   Structure   R29349   Structures   NorthMain134   WR   S   128000   Left   \$3.70   36   35   Structure   R29349   Stru      |           |            |              |        |     |          |       |           |               |        |           |
| R29261   Structures   NorthMain134   WR   IS   138000   Left   \$13.70   36   35   I structure   R29263   Structures   NorthMain134   IWR   IS   138000   Left   \$30.96   36   35   I structure   R29272   Structures   NorthMain134   IWR   IS   128000   Left   \$3.312   36   35   I structure   R29272   Structures   NorthMain134   IWR   IS   128000   Left   \$6.83   36   35   I structure   R29272   Structures   NorthMain134   IWR   IS   128000   Left   \$6.83   36   35   I structure   R29282   Structures   NorthMain134   IWR   IS   128000   Left   \$9.74   31   30   I structure   R29292   Structures   NorthMain134   IWR   IS   134000   Left   \$10.05   36   35   I structure   R29292   Structures   NorthMain134   IWR   IS   134000   Left   \$30.57   36   35   I structure   R29293   Structures   NorthMain134   IWR   IS   138000   Left   \$30.57   36   35   I structure   R29295   Structures   NorthMain134   IWR   IS   138000   Left   \$30.59   34   33   Structure   R29315   Structures   NorthMain134   IWR   IS   128000   Left   \$35.59   34   33   Structure   R29326   Structures   NorthMain134   IWR   IS   128000   Left   \$31.780   36   35   I structure   R29332   Structures   NorthMain134   IWR   IS   128000   Left   \$31.780   36   35   I structure   R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$31.33   36   35   I structure   R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$31.33   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$31.33   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$31.33   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$31.50   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$31.50   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$3.50   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$3.50   36   35   I structure   R29369   Struct       |           |            |              |        |     |          |       |           |               |        |           |
| R29263   Structures   NorthMain134   IWR   IS   138000   Left   \$30.96   36   35   I structure   R29266   Structures   NorthMain134   IWR   IS   128000   Left   \$3.12   36   35   I structure   R29282   Structures   NorthMain134   IWR   IS   128000   Left   \$9.74   31   30   I structure   R29282   Structures   NorthMain134   IWR   IS   128000   Left   \$9.74   31   30   I structure   R29282   Structures   NorthMain134   IWR   IS   132000   Left   \$100.51   36   35   I structure   R29292   Structures   NorthMain134   IWR   IS   134000   Left   \$100.51   36   35   I structure   R29292   Structures   NorthMain134   IWR   IS   134000   Left   \$100.51   36   35   I structure   R29292   Structures   NorthMain134   IWR   IS   134000   Left   \$100.51   36   36   35   I structure   R29315   Structures   NorthMain134   IWR   IS   138000   Left   \$35.93   34   33   I structure   R29315   Structures   NorthMain134   IWR   IS   122000   Left   \$35.93   34   33   I structure   R29315   Structures   NorthMain134   IWR   IS   122000   Left   \$35.93   34   33   I structure   R29315   Structures   NorthMain134   IWR   IS   128000   Left   \$12.36   36   35   I structure   R29326   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   I structure   R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$18.13   36   35   I structure   R29367   Structures   NorthMain134   IWR   IS   128000   Left   \$18.13   36   35   I structure   R29369   Structures   NorthMain134   IWR   IS   143233   Left   \$32.29   40   39   I structure   R29495   Structures   NorthMain134   IWR   IS   143233   Left   \$32.29   40   39   I structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   36   35   I structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   36   35   I structure   R29569   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   36   35   I structure   R29569   Structures   NorthMain134   IWR   IS   80000   Right   \$48.70   29   29   I structure   R       |           |            |              |        |     |          |       |           |               |        |           |
| R29266   Structures   NorthMain134   WR   1S   128000   Left   \$3.12   36   35   Instructure   R29277   Structures   NorthMain134   WR   1S   128000   Left   \$6.83   36   35   Instructure   R29282   Structures   NorthMain134   WR   1S   102000   Left   \$9.74   31   30   Instructure   R29292   Structures   NorthMain134   WR   1S   102000   Left   \$10.51   36   35   Instructure   R29292   Structures   NorthMain134   WR   1S   134000   Left   \$10.51   36   35   Instructure   R29294   Structures   NorthMain134   WR   1S   134000   Left   \$10.51   36   36   35   Instructure   R29294   Structures   NorthMain134   WR   1S   88000   Right   \$22.75   30   29   Instructure   R29315   Structures   NorthMain134   WR   1S   138000   Left   \$10.16   36   36   35   Instructure   R29315   Structures   NorthMain134   WR   1S   138000   Left   \$10.16   36   36   35   Instructure   R29315   Structures   NorthMain134   WR   1S   128000   Left   \$17.80   36   35   Instructure   R29332   Structures   NorthMain134   WR   1S   128000   Left   \$17.80   36   35   Instructure   R29345   Structures   NorthMain134   WR   1S   128000   Left   \$12.33   36   35   Instructure   R29345   Structures   NorthMain134   WR   1S   128000   Left   \$18.13   36   35   Instructure   R29346   Structures   NorthMain134   WR   1S   128000   Left   \$18.13   36   35   Instructure   R29349   Structures   NorthMain134   WR   1S   143233   Left   \$32.29   40   39   Instructure   R29349   Structures   NorthMain134   WR   1S   128000   Left   \$1.50   36   35   Instructure   R29496   Structures   NorthMain134   WR   1S   128000   Left   \$1.50   36   35   Instructure   R29496   Structures   NorthMain134   WR   1S   128000   Left   \$1.50   36   35   Instructure   R29496   Structures   NorthMain134   WR   1S   128000   Left   \$1.65   36   35   Instructure   R29496   Structures   NorthMain134   WR   1S   80000   Right   \$27.25   40   39   Instructure   R29596   Structures   NorthMain134   WR   1S   80000   Right   \$2.42   25   24   1 Instructure   R29596   Structures       |           |            |              |        |     |          |       |           |               |        |           |
| R29272   Structures   NorthMain134   WR   S   128000   Left   \$9.74   31   30   structure   R29282   Structures   NorthMain134   WR   S   130000   Left   \$9.74   31   30   structure   R29294   Structures   NorthMain134   WR   S   134000   Left   \$9.74   31   30   structure   R29294   Structures   NorthMain134   WR   S   134000   Left   \$68.72   40   39   structure   R29295   Structures   NorthMain134   WR   S   140000   Left   \$68.72   40   39   structure   R29300   Structures   NorthMain134   WR   S   88000   Right   \$22.75   30   29   structure   R29315   Structures   NorthMain134   WR   S   138000   Left   \$10.16   36   35   structure   R29315   Structures   NorthMain134   WR   S   122000   Left   \$35.93   34   33   structure   R29332   Structures   NorthMain134   WR   S   128000   Left   \$12.38   36   35   structure   R29332   Structures   NorthMain134   WR   S   128000   Left   \$12.38   36   35   structure   R29332   Structures   NorthMain134   WR   S   128000   Left   \$12.38   36   35   structure   R29336   Structures   NorthMain134   WR   S   128000   Left   \$12.38   36   35   structure   R29336   Structures   NorthMain134   WR   S   143233   Left   \$32.29   40   39   structure   R29346   Structures   NorthMain134   WR   S   128000   Left   \$1.50   36   35   structure   R29496   Structures   NorthMain134   WR   S   128000   Left   \$1.50   36   35   structure   R29496   Structures   NorthMain134   WR   S   128000   Left   \$1.50   36   35   structure   R29528   Structures   NorthMain134   WR   S   128000   Left   \$2.8.01   26   25   structure   R29528   Structures   NorthMain134   WR   S   128000   Left   \$2.8.01   26   25   structure   R29528   Structures   NorthMain134   WR   S   80000   Left   \$2.8.01   26   25   structure   R29528   Structures   NorthMain134   WR   S   80000   Left   \$2.8.01   26   25   structure   R29528   Structures   NorthMain134   WR   S   80000   Right   \$2.2.10   27   26   structure   R29528   Structures   NorthMain134   WR   S   80000   Right   \$2.2.10   27   26   structure         |           |            |              |        |     |          |       |           |               |        |           |
| R29282   Structures   NorthMain134   IWR   IS   102000   Left   \$9.74   31   30   1 structure   R29292   Structures   NorthMain134   IWR   IS   134000   Left   \$100.51   36   35   1 structure   R29294   Structures   NorthMain134   IWR   IS   144000   Left   \$88.72   40   39   1 structure   R29295   Structures   NorthMain134   IWR   IS   88000   Right   \$22.75   30   29   1 structure   R29300   Structures   NorthMain134   IWR   IS   138000   Left   \$10.16   36   35   1 structure   R29315   Structures   NorthMain134   IWR   IS   128000   Left   \$35.93   34   33   1 structure   R29326   Structures   NorthMain134   IWR   IS   128000   Left   \$17.80   36   35   1 structure   R293325   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R293345   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R29346   Structures   NorthMain134   IWR   IS   128000   Left   \$18.13   36   35   1 structure   R29367   Structures   NorthMain134   IWR   IS   128000   Left   \$15.00   36   35   1 structure   R29369   Structures   NorthMain134   IWR   IS   143233   Left   \$22.29   40   39   1 structure   R29495   Structures   NorthMain134   IWR   IS   143233   Left   \$27.25   40   39   1 structure   R29495   Structures   NorthMain134   IWR   IS   128000   Left   \$15.00   36   35   1 structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$15.00   36   35   1 structure   R29528   Structures   NorthMain134   IWR   IS   128000   Left   \$39.53   36   35   1 structure   R29569   Structures   NorthMain134   IWR   IS   80000   Left   \$28.01   26   25   1 structure   R29569   Structures   NorthMain134   IWR   IS   80000   Left   \$28.01   26   27   1 structure   R29569   Structures   NorthMain134   IWR   IS   80000   Right   \$48.70   29   27   1 structure   R29569   Structures   NorthMain134   IWR   IS   80000   Right   \$2.42   25   24   1 structure   R29601   Structures   NorthMain134   IWR   IS   80000   Right   \$2.32   39   38   1 structure   R29633          |           |            |              |        |     |          |       |           |               |        |           |
| R29292  |           |            |              |        |     |          |       |           |               |        |           |
| R29294   Structures   NorthMain134   IWR 1S   140000   Left   \$68.72   40   39   1 structure   R29295   Structures   NorthMain134   IWR 1S   88000   Right   \$22.75   30   29   1 structure   R29300   Structures   NorthMain134   IWR 1S   138000   Left   \$10.16   36   35   1 structure   R29315   Structures   NorthMain134   IWR 1S   122000   Left   \$35.93   34   33   1 structure   R29315   Structures   NorthMain134   IWR 1S   122000   Left   \$35.93   34   35   1 structure   R29328   Structures   NorthMain134   IWR 1S   128000   Left   \$12.38   36   35   1 structure   R29332   Structures   NorthMain134   IWR 1S   128000   Left   \$12.38   36   35   1 structure   R29345   Structures   NorthMain134   IWR 1S   128000   Left   \$12.38   36   35   1 structure   R29345   Structures   NorthMain134   IWR 1S   128000   Left   \$18.13   36   35   1 structure   R29367   Structures   NorthMain134   IWR 1S   143233   Left   \$32.29   40   39   1 structure   R29369   Structures   NorthMain134   IWR 1S   143233   Left   \$32.29   40   39   1 structure   R29495   Structures   NorthMain134   IWR 1S   128000   Left   \$16.55   36   35   1 structure   R29495   Structures   NorthMain134   IWR 1S   128000   Left   \$16.55   36   35   1 structure   R29564   Structures   NorthMain134   IWR 1S   128000   Left   \$5.53   36   35   1 structure   R29564   Structures   NorthMain134   IWR 1S   98000   Left   \$5.63   36   35   1 structure   R29569   Structures   NorthMain134   IWR 1S   98000   Left   \$5.63   36   35   1 structure   R29569   Structures   NorthMain134   IWR 1S   98000   Left   \$5.63   36   35   1 structure   R29569   Structures   NorthMain134   IWR 1S   98000   Left   \$5.63   30   29   1 structure   R29569   Structures   NorthMain134   IWR 1S   88000   Right   \$6.73   30   29   28   1 structure   R29569   Structures   NorthMain134   IWR 1S   88000   Right   \$6.73   30   29   28   1 structure   R29601   Structures   NorthMain134   IWR 1S   82000   Right   \$6.32   39   38   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000       |           |            |              |        |     |          |       |           |               |        |           |
| R29295   Structures   NorthMain134   IWR 1S   88000   Right   \$22.75   30   29   1 structure   R29300   Structures   NorthMain134   IWR 1S   138000   Left   \$10.16   36   35   1 structure   R29315   Structures   NorthMain134   IWR 1S   128000   Left   \$35.93   34   33   1 structure   R29326   Structures   NorthMain134   IWR 1S   128000   Left   \$17.80   36   35   1 structure   R29332   Structures   NorthMain134   IWR 1S   128000   Left   \$17.80   36   35   1 structure   R29345   Structures   NorthMain134   IWR 1S   128000   Left   \$18.13   36   35   1 structure   R29345   Structures   NorthMain134   IWR 1S   128000   Left   \$18.33   36   35   1 structure   R29345   Structures   NorthMain134   IWR 1S   143233   Left   \$32.29   40   39   1 structure   R29495   Structures   NorthMain134   IWR 1S   143233   Left   \$32.29   40   39   1 structure   R29495   Structures   NorthMain134   IWR 1S   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR 1S   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR 1S   128000   Left   \$1.65   36   35   1 structure   R29546   Structures   NorthMain134   IWR 1S   128000   Left   \$1.55   36   35   1 structure   R29546   Structures   NorthMain134   IWR 1S   128000   Left   \$1.55   36   35   1 structure   R29564   Structures   NorthMain134   IWR 1S   98000   Left   \$1.20   128   27   1 structure   R29569   Structures   NorthMain134   IWR 1S   88000   Right   \$48.70   29   28   1 structure   R29560   Structures   NorthMain134   IWR 1S   88000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR 1S   82000   Right   \$48.70   29   28   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$48.70   29   28   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$22.10   27   26   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$23.24   25   24   1 structure   R29603   Structures   NorthMain134   IWR 1S   152561          |           |            |              |        |     |          |       |           |               |        |           |
| R29300   Structures   NorthMain134   WR 1S   138000   Left   \$10.16   36   35   1 structure   R29315   Structures   NorthMain134   WR 1S   122000   Left   \$35.93   34   33   1 structure   R29326   Structures   NorthMain134   WR 1S   122000   Left   \$35.93   34   33   1 structure   R29332   Structures   NorthMain134   WR 1S   128000   Left   \$17.80   36   35   1 structure   R29345   Structures   NorthMain134   WR 1S   128000   Left   \$12.38   36   35   1 structure   R29345   Structures   NorthMain134   WR 1S   128000   Left   \$18.13   36   35   1 structure   R29346   Structures   NorthMain134   WR 1S   128000   Left   \$18.13   36   35   1 structure   R29346   Structures   NorthMain134   WR 1S   143233   Left   \$27.25   40   39   1 structure   R293495   Structures   NorthMain134   WR 1S   128000   Left   \$15.50   36   35   1 structure   R29496   Structures   NorthMain134   WR 1S   128000   Left   \$16.55   36   35   1 structure   R29496   Structures   NorthMain134   WR 1S   128000   Left   \$9.53   36   35   1 structure   R29569   Structures   NorthMain134   WR 1S   128000   Left   \$9.53   36   35   1 structure   R29569   Structures   NorthMain134   WR 1S   98000   Left   \$9.53   36   35   1 structure   R29569   Structures   NorthMain134   WR 1S   98000   Left   \$12.01   28   27   1 structure   R29569   Structures   NorthMain134   WR 1S   98000   Left   \$12.01   28   27   1 structure   R29569   Structures   NorthMain134   WR 1S   88000   Right   \$67.33   30   29   1 structure   R29601   Structures   NorthMain134   WR 1S   82000   Right   \$48.70   29   28   1 structure   R29602   Structures   NorthMain134   WR 1S   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   WR 1S   82000   Right   \$23.28   22   21   1 structure   R29637   Structures   NorthMain134   WR 1S   82000   Right   \$23.28   22   21   1 structure   R29633   Structures   NorthMain134   WR 1S   82000   Right   \$23.26   25   1 structure   R29633   Structures   NorthMain134   WR 1S   153231   Left   \$6.32   39   36   35      |           |            |              |        |     |          |       |           |               |        |           |
| R29315   Structures   NorthMain134   IWR   1S   122000   Left   \$35.93   34   33   Structure   R29326   Structures   NorthMain134   IWR   1S   128000   Left   \$17.80   36   35   1 structure   R29332   Structures   NorthMain134   IWR   1S   128000   Left   \$12.30   36   35   1 structure   R29345   Structures   NorthMain134   IWR   1S   128000   Left   \$18.13   36   35   1 structure   R29367   Structures   NorthMain134   IWR   1S   128000   Left   \$18.13   36   35   1 structure   R29367   Structures   NorthMain134   IWR   1S   143233   Left   \$32.29   40   39   1 structure   R29369   Structures   NorthMain134   IWR   1S   143233   Left   \$27.25   40   39   1 structure   R29496   Structures   NorthMain134   IWR   1S   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR   1S   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR   1S   128000   Left   \$1.50   36   35   1 structure   R29528   Structures   NorthMain134   IWR   1S   128000   Left   \$1.50   36   35   1 structure   R29564   Structures   NorthMain134   IWR   1S   128000   Left   \$1.50   36   35   1 structure   R29569   Structures   NorthMain134   IWR   1S   98000   Left   \$1.20   128   27   1 structure   R29569   Structures   NorthMain134   IWR   1S   88000   Right   \$67.33   30   29   1 structure   R29560   Structures   NorthMain134   IWR   1S   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR   1S   80000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   IWR   1S   82000   Right   \$2.328   22   21   1 structure   R29603   Structures   NorthMain134   IWR   1S   80000   Right   \$2.328   22   21   1 structure   R29643   Structures   NorthMain134   IWR   1S   80000   Right   \$2.328   22   21   1 structure   R29643   Structures   NorthMain134   IWR   1S   80000   Right   \$2.328   22   21   1 structure   R29643   Structures   NorthMain134   IWR   1S   152600   Left   \$13.06   30   31   structure   R29643   Structure       |           |            |              |        |     |          |       |           |               |        |           |
| R29326  |           |            |              |        |     |          |       |           |               |        |           |
| R29332   Structures   NorthMain134   IWR   IS   128000   Left   \$12.38   36   35   1 structure   R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$18.13   36   35   1 structure   R29367   Structures   NorthMain134   IWR   IS   143233   Left   \$32.29   40   39   1 structure   R29369   Structures   NorthMain134   IWR   IS   143233   Left   \$32.29   40   39   1 structure   R29495   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   36   35   1 structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   36   35   1 structure   R29528   Structures   NorthMain134   IWR   IS   128000   Left   \$9.53   36   35   1 structure   R29564   Structures   NorthMain134   IWR   IS   98000   Left   \$28.01   26   25   1 structure   R29569   Structures   NorthMain134   IWR   IS   98000   Left   \$32.01   28   27   1 structure   R29569   Structures   NorthMain134   IWR   IS   88000   Right   \$48.70   29   28   1 structure   R29560   Structures   NorthMain134   IWR   IS   88000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR   IS   82000   Right   \$48.70   29   28   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32.80   22   21   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32.80   22   21   1 structure   R29637   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32.80   22   21   1 structure   R29643   Structures   NorthMain134   IWR   IS   152561   Left   \$4.31.66   41   40   1 structure   R29663   Structures   NorthMain134   IWR   IS   152561   Left   \$4.31.66   41   40   1 structure   R29663   Structures   NorthMain134   IWR   IS   152600   Left   \$31.66   36   35   1 structure   R31332   Structures   NorthMain134   IWR   IS   128000   Left   \$31.74   36   35   1 structure   R3       |           |            |              |        |     |          |       |           |               |        |           |
| R29345   Structures   NorthMain134   IWR   IS   128000   Left   \$18.13   36   35   1 structure   R29367   Structures   NorthMain134   IWR   IS   143233   Left   \$32.29   40   39   1 structure   R29369   Structures   NorthMain134   IWR   IS   143233   Left   \$27.25   40   39   1 structure   R29495   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$9.53   36   35   1 structure   R29528   Structures   NorthMain134   IWR   IS   128000   Left   \$9.53   36   35   1 structure   R29564   Structures   NorthMain134   IWR   IS   96000   Left   \$28.01   26   25   1 structure   R29569   Structures   NorthMain134   IWR   IS   96000   Left   \$12.01   28   27   1 structure   R29596   Structures   NorthMain134   IWR   IS   88000   Right   \$48.70   29   28   1 structure   R29598   Structures   NorthMain134   IWR   IS   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32   25   26   1 structure   R29637   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32   22   27   26   1 structure   R29643   Structures   NorthMain134   IWR   IS   80000   Right   \$2.32   22   21   1 structure   R29643   Structures   NorthMain134   IWR   IS   80000   Right   \$2.32   22   21   1 structure   R29645   Structures   NorthMain134   IWR   IS   80000   Right   \$2.32   39   38   1 structure   R29645   Structures   NorthMain134   IWR   IS   153231   Left   \$6.32   39   38   1 structure   R29663   Structures   NorthMain134   IWR   IS   152600   Left   \$16.65   31   30   1 structure   R29665   Structures   NorthMain134   IWR   IS   128000   Left   \$1.0665   31   30   1 structure   R31994   Struct       |           |            |              |        |     |          |       |           |               |        |           |
| R29367   Structures   NorthMain134   IWR 1S   143233   Left   \$32.29   40   39   1 structure   R29369   Structures   NorthMain134   IWR 1S   143233   Left   \$27.25   40   39   1 structure   R29496   Structures   NorthMain134   IWR 1S   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR 1S   128000   Left   \$1.6.65   36   35   1 structure   R29528   Structures   NorthMain134   IWR 1S   128000   Left   \$9.53   36   35   1 structure   R29528   Structures   NorthMain134   IWR 1S   128000   Left   \$9.53   36   35   1 structure   R29564   Structures   NorthMain134   IWR 1S   96000   Left   \$1.201   28   27   1 structure   R29569   Structures   NorthMain134   IWR 1S   98000   Left   \$1.201   28   27   1 structure   R29569   Structures   NorthMain134   IWR 1S   88000   Right   \$67.33   30   29   1 structure   R29598   Structures   NorthMain134   IWR 1S   86000   Right   \$48.70   29   28   1 structure   R29602   Structures   NorthMain134   IWR 1S   82000   Right   \$1.30   22   22   24   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$1.30   22   25   24   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$1.30   27   26   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$1.30   27   26   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$1.30   82   22   21   1 structure   R29643   Structures   NorthMain134   IWR 1S   82000   Right   \$1.30   82   22   21   1 structure   R29645   Structures   NorthMain134   IWR 1S   153231   Left   \$1.30   41   40   39   1 structure   R29662   Structures   NorthMain134   IWR 1S   152561   Left   \$84.91   40   39   1 structure   R29662   Structures   NorthMain134   IWR 1S   152600   Left   \$1.665   31   30   1 structure   R30053   Structures   NorthMain134   IWR 1S   128000   Left   \$1.665   31   30   1 structure   R3053   Structures   NorthMain134   IWR 1S   128000   Left   \$1.665   31   30   1 structure   R31332   Structures   NorthMain134         |           |            |              |        |     |          |       |           |               |        |           |
| R29369   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29495   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29496   Structures   NorthMain134   IWR   IS   128000   Left   \$1.50   36   35   1 structure   R29528   Structures   NorthMain134   IWR   IS   128000   Left   \$9.53   36   35   1 structure   R29564   Structures   NorthMain134   IWR   IS   96000   Left   \$28.01   26   25   1 structure   R29569   Structures   NorthMain134   IWR   IS   98000   Left   \$12.01   28   27   1 structure   R29596   Structures   NorthMain134   IWR   IS   88000   Right   \$67.33   30   29   1 structure   R29598   Structures   NorthMain134   IWR   IS   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR   IS   86000   Right   \$48.70   29   28   1 structure   R29602   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32   27   26   1 structure   R29637   Structures   NorthMain134   IWR   IS   82000   Right   \$2.32   22   21   1 structure   R29637   Structures   NorthMain134   IWR   IS   80000   Right   \$2.32   22   21   1 structure   R29643   Structures   NorthMain134   IWR   IS   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   IWR   IS   153231   Left   \$13.68   41   40   1 structure   R29669   Structures   NorthMain134   IWR   IS   153231   Left   \$13.68   41   40   1 structure   R29669   Structures   NorthMain134   IWR   IS   128000   Left   \$14.99   36   35   1 structure   R30159   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   IWR   IS   128000   Left   \$16.65   31   30   1 structure   R32563   Structures   NorthMain134   IWR   IS   128000   Left   \$15.95   36   35   1 structure   R32563   Structure       |           |            |              |        |     |          |       |           |               |        |           |
| R29496   Structures   NorthMain134   WR   S   128000   Left   \$1.50   36   35   structure   R29496   Structures   NorthMain134   WR   S   128000   Left   \$1.665   36   35   structure   R29528   Structures   NorthMain134   WR   S   128000   Left   \$9.53   36   35   structure   R29564   Structures   NorthMain134   WR   S   96000   Left   \$28.01   26   25   structure   R29569   Structures   NorthMain134   WR   S   96000   Left   \$12.01   28   27   structure   R29596   Structures   NorthMain134   WR   S   88000   Right   \$67.33   30   29   1 structure   R29596   Structures   NorthMain134   WR   S   88000   Right   \$67.33   30   29   1 structure   R29596   Structures   NorthMain134   WR   S   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   WR   S   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   WR   S   82000   Right   \$18.31   26   25   1 structure   R29603   Structures   NorthMain134   WR   S   82000   Right   \$23.28   22   21   structure   R29637   Structures   NorthMain134   WR   S   80000   Right   \$23.28   22   21   structure   R29643   Structures   NorthMain134   WR   S   80000   Right   \$23.28   22   21   structure   R29645   Structures   NorthMain134   WR   S   153231   Left   \$13.68   41   40   1 structure   R29692   Structures   NorthMain134   WR   S   153231   Left   \$13.68   41   40   1 structure   R29692   Structures   NorthMain134   WR   S   152600   Left   \$12.99   36   35   1 structure   R30159   Structures   NorthMain134   WR   S   126000   Left   \$12.99   36   35   1 structure   R30159   Structures   NorthMain134   WR   S   128000   Left   \$10.65   31   30   1 structure   R31934   Structures   NorthMain134   WR   S   128000   Left   \$10.65   30   29   1 structure   R32563   Structures   NorthMain134   WR   S   128000   Left   \$10.75   36   35   1 structure   R32573   Structures   NorthMain134   WR   S   128000   Left   \$10.75   36   35   1 structure   R32581   Structures   NorthMain134   WR   S   128000   Left   \$10.75        |           |            |              |        |     |          |       |           |               |        |           |
| R29496   Structures   NorthMain134   WR   S   128000   Left   \$16.65   36   35   structure   R29528   Structures   NorthMain134   WR   S   128000   Left   \$9.53   36   35   structure   R29564   Structures   NorthMain134   WR   S   96000   Left   \$28.01   26   25   structure   R29569   Structures   NorthMain134   WR   S   96000   Left   \$12.01   28   27   1 structure   R29596   Structures   NorthMain134   WR   S   88000   Right   \$67.33   30   29   1 structure   R29598   Structures   NorthMain134   WR   S   86000   Right   \$67.33   30   29   1 structure   R29598   Structures   NorthMain134   WR   S   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   WR   S   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   WR   S   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   WR   S   82000   Right   \$22.10   27   26   1 structure   R29603   Structures   NorthMain134   WR   S   82000   Right   \$22.10   27   26   1 structure   R29603   Structures   NorthMain134   WR   S   80000   Right   \$23.28   22   21   1 structure   R29603   Structures   NorthMain134   WR   S   80000   Right   \$23.28   22   21   1 structure   R29603   Structures   NorthMain134   WR   S   153231   Left   \$13.68   41   40   1 structure   R29603   Structures   NorthMain134   WR   S   153231   Left   \$13.68   41   40   1 structure   R29603   Structures   NorthMain134   WR   S   153231   Left   \$13.68   41   40   1 structure   R29603   Structures   NorthMain134   WR   S   153231   Left   \$13.68   41   40   1 structure   R29603   Structures   NorthMain134   WR   S   152600   Left   \$12.99   36   35   1 structure   R29603   Structures   NorthMain134   WR   S   128000   Left   \$12.99   36   35   1 structure   R29603   Structures   NorthMain134   WR   S   128000   Left   \$10.65   31   30   1 structure   R30159   Structures   NorthMain134   WR   S   128000   Left   \$10.65   31   30   1 structure   R30159   Structures   NorthMain134   WR   S   128000   Left        |           |            |              |        |     |          |       |           |               |        |           |
| R29528   Structures   NorthMain134   IWR   1S   128000   Left   \$9.53   36   35   Structure   R29564   Structures   NorthMain134   IWR   1S   96000   Left   \$12.01   28   27   Structure   R29569   Structures   NorthMain134   IWR   1S   98000   Left   \$12.01   28   27   Structure   R29569   Structures   NorthMain134   IWR   1S   88000   Right   \$67.33   30   29   Structure   R29598   Structures   NorthMain134   IWR   1S   86000   Right   \$48.70   29   28   1 structure   R29598   Structures   NorthMain134   IWR   1S   82000   Right   \$2.42   25   24   1 structure   R29601   Structures   NorthMain134   IWR   1S   82000   Right   \$18.31   26   25   1 structure   R29602   Structures   NorthMain134   IWR   1S   82000   Right   \$18.31   26   25   1 structure   R29603   Structures   NorthMain134   IWR   1S   82000   Right   \$18.31   26   25   1 structure   R29637   Structures   NorthMain134   IWR   1S   82000   Right   \$23.28   22   21   1 structure   R29643   Structures   NorthMain134   IWR   1S   82000   Right   \$23.28   22   21   1 structure   R29645   Structures   NorthMain134   IWR   1S   153231   Left   \$13.68   41   40   1 structure   R296645   Structures   NorthMain134   IWR   1S   152561   Left   \$84.91   40   39   1 structure   R29669   Structures   NorthMain134   IWR   1S   153231   Left   \$12.99   36   35   1 structure   R29669   Structures   NorthMain134   IWR   1S   128000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR   1S   128000   Left   \$16.65   31   30   1 structure   R31332   Structures   NorthMain134   IWR   1S   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR   1S   128000   Left   \$31.74   36   35   1 structure   R32563   Structures   NorthMain134   IWR   1S   128000   Left   \$10.75   36   35   1 structure   R32563   Structures   NorthMain134   IWR   1S   128000   Left   \$10.75   36   35   1 structure   R32573   Structures   NorthMain134   IWR   1S   128000   Left   \$10.75   36   35   1 structure   R32576   Structure       |           |            |              |        |     |          |       |           |               |        |           |
| R29564   Structures   NorthMain134   IWR   IS   96000   Left   \$28.01   26   25   1 structure   R29569   Structures   NorthMain134   IWR   IS   98000   Left   \$12.01   28   27   1 structure   R29596   Structures   NorthMain134   IWR   IS   88000   Right   \$67.33   30   29   1 structure   R29596   Structures   NorthMain134   IWR   IS   86000   Right   \$48.70   29   28   1 structure   R29501   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$22.10   27   26   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$22.10   27   26   1 structure   R29643   Structures   NorthMain134   IWR   IS   80000   Right   \$22.10   27   26   1 structure   R29643   Structures   NorthMain134   IWR   IS   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   IWR   IS   152561   Left   \$84.91   40   39   1 structure   R29645   Structures   NorthMain134   IWR   IS   152561   Left   \$84.91   40   39   1 structure   R29692   Structures   NorthMain134   IWR   IS   126000   Left   \$13.68   41   40   1 structure   R29663   Structures   NorthMain134   IWR   IS   126000   Left   \$16.65   31   30   1 structure   R30053   Structures   NorthMain134   IWR   IS   126000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   IWR   IS   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR   IS   128000   Left   \$31.74   36   35   1 structure   R32563   Structures   NorthMain134   IWR   IS   128000   Left   \$16.96   36   35   1 structure   R32563   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   35   1 structure   R32778   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   35   1 structure   R32778   Structures   NorthMain134   IWR   IS   128000   Left   \$10.75   36   35   1 structure   R32478   St       |           |            |              |        |     |          |       |           |               |        |           |
| R29569   Structures   NorthMain134   IWR 1S   98000   Left   \$12.01   28   27   1 structure   R29596   Structures   NorthMain134   IWR 1S   88000   Right   \$67.33   30   29   1 structure   R29598   Structures   NorthMain134   IWR 1S   86000   Right   \$48.70   29   28   1 structure   R29598   Structures   NorthMain134   IWR 1S   82000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR 1S   82000   Right   \$18.31   26   25   1 structure   R29602   Structures   NorthMain134   IWR 1S   82000   Right   \$18.31   26   25   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$22.10   27   26   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$23.28   22   21   1 structure   R29643   Structures   NorthMain134   IWR 1S   153231   Left   \$13.68   41   40   1 structure   R29643   Structures   NorthMain134   IWR 1S   153231   Left   \$13.68   41   40   1 structure   R29663   Structures   NorthMain134   IWR 1S   153231   Left   \$6.32   39   38   1 structure   R29663   Structures   NorthMain134   IWR 1S   153231   Left   \$6.32   39   38   1 structure   R29692   Structures   NorthMain134   IWR 1S   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR 1S   126000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR 1S   128000   Left   \$36.55   30   29   1 structure   R32563   Structures   NorthMain134   IWR 1S   128000   Left   \$5.18   36   35   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$5.18   36   35   1 structure   R32735   Structures   NorthMain134   IWR 1S   128000   Left   \$5.95   36   35   1 structure   R32778   Structures   NorthMain134   IWR 1S   128000   Left   \$5.95   36   35   1 structure   R32778   Structures   NorthMain134   IWR 1S   128000   Left   \$5.95   36   35   1 structure   R32735   Structures   NorthMain134   IWR 1S   128000   Le       |           |            |              |        |     |          |       |           |               |        |           |
| R29596   Structures   NorthMain134   WR 15   88000   Right   \$67.33   30   29   1 structure   R29598   Structures   NorthMain134   WR 15   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   WR 15   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   WR 15   82000   Right   \$2.42   25   24   1 structure   R29603   Structures   NorthMain134   WR 15   82000   Right   \$22.10   27   26   1 structure   R29637   Structures   NorthMain134   WR 15   82000   Right   \$22.10   27   26   1 structure   R29637   Structures   NorthMain134   WR 15   80000   Right   \$23.28   22   21   1 structure   R29643   Structures   NorthMain134   WR 15   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   WR 15   153231   Left   \$13.68   41   40   1 structure   R29663   Structures   NorthMain134   WR 15   152561   Left   \$84.91   40   39   1 structure   R29663   Structures   NorthMain134   WR 15   153231   Left   \$6.32   39   38   1 structure   R29663   Structures   NorthMain134   WR 15   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   WR 15   126000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   WR 15   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   WR 15   128000   Left   \$31.74   36   35   1 structure   R32563   Structures   NorthMain134   WR 15   128000   Left   \$16.96   36   35   1 structure   R32563   Structures   NorthMain134   WR 15   128000   Left   \$16.96   36   35   1 structure   R32573   Structures   NorthMain134   WR 15   128000   Left   \$10.75   36   35   1 structure   R32573   Structures   NorthMain134   WR 15   128000   Left   \$10.75   36   35   1 structure   R32706   Structures   NorthMain134   WR 15   128000   Left   \$10.75   36   35   1 structure   R32706   Structures   NorthMain134   WR 15   128000   Left   \$10.75   36   35   1 structure   R32705   Structures   NorthMain134   WR 15   128000   Left   \$10.75   36       |           |            |              |        |     |          |       |           |               |        |           |
| R29598   Structures   NorthMain134   IWR 1S   86000   Right   \$48.70   29   28   1 structure   R29601   Structures   NorthMain134   IWR 1S   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   IWR 1S   82000   Right   \$18.31   26   25   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$22.10   27   26   1 structure   R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$22.10   27   26   1 structure   R29637   Structures   NorthMain134   IWR 1S   80000   Right   \$22.20   22   21   1 structure   R29643   Structures   NorthMain134   IWR 1S   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   IWR 1S   152561   Left   \$84.91   40   39   1 structure   R29663   Structures   NorthMain134   IWR 1S   153231   Left   \$6.32   39   38   1 structure   R29692   Structures   NorthMain134   IWR 1S   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR 1S   126000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31934   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R32563   Structures   NorthMain134   IWR 1S   128000   Left   \$9.65   30   29   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$5.18   36   35   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$10.75   36   35   1 structure   R32776   Structures   NorthMain134   IWR 1S   128000   Left   \$1.76   32   31   1 structure   R32778   Structures   NorthMain134   IWR 1S   128000   Left   \$1.76   32   31   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$1.075   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$1.075   36   35   1 structure   R32778   Structures   NorthMain134   IWR 1S   128000   Left   \$1.095   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   126000          |           |            |              |        |     |          |       |           |               |        |           |
| R29601   Structures   NorthMain134   IWR   IS   82000   Right   \$2.42   25   24   1 structure   R29602   Structures   NorthMain134   IWR   IS   82000   Right   \$18.31   26   25   1 structure   R29603   Structures   NorthMain134   IWR   IS   82000   Right   \$22.10   27   26   1 structure   R29637   Structures   NorthMain134   IWR   IS   80000   Right   \$23.28   22   21   1 structure   R29643   Structures   NorthMain134   IWR   IS   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   IWR   IS   152561   Left   \$84.91   40   39   1 structure   R29663   Structures   NorthMain134   IWR   IS   153231   Left   \$6.32   39   38   1 structure   R29692   Structures   NorthMain134   IWR   IS   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR   IS   126000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   IWR   IS   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR   IS   128000   Left   \$31.74   36   35   1 structure   R31984   Structures   NorthMain134   IWR   IS   128000   Left   \$9.65   30   29   1 structure   R32563   Structures   NorthMain134   IWR   IS   128000   Left   \$16.96   36   35   1 structure   R32573   Structures   NorthMain134   IWR   IS   128000   Left   \$15.18   36   35   1 structure   R32776   Structures   NorthMain134   IWR   IS   128000   Left   \$5.18   36   35   1 structure   R32776   Structures   NorthMain134   IWR   IS   128000   Left   \$5.95   36   35   1 structure   R32778   Structures   NorthMain134   IWR   IS   128000   Left   \$5.95   36   35   1 structure   R32778   Structures   NorthMain134   IWR   IS   128000   Left   \$50.29   36   35   1 structure   R32801   Structures   NorthMain134   IWR   IS   129441   Left   \$50.29   36   35   1 structure   R32801   Structures   NorthMain134   IWR   IS   129441   Left   \$50.29   36   35   1 structure   R33446   Structures   NorthMain134   IWR   IS   126000   Left   \$16.95   35   34   1 structure   R33447   Stru       |           |            |              |        |     |          |       |           |               |        |           |
| R29602         Structures         NorthMain134         IWR_1S         82000 Right         \$18.31         26         25 1 structure           R29603         Structures         NorthMain134         IWR_1S         82000 Right         \$22.10         27         26 1 structure           R29637         Structures         NorthMain134         IWR_1S         80000 Right         \$23.28         22         21 1 structure           R29643         Structures         NorthMain134         IWR_1S         153231 Left         \$13.68         41         40 1 structure           R29643         Structures         NorthMain134         IWR_1S         153231 Left         \$13.68         41         40 1 structure           R29643         Structures         NorthMain134         IWR_1S         153231 Left         \$6.32         39         38 1 structure           R29663         Structures         NorthMain134         IWR_1S         153231 Left         \$6.32         39         38 1 structure           R29692         Structures         NorthMain134         IWR_1S         126000 Left         \$12.99         36         35 1 structure           R30159         Structures         NorthMain134         IWR_1S         128000 Left         \$16.65         31         30 1 s   |           |            |              |        |     |          |       |           |               |        |           |
| R29603   Structures   NorthMain134   IWR 1S   82000   Right   \$22.10   27   26   1 structure   R29637   Structures   NorthMain134   IWR 1S   80000   Right   \$23.28   22   21   1 structure   R29643   Structures   NorthMain134   IWR 1S   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   IWR 1S   152561   Left   \$84.91   40   39   1 structure   R29663   Structures   NorthMain134   IWR 1S   153231   Left   \$6.32   39   38   1 structure   R29692   Structures   NorthMain134   IWR 1S   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR 1S   126000   Left   \$16.65   31   30   1 structure   R30053   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31984   Structures   NorthMain134   IWR 1S   120000   Left   \$21.24   40   39   1 structure   R32563   Structures   NorthMain134   IWR 1S   128000   Left   \$16.96   36   35   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$16.96   36   35   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$5.18   36   35   1 structure   R32706   Structures   NorthMain134   IWR 1S   128000   Left   \$5.95   36   35   1 structure   R32706   Structures   NorthMain134   IWR 1S   128000   Left   \$5.95   36   35   1 structure   R32778   Structures   NorthMain134   IWR 1S   128000   Left   \$11.76   32   31   1 structure   R32801   Structures   NorthMain134   IWR 1S   129441   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   129441   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   126000   Left   \$16.95   35   34   1 structure   R33446   Structures   NorthMain134   IWR 1S   126000   Left   \$16.95   35   34   1 structure   R33446   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000         |           |            |              |        |     |          |       |           |               |        |           |
| R29637   Structures   NorthMain134   IWR 1S   80000   Right   \$23.28   22   21   1 structure   R29643   Structures   NorthMain134   IWR 1S   153231   Left   \$13.68   41   40   1 structure   R29645   Structures   NorthMain134   IWR 1S   152561   Left   \$84.91   40   39   1 structure   R29663   Structures   NorthMain134   IWR 1S   153231   Left   \$6.32   39   38   1 structure   R29692   Structures   NorthMain134   IWR 1S   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR 1S   102000   Left   \$16.65   31   30   1 structure   R30159   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31984   Structures   NorthMain134   IWR 1S   120000   Left   \$9.65   30   29   1 structure   R32563   Structures   NorthMain134   IWR 1S   128000   Left   \$9.65   30   29   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$16.96   36   35   1 structure   R32581   Structures   NorthMain134   IWR 1S   128000   Left   \$10.75   36   35   1 structure   R32776   Structures   NorthMain134   IWR 1S   128000   Left   \$10.75   36   35   1 structure   R32778   Structures   NorthMain134   IWR 1S   128000   Left   \$11.76   32   31   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$11.76   32   31   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   128000   Left   \$10.95   35   34   1 structure   R32801   Structures   NorthMain134   IWR 1S   126000   Left   \$10.95   35   34   1 structure   R33446   Structures   NorthMain134   IWR 1S   126000       |           |            |              |        |     |          |       |           |               |        |           |
| R29643   Structures   NorthMain134   IWR   1S   153231   Left   \$13.68   41   40   1 structure   |           |            |              |        |     |          |       |           |               |        |           |
| R29645         Structures         NorthMain134         IWR_1S         152561 Left         \$84.91         40         39 1 structure           R29663         Structures         NorthMain134         IWR_1S         153231 Left         \$6.32         39         38 1 structure           R29692         Structures         NorthMain134         IWR_1S         126000 Left         \$12.99         36         35 1 structure           R30053         Structures         NorthMain134         IWR_1S         102000 Left         \$16.65         31         30 1 structure           R30159         Structures         NorthMain134         IWR_1S         128000 Left         \$31.74         36         35 1 structure           R31984         Structures         NorthMain134         IWR_1S         120000 Left         \$9.65         30         29 1 structure           R32563         Structures         NorthMain134         IWR_1S         128000 Left         \$16.96         36         35 1 structure           R32573         Structures         NorthMain134         IWR_1S         128000 Left         \$5.18         36         35 1 structure           R32706         Structures         NorthMain134         IWR_1S         128000 Left         \$10.75         36         35 1 st   |           |            |              |        |     |          |       |           |               |        |           |
| R29663         Structures         NorthMain134         IWR_1S         153231 Left         \$6.32         39         38 1 structure           R29692         Structures         NorthMain134         IWR_1S         126000 Left         \$12.99         36         35 1 structure           R30053         Structures         NorthMain134         IWR_1S         102000 Left         \$16.65         31         30 1 structure           R30159         Structures         NorthMain134         IWR_1S         128000 Left         \$31.74         36         35 1 structure           R31332         Structures         NorthMain134         IWR_1S         140000 Left         \$21.24         40         39 1 structure           R31984         Structures         NorthMain134         IWR_1S         120000 Left         \$9.65         30         29 1 structure           R32563         Structures         NorthMain134         IWR_1S         128000 Left         \$16.96         36         35 1 structure           R32573         Structures         NorthMain134         IWR_1S         128000 Left         \$5.18         36         35 1 structure           R32706         Structures         NorthMain134         IWR_1S         128000 Left         \$5.95         36         35 1 str   |           |            |              |        |     |          |       |           |               |        |           |
| R29692   Structures   NorthMain134   IWR 1S   126000   Left   \$12.99   36   35   1 structure   R30053   Structures   NorthMain134   IWR 1S   102000   Left   \$12.99   36   35   1 structure   R30159   Structures   NorthMain134   IWR 1S   128000   Left   \$31.74   36   35   1 structure   R31332   Structures   NorthMain134   IWR 1S   140000   Left   \$21.24   40   39   1 structure   R31984   Structures   NorthMain134   IWR 1S   120000   Left   \$9.65   30   29   1 structure   R32563   Structures   NorthMain134   IWR 1S   128000   Left   \$16.96   36   35   1 structure   R32573   Structures   NorthMain134   IWR 1S   128000   Left   \$5.18   36   35   1 structure   R32581   Structures   NorthMain134   IWR 1S   128000   Left   \$10.75   36   35   1 structure   R32706   Structures   NorthMain134   IWR 1S   128000   Left   \$5.95   36   35   1 structure   R32735   Structures   NorthMain134   IWR 1S   128000   Left   \$11.76   32   31   1 structure   R32778   Structures   NorthMain134   IWR 1S   129441   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR 1S   129441   Left   \$50.29   36   35   1 structure   R32817   Structures   NorthMain134   IWR 1S   129441   Left   \$50.29   36   35   1 structure   R33446   Structures   NorthMain134   IWR 1S   126000   Left   \$16.95   35   34   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.75   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR 1S   126000   Left       |           |            |              |        |     |          |       |           |               |        |           |
| R30053   Structures   NorthMain134   IWR   1S   102000   Left   \$16.65   31   30   1 structure   |           |            |              |        |     |          |       | \$6.32    | 39            | 38 1   | structure |
| R30159   Structures   NorthMain134   IWR_1S   128000   Left   \$31.74   36   35   1 structure   |           |            |              |        |     |          |       |           |               |        |           |
| R31332   Structures   NorthMain134   IWR_1S   140000   Left   \$21.24   40   39   1 structure   R31984   Structures   NorthMain134   IWR_1S   120000   Left   \$9.65   30   29   1 structure   R32563   Structures   NorthMain134   IWR_1S   128000   Left   \$16.96   36   35   1 structure   R32573   Structures   NorthMain134   IWR_1S   128000   Left   \$5.18   36   35   1 structure   R32581   Structures   NorthMain134   IWR_1S   128000   Left   \$10.75   36   35   1 structure   R32706   Structures   NorthMain134   IWR_1S   128000   Left   \$5.95   36   35   1 structure   R32735   Structures   NorthMain134   IWR_1S   126000   Left   \$11.76   32   31   1 structure   R32778   Structures   NorthMain134   IWR_1S   129441   Left   \$15.35   36   35   1 structure   R32801   Structures   NorthMain134   IWR_1S   129441   Left   \$50.29   36   35   1 structure   R32817   Structures   NorthMain134   IWR_1S   126000   Left   \$16.95   35   34   1 structure   R33446   Structures   NorthMain134   IWR_1S   126000   Left   \$2.75   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   R33447   Structures   NorthMain134   IWR_1S   126000   Left   \$      |           |            |              |        |     |          |       |           |               |        |           |
| R31984   Structures   NorthMain134   IWR_1S   120000   Left   \$9.65   30   29   1 structure  |           |            |              |        |     |          |       |           | 36            | 35 1   | structure |
| R32563         Structures         NorthMain134         IWR_1S         128000 Left         \$16.96         36         35 I structure           R32573         Structures         NorthMain134         IWR_1S         128000 Left         \$5.18         36         35 I structure           R32581         Structures         NorthMain134         IWR_1S         128000 Left         \$10.75         36         35 I structure           R32706         Structures         NorthMain134         IWR_1S         128000 Left         \$5.95         36         35 I structure           R32735         Structures         NorthMain134         IWR_1S         126000 Left         \$11.76         32         31 I structure           R32778         Structures         NorthMain134         IWR_1S         129441 Left         \$15.35         36         35 I structure           R32801         Structures         NorthMain134         IWR_1S         129441 Left         \$50.29         36         35 I structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 I structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 I str   |           |            |              |        |     |          |       |           | 40            | 39 1   | structure |
| R32573         Structures         NorthMain134         IWR_1S         128000 Left         \$5.18         36         35 I structure           R32581         Structures         NorthMain134         IWR_1S         128000 Left         \$10.75         36         35 I structure           R32706         Structures         NorthMain134         IWR_1S         128000 Left         \$5.95         36         35 I structure           R32735         Structures         NorthMain134         IWR_1S         126000 Left         \$11.76         32         31 I structure           R32778         Structures         NorthMain134         IWR_1S         129441 Left         \$15.35         36         35 I structure           R32801         Structures         NorthMain134         IWR_1S         129441 Left         \$50.29         36         35 I structure           R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 I structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 I structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 I str   |           |            |              |        |     |          |       | \$9.65    | 30            | 29 1   | structure |
| R32581         Structures         NorthMain134         IWR_1S         128000 Left         \$10.75         36         35 I structure           R32706         Structures         NorthMain134         IWR_1S         128000 Left         \$5.95         36         35 I structure           R32735         Structures         NorthMain134         IWR_1S         126000 Left         \$11.76         32         31 I structure           R32778         Structures         NorthMain134         IWR_1S         129441 Left         \$15.35         36         35 I structure           R32801         Structures         NorthMain134         IWR_1S         129441 Left         \$50.29         36         35 I structure           R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 I structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 I structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 I structure  |           |            |              |        |     |          |       |           | 36            | 35 1   | structure |
| R32706         Structures         NorthMain134         IWR_1S         128000 Left         \$5.95         36         35 I structure           R32735         Structures         NorthMain134         IWR_1S         126000 Left         \$11.76         32         31 I structure           R32778         Structures         NorthMain134         IWR_1S         129441 Left         \$15.35         36         35 I structure           R32801         Structures         NorthMain134         IWR_1S         129441 Left         \$50.29         36         35 I structure           R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 I structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 I structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 I structure  |           |            |              |        |     |          |       |           | 36            | 35 1 : | structure |
| R32735         Structures   NorthMain134   IWR_1S   126000   Left   \$11.76   32   31   1 structure           R32778         Structures   NorthMain134   IWR_1S   129441   Left   \$15.35   36   35   1 structure           R32801         Structures   NorthMain134   IWR_1S   129441   Left   \$50.29   36   35   1 structure           R32817         Structures   NorthMain134   IWR_1S   126000   Left   \$16.95   35   34   1 structure           R33446         Structures   NorthMain134   IWR_1S   126000   Left   \$2.75   32   31   1 structure           R33447         Structures   NorthMain134   IWR_1S   126000   Left   \$2.77   32   31   1 structure   |           |            |              |        |     |          |       |           |               | 35 1 : | structure |
| R32778         Structures         NorthMain134         IWR_1S         129441 Left         \$15.35         36         35 I structure           R32801         Structures         NorthMain134         IWR_1S         129441 Left         \$50.29         36         35 I structure           R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 I structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 I structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 I structure   |           |            |              |        |     |          |       | \$5.95    | 36            | 35 1 : | structure |
| R32801         Structures         NorthMain134         IWR_1S         129441 Left         \$50.29         36         35 I structure           R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 I structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 I structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 I structure   |           |            |              |        |     | 126000 L | .eft  | \$11.76   | 32            | 31 1 9 | structure |
| R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 1 structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 1 structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 1 structure   |           |            |              |        |     | 129441 L | .eft  | \$15.35   | 36            | 35 1 9 | structure |
| R32817         Structures         NorthMain134         IWR_1S         126000 Left         \$16.95         35         34 1 structure           R33446         Structures         NorthMain134         IWR_1S         126000 Left         \$2.75         32         31 1 structure           R33447         Structures         NorthMain134         IWR_1S         126000 Left         \$2.77         32         31 1 structure   |           |            |              |        |     |          |       | \$50.29   |               | 35 1 5 | structure |
| R33447 Structures NorthMain134 IWR_1S 126000 Left \$2.77 32 31 1 structure  |           |            |              |        |     |          |       | \$16.95   | 35            |        |           |
| R33447 Structures NorthMain134   WR_1S   126000   Left   \$2.77   32   31   1 structure   |           |            |              |        |     | 126000 L | .eft  | \$2.75    | 32            | 31 1 8 | structure |
|   |           |            |              |        |     | 126000 L | .eft  | \$2.77    | 32            |        |           |
|   | R33454    |            |              | IWR_1S |     | 98000 F  | Right | \$75.85   | 34            |        |           |
| R33526 Structures NorthMain134 IWR_1S   126000 Left   \$58.37   36   35 1 structure   |           |            |              |        |     |          |       | \$58.37   | 36            |        |           |
| R33536 Structures NorthMain134 IWR_1S 126000 Left \$62.36 36 35 1 structure   | ₹33536    | Structures | NorthMain134 | IWR_1S | 3   | 126000 L | eft   | \$62.36   | 36            |        |           |

| Struc Nam | e Cat_name  | Stream_name  | Occ Name | Station | Bank | Struc Val | 1E Stone | Grnd_Stage Notes |
|-----------|-------------|--------------|----------|---------|------|-----------|----------|------------------|
| R34097    |             | NorthMain134 | IWR 1S   | 126000  |      | \$4.38    |          |                  |
| R34112    |             | NorthMain134 | IWR 1S   | 128000  |      |           | 32       | 31 1 structure   |
| R34120    |             | NorthMain134 | IWR_1S   |         |      | \$8.90    | 32       | 31 1 structure   |
| R34142    |             | NorthMain134 | IWR 15   | 151600  |      | \$0.50    | 42       | 41 1 structure   |
| R34143    |             |              |          | 124000  |      | \$9.07    | 36       | 35 1 structure   |
|           |             | NorthMain134 | IWR_1S   | 120000  |      | \$11.65   | 29       | 28 1 structure   |
| R34154    |             | NorthMain134 | IWR_1S   | 129441  |      | \$26.74   | 36       | 35 1 structure   |
| R34197    |             | NorthMain134 | IWR_1S   | 140000  |      | \$10.94   | 40       | 39 1 structure   |
| R34593    |             | NorthMain134 | IWR_1S   | 86000   |      | \$3.56    | 25       | 24 1 structure   |
| R34692    |             | NorthMain134 | IWR_1S   | 114000  |      | \$3.70    | 34       | 33 1 structure   |
| R34693    |             | NorthMain134 | IWR_1S   | 116000  | Left | \$16.90   | 33       | 32 1 structure   |
| R35188    | Structures  | NorthMain134 | IWR_1S   | 128000  |      | \$7.34    | 36       | 35 1 structure   |
| R35208    | Structures  | NorthMain134 | IWR_1S   | 126000  | Left | \$8.06    | 32       | 31 1 structure   |
| R35539    | Structures  | NorthMain134 | IWR_1S   | 126000  | Left | \$45.14   | 32       | 31 1 structure   |
| R35705    | Structures  | NorthMain134 | IWR_1S   | 126000  | Left | \$21.15   | 36       | 35 1 structure   |
| R35713    | Structures  | NorthMain134 | IWR_1S   | 128000  | Left | \$8.70    | 36       | 35 1 structure   |
| R35753    | Structures  | NorthMain134 | IWR_1S   | 126000  | Left | \$4.00    | 32       | 31 1 structure   |
| R35837    | Structures  | NorthMain134 | IWR 1S   | 128000  | Left | \$9.05    | 36       | 35 1 structure   |
| R35952    | Structures  | NorthMain134 | IWR 1S   | 102000  |      | \$50.47   | 32       | 31 1 structure   |
| R35997    | Structures  | NorthMain134 | IWR_1S   | 126000  |      | \$24.69   | 32       | 31 1 structure   |
| R36066    |             | NorthMain134 | IWR 1S   | 124000  |      | \$10.54   | 36       | 35 1 structure   |
| R36070    |             | NorthMain134 | IWR_1S   | 126000  |      | \$14.23   | 36       | 35 1 structure   |
| R36116    |             | NorthMain134 | IWR 1S   | 126000  |      | \$9.57    | 36       | 35 1 structure   |
| R36119    |             | NorthMain134 | IWR_1S   | 128000  |      | \$8.50    | 34       | 33 1 structure   |
| R36128    |             | NorthMain134 | IWR 1S   | 128000  |      | \$13.28   | 36       | 35 1 structure   |
| R36143    |             | NorthMain134 | IWR_1S   | 147159  |      | \$9.50    | 40       | 39 1 structure   |
| R36151    |             | NorthMain134 | IWR 1S   | 129441  |      | \$15.12   | 35       | 34 1 structure   |
| R36179    |             | NorthMain134 | IWR 1S   | 126000  |      |           | 32       |                  |
| R36180    |             |              |          |         |      | \$5.45    |          | 31 1 structure   |
|           |             | NorthMain134 | IWR_1S   | 134000  |      | \$20.25   | 35       | 34 1 structure   |
| R36182    |             | NorthMain134 | IWR_1S   | 122000  |      | \$6.30    | 31       | 30 1 structure   |
| R36183    |             | NorthMain134 | IWR_1S   | 136000  |      | \$3.46    | 35       | 34 1 structure   |
| R36185    |             | NorthMain134 | IWR_1S   | 129441  |      | \$12.80   | 35       | 34 1 structure   |
| R36228    |             | NorthMain134 | IWR_1S   | 96000   |      | \$6.57    | 26       | 25 1 structure   |
| R36233    |             | NorthMain134 | IWR_1S   | 152561  |      | \$2.60    | 46       | 45 1 structure   |
| R36258    |             | NorthMain134 | IWR_1S   | 128000  |      | \$2.72    | 36       | 35 1 structure   |
| R36276    |             | NorthMain134 | IWR_1S   | 126000  |      | \$11.99   | 35       | 34 1 structure   |
| R36277    | Structures  | NorthMain134 | IWR_1S   | 126000  |      | \$7.80    | 35       | 34 1 structure   |
| R36279    | Structures  | NorthMain134 | IWR_1S   | 129441  |      | \$15.23   | 36       | 35 1 structure   |
| R36288    |             | NorthMain134 | IWR_1S   | 153231  |      | \$3.82    | 39       | 38 1 structure   |
| R36302    | Structures  | NorthMain134 | IWR_1S   | 128000  | Left | \$5.36    | 36       | 35 1 structure   |
| R36400    | Structures  | NorthMain134 | IWR_1S   | 102000  | Left | \$8.60    | 31       | 30 1 structure   |
| R36401    | Structures  | NorthMain134 | IWR_1S   | 128000  | Left | \$7.22    | 33       | 32 1 structure   |
| R36431    |             | NorthMain134 | IWR_1S   | 88000   |      | \$3.00    | 30       | 29 1 structure   |
| R36432    |             | NorthMain134 | IWR_1S   | 88000   |      | \$11.40   | 30       | 29 1 structure   |
| R36442    |             | NorthMain134 | IWR_1S   | 144000  |      | \$13.25   | 38       | 37 1 structure   |
| R36489    |             | NorthMain134 | IWR_1S   | 128000  |      | \$9.72    | 36       | 35 1 structure   |
| R36543    |             | NorthMain134 | IWR_1S   | 126000  |      | \$4.68    | 34       | 33 1 structure   |
| R36662    |             | NorthMain134 | IWR 1S   | 88000   |      | \$2.16    | 27       | 26 1 structure   |
| R36663    |             | NorthMain134 | IWR 1S   | 88000   |      | \$0.97    | 26       | 25 1 structure   |
| R36664    |             | NorthMain134 | IWR_1S   | 80000   |      | \$3.46    | 25       | 24 1 structure   |
| R36709    |             | NorthMain134 | IWR_1S   | 102000  |      | \$6.82    | 31       | 30 1 structure   |
| R36711    | <del></del> | NorthMain134 | IWR_1S   | 128000  |      | \$1.08    | 36       | ·                |
| R36764    |             | NorthMain134 | IWR_1S   |         |      |           |          | 35 1 structure   |
|           |             |              |          | 128000  |      | \$1.96    | 33       | 32 1 structure   |
| R36769    |             | NorthMain134 | IWR_1S   | 128000  |      | \$5.69    | 36       | 35 1 structure   |
| R36777    |             | NorthMain134 | IWR_1S   | 126000  |      | \$19.34   | 36       | 35 1 structure   |
| R36779    |             | NorthMain134 | IWR_1S   | 128000  |      | \$44.37   | 36       | 35 1 structure   |
| R36780    | Structures  | NorthMain134 | IWR_1S   | 128000  | Left | \$1.71    | 36       | 35 1 structure   |

| Struc Name | Cat name   | Stream_name  | Occ        | Name | Station | Bank | Struc_Val | 1F_Stage | Grnd_Stage | Notes       |
|------------|------------|--------------|------------|------|---------|------|-----------|----------|------------|-------------|
|            |            | NorthMain134 | IWR        | 1S   | 86000   | Left | \$11.92   | 25       | 24         | 1 structure |
| R36791     |            | NorthMain134 | IWR        | 15   | 151600  | Left | \$28.63   | 42       | 41         | 1 structure |
|            |            | NorthMain134 | <b>IWR</b> | 18   | 126000  | Left | \$27.80   | 32       |            |             |
| R36811     |            |              | IWR        | 18   | 128000  | Left | \$3.05    |          |            | 1 structure |
|            | Structures | NorthMain134 | <b>IWR</b> | 1S   | 126000  | Left | \$5.00    |          |            | 1 structure |
| R36878     |            | NorthMain134 | <b>IWR</b> | 1S   | 128000  | Left | \$10.94   |          |            | 1 structure |
|            |            | NorthMain134 | IWR        | 18   | 126000  | Left | \$0.62    |          |            |             |
| R36898     | Structures |              | <b>IWR</b> | 1S   | 138000  |      | \$66.57   |          |            | 1 structure |
| R36899     | Structures | NorthMain134 | IWR        | 1\$  | 128000  | Left | \$10.89   |          |            |             |
| R36899     | Structures | NorthMain134 | IWR        | 1S   | 128000  | Left | \$10.89   |          |            | 1 structure |
| R36948     | Structures | NorthMain134 | IWR        | 1S   | 126000  | Left | \$12.16   |          |            | 1 structure |
| R36953     | Structures | NorthMain134 | IWR        | 18   | 134000  | Left | \$3.06    |          |            | 1 structure |
| R37306     | Structures | NorthMain134 | IWR        | 18   | 126000  | Left | \$9.42    | 36       | 35         | 1 structure |

North Main and Raymondville Drains Meeting Agendas, Sign-in Sheet, and Other Documents

#### HIDALGO COUNTY DRAINAGE DISTRICT NUMBER ONE

902 NORTH GOOLITTLE

COINBURG. TEXAS 78539

(956) 318-2843

FAX (956) 318-2638



October 15, 1999

Turner Collie & Braden
Attn..: Mr. John A. Espinoza, P. E., C.F.M.
6800 Park Ten Blvd., Suite 274 South
San Antonio, Texas 78213

Dear Mr. Espinoza:

Hidalgo County Drainage District No.1/ Willacy County are in the process of beginning preparations for the expansion of North Main / Raymondville Drain. This planning process is being brought about by the rapid growth within the Districts boundaries.

As in the preparation of the Hidalgo County Drainage District No. 1 Master Plan Phase I the participation by county wide elected officials, Irrigations District Board Members and private citizens was an essential part for the successful development of this project.

We look forward to seeing you at the scheduled "kick off meeting" at the following location:

DATE: OCTOBER 20, 1999
TIME: 6:00 PM
LOCATION: COMMISSIONERS COURTROOM
100 S. CLOSNER
EDINBURG, TEXAS 78539

If I can be of any assistance please feel free to contact me at (956) 318-2642.

Sincerely,

Godfrey Garza, Jr. District Manager

GG/ia

ng Cash Five numbers y by the Texas Lottery: 15-24-32-39

bay off for you in the

(April 20-May 20) ople with whom you today fairly, but inas well. Don't feel are with someone who legitimate contribu-

May 21-June 20) Be not a good day to try over anybody's eyes, If you want to make sion, be up front and alings.

(June 21-July 22) less talking could get trouble today, so red bromide that says. k ships" before you thout thinking.

23-Aug. 22) In areas the fine details are re, don't lock yourement today, thinkigs will take care of v won't.

ug. 23-Sept. 22) ainst gains today. If you might offend process of going afed to rethink ways u'll end up losing.

# **ANNOUNCEMENTS**

#### **ANNOUNCEMENTS**

### **ANNOUNCEMENT**

6-Legal Notices 6-Legal Notices 6-Legal Notices

#### North Main Drain/Raymondville Drain Project Meeting

Hidalgo County Drainage District Number One and Willacy County are in the process of developing a flood protection plan for an area consisting of the Raymondville Drain and the North Main Drain (South Main Drain) located in Hidalgo and Willacy Counties, Texas. The flood protection plan will includestructural alternatives to be investigated consist of a diversion of flows from the North Main Drain towards the Raymodville Drain, increasing the channel capacity of Raymondville Drain, levees for protection of the Raymondville area, and detention storage in Lake Edinburg and La Sal Vieja Lake. Non-structural alternatives include structural buy out, slab elevation of existing structures, and open spaces for flood storage.

In order to get input from local officials and private citizens, a "Kick-off Meeting" is scheduled from Wednesday, October 20 (), 6:00 PM, to be held at the Hidalgo County Commissioners Courtroom located at 100 S. Closner in Edinburg.

Should you have any questions concerning the project or meeting, contact Godfrey Garza, District Manager for the Drainage District at 956-318-2642.

#### NOTICE ...

NOTICE IS HEREBY GIVEN that Hidalgo County Irrigation District No. One (HCID#I) has declared as surplus and intends to convey to private sale that certain real property more particularly described as follows:

A Certain right of way out of Lot 16, Section 254, Tex- Mex (lateral 19, West of 3rd St., San Carlos)

(hereinafter "the Property"). The requirements and conditions of sale are set forth in a resolution adopted by the Board of Directors of HCID#1 at its regular meeting held on October 7, 1999, which may be reviewed by interested parties at the District's office. The Board of Directors will consider the conveyance of the Property by private sale at its regularly scheduled meeting occurring on or after the October 21, 1999.

Ry order of the Board of Disease - Carre

# BUSINESS SERVICES

30-Miscellaneous

Reasonable Prices Special. Kirby G-5-\$795.00 like new. Trade Ins accepted, Call 287-7044. Shampoo Hoover Vacs from \$99.95.

### **EMPLOYMENT**

38-Trades and Professions

BEAUTY PALAZE SALON Looking for hairstylist. Three year rience. Call 316-

### **RENTALS**

93-Houses Unfurnished

FOUR BEDROOMS. two baths, central air, stove & refrigerator fenced all around. Brick duplex 2222 Cypress off East Iowa Rd. Call 682-4915

HOUSE FOR rent. Two bedroom, brick house near UTPA. Refrigerator, stove, washer & dryer hook up and fenced back yard, \$500 month, \$250 deposit, call 956-383-7355.

ONE apartment for rent. Central air, stove & refrigerator. Washer & dryer connections. \$450 month, \$350 deposit. Available Jan. 1 381-9838, M-F.

TWO **BEDROOM** house for rent. \$300 month, \$150 deposit, no large families, Call 380-0672.

### **REAL ESTATE**

112-Groves, Farms, Ranches

#### 30 ACRES

Hunting Property South Texas Brush Country. Owner Fi-222004 B 1200 da....

# TurnerCollie & Braden Inc.

# **MEETING MINUTES**

Subject:

North Main / Raymondville Drain Public Kick-off Meeting

Job No.:

31-01001-001

Place:

Hidalgo County Commissioners Courtroom, Edinburg, Texas

Date of Mtg.: October 20, 1999; 6:00 p.m.

Attendees:

See Attached List

Date Prepared: 11/12/99

Prepared By: John A. Espinoza

The purpose of the Kick-off meeting was to obtain input from local officials and private citizens concerning the above-referenced project. In addition, the meeting was also used to present project scope of services and describe anticipated project final products.

For this meeting, letters were sent to various entities and officials informing them of the meeting. This meeting was also advertised in the *Edinburg Daily Review* newspaper on Tuesday, October 19, 1999. Copies of the letter (sent to John Espinoza) and the newspaper article are attached.

#### **Meeting Summary**

The following is a summary of the meeting/presentation:

Godfrey Garza started the meeting by thanking everybody for attending and introduction of some of the people attending the meeting. Approximately 20 people attended the meeting including two county commissioners, Gilbert Ward from the Texas Water Development Board (TWDB), representatives from various irrigation districts, some of the consultants, and TC&B staff. Godfrey stated that TC&B would be conducting the project with the assistance of five local consultants. He also noted that funding for this project was from the TWDB and from the Hidalgo County Drainage District Number 1.

Alan Potok then gave a brief description of previous drainage studies conducted for the project site area. Previous studies mentioned included the following:

- 1956 study conducted by the US Department of Interior
- 1975 Design and Construction of Major Drainage Channels
- 1995 study by Corps of Engineers

Alan's presentation included some proposed design characteristics and cost related to the Corps of Engineers 1995 study proposed modifications for the North Main Drain.

John Espinoza then presented the project scope of services including a brief description of each major task that will be conducted as part of the project. The description also included the role of each project team consultant and which task they would be conducting.

During the presentation, the following was noted:

- An advisory committee will be formed consisting of people from local entities including drainage districts, commissioners, etc.
- Future public meeting will be conducted to present project findings and recommendations.

Page 2

• Final products would consist of some form of preliminary plan and profile drawings.

### **Audience Comments**

The following are some of the comments received from the audience:

- Since the project covers a large area, Gilbert Ward (TWDB) requested that for future public meetings, we need to advertise in more than one newspaper in order to reach more people.
- People that live in the western portion of Hidalgo County could be paying taxes for the construction of a project that will be in the eastern part of the county.
- Any modifications proposed at the outfall of the Raymondville Drain could encounter some environmental concerns and design challenges.
- One of the commissioners requested that we need to make sure we get word of the project out to
  the general public. We need to make sure that the public is aware of what we are doing and what
  modifications are being proposed, since eventually they would be voting and paying for
  improvements.

Distribution: Godfrey Garza - HCDD1 Gilbert Ward - TWDB Alan Potok - TC&B File

### HIDALGO/RAYMONDVILLE MEETING OCTOBER 20, 1900 6 P.M.

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| Mana Bain  | 108 W. 18 St Egg. In                                 | 581-0147   |
| Probert Wind   | Types rites Developmen                               | 1 00   |
|  | R. Gutierrez Engr. Grp.                              | 788-2557   |
| Mario R. Jorge   | Tx Dot   | 702-6250   |
| RAMIRO GUTIERREZ   | R. GUMBEREZ ENKR. COPP.                              | 782-2557   |
| Jimmy Anthony  | HEIDTI   | 383 -3886  |
| Jim Riggian  | Willacy Co Driving D#                                | 347 5/64   |
| Long Kitagh  | El Saya Ranch  | 2485553  |
| Rudy Saverdo   | TC+B   | (956) 780-4100   |
| Afred & Salinas  | HCZ8H1   | 3837881  |
| Sem pell   | FENITAS PROGRATION                                   | 585-6482   |
| Durna Bell   | P. Box 653 Peintas                                   | 78576  |
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| OSCD-GARZA   | 1102 N Docl: Hle                                     | Edin TL  |
| Sichard Enport   | 1419 Manigold  | Mc Ally TX   |
| LARIZY L SMITH   | 115 W. MLINTIRE                                      | (SIDINBURG TX  |
| RAMU E. SESIN  | 910 N 23 MEST M4260                                  | 686 8304   |
| SONNY DINOSOSA   | POBONG SAN JUAN                                      | 9567871422   |
| Bularen  | Sanda Cry # 15                                       | 3333441  |
| Lava Hotina  | Santa (ny # 15<br>190 M. 3rd<br>Cithouas Kinjulle.   | 689-3393   |
| Simon Splines  | " " "  | 685-3323   |
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|  |  |  |

### **AGENDA**

North Main / Raymondville Drains

Advisory Committee Kick-Off

Time: 6:30 p.m.

Date: February 2, 2000

Location: Hidalgo County Commissioners Courtroom

Edinburg, Texas

### Introduction

### Purpose of Project

- Develop a Flood Protection Plan
- Proposed Modifications

### Watershed Description

### Background

### Project Team

- Turner Collie & Braden Inc.
- R. Gutierrez Engineering Corp.
- Hinojosa Engineering, Inc.
- Melden & Hunt, Inc.
- Sesin Engineering, Inc.
- Sigler, Winston, Greenwood & Associates, Inc.

### Scope of Services

- Preliminary Engineering Analysis
- Construction Cost Analysis
- Economic Evaluation
- Environmental Evaluation

### **Project Products**

- Hydrologic and Hydraulic Models
- Preliminary Design Report
- Field Reconnaissance

### Funding of Project

- Texas Water Development Board
- Hidalgo County Drainage District Number One

### **Project Status**

- Public Meeting
- Modeling Results

### Project Schedule

### North Main / Raymondville Drain **Advisory Committee Meeting** February 2, 2000; 6:30 p.m. Sign In Sheet

| Name              | Group             | Address             | Phone Number |
|-------------------|-------------------|---------------------|--------------|
| teller James      |                   | 9075 (oge) Plane    | 787-2277.    |
| Acturo/ gras. Vr. | •                 | 108 N. Cayo Phor    |              |
| Landy Winston     | SWG Fais          |                     |              |
| Micardo Cirella   | Det 2             | BOIE. State Ph.     | 787-1891     |
| Beto Salerai      | 2011 H Enas       | reity of mission    | N 580-86     |
| Jan Max           | MHI               | 115 W. WELNTYRE     | 381-0981     |
| RAUL E. GESIN     | GEYIN ENG         | 9120 N 23RD MYALLEN |              |
| Golfreghaders     | H.C.D.D. M. 1     | GOL N. Dooloth      | 318-2642     |
| John A. Espinoza  | TCAB              |                     |              |
| Alon Potok        | TC+B              |                     |              |
| Osca Goiza        | Commission Pet. 4 |                     |              |
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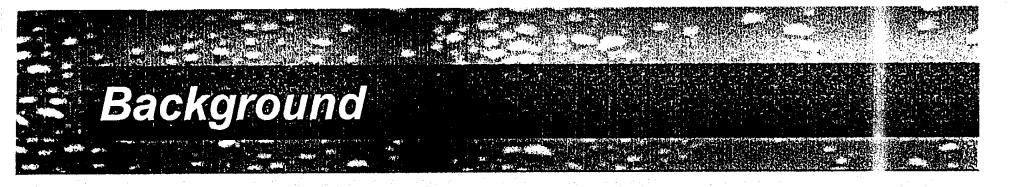


### Hidalgo County Drainage District #1 Texas Water Development Board Willacy County

Presented by Turner Collie & Braden Inc.



- Develop a Flood Protection Plan
- Proposed Modifications
  - Diversion Channel
  - Raymondville Drain Channel Modification
  - Levee for Raymondville
  - Detention Storage (Lake Edinburg and La Sal Vieja)



- 1956 Study by US Department of Interior
- 1975 Design and Construction of Major Drainag€ Channels
  - 9 1/2 Year Design Capacity
- 1995 study by US Army Corps of Engineers
  - 5 Year Design
  - Widen and Deepen North Main and Santa Cruz, and Divesion to IBWC North Floodway (\$131,618,600)
  - Widen and Deepen North Main and Santa Cruz (\$187,686,300)
- HCDD#1 Initiates Regional Drainage Approach
- 1999 TWDB Approves Planning Grant

# Watershed Description

- Raymondville Drain
- Drainage Area Approximately 348 Square Miles
- Length 45 Miles
- North Main Drain
- Drainage Area Approximately 684 Square Miles
- Length 63 Miles
- Population 500,000 Persons

- 1956 Study by US Department of Interior
- 1975 Design and Construction of Major Drainage Channels
- 9 1/2 Year Design Capacity
- 1995 study by US Army Corps of Engineers
- 5 Year Design
- Widen and Deepen North Main and Santa Cruz, and Divesion to IBWC North Floodway (\$131,618,600)
  - Widen and Deepen North Main and Santa Cruz (\$187,686,300)
- HCDD#1 Initiates Regional Drainage Approach
  - 1999 TWDB Approves Planning Grant

## Scope Of Services

- Preliminary Engineering Analysis
- Structural
- Non-structural
- Construction Cost Analysis
- Economic Evaluation
- **Environmental Evaluation**

## Project Products

- Series of Hydrologic/Hyrdraulic Models
- Preliminary Design Report
- Field Reconnaissance Results

### Confreso

### HCDD#1

### \$ 78,000

## TWDB Planning Grant

\$300,000

# HCDD#1 in-kind services

TOTAL PROJECT COST



- R. Gutierrez Engineering Corp.
  - Construction Cost Analysis
  - Economic Evaluation
- Hinojosa Engineering, Inc.
  - Preliminary Engineering Analysis
- Melden & Hunt, Inc.
  - Preliminary Engineering Analysis
  - Economic Evaluation
  - Environmental Evaluation

- Sesin Engineering, Inc.
  - Preliminary Engineering Analysis
- Sigler, Winston, Greenwood, & Associates, Inc.
  - Preliminary Engineering Analysis
  - Economic Evaluation
  - Environmental Evaluation

## Project Status

- Public Meetings
- Modeling Results

902 NORTH DOOUTTLE

EOINBURG, TEXAS 78538

(956) 318-2643

FAX (956) 318-2639



### **MEMO**

DATE:

**JANUARY 19, 2000** 

TO:

**BILL BURNS** 

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

COMMISSIONERS COURT ROOM

100 S. CLOSNER

EDINBURG, TEXAS 78539

902 NORTH COQUITTLE

EDINBURG, TEXAS 78539

(956) 318-2643

FAX (956) 318-2639



### **MEMO**

DATE:

JANUARY 19, 2000

TO:

ALFONSO QUINTANILLA- QUINTANILLA, HEADLEY & ASSOC.

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

**COMMISSIONERS COURT ROOM** 

100 S. CLOSNER

EDINBURG, TEXAS 78539

902 NOATH DOOLITTLE

EDINBURG, TEXAS 78539

(858) 318-2843

FAX (956) 316-2639



### **MEMO**

DATE:

JANUARY 19, 2000

TO:

HECTOR GUERRA - GUERRA CONSTRUCTION

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

COMMISSIONERS COURT ROOM

100 S. CLOSNER

EDINBURG, TEXAS 78539

302 NORTH DOOLITTLE

EDINBURG, TEXAS 78539

(958) 318-2643

FAX (956) 316-2639



### **MEMO**

DATE:

JANUARY 19, 2000

TO:

CARL SCHUSTER

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

COMMISSIONERS COURT ROOM

100 S. CLOSNER

EDINBURG, TEXAS 78539

902 NORTH DOOLITTLE

EDINBURG, TEXAS 78539

(856) 318-2643

FAX (956) 318-2639



### **MEMO**

DATE:

**JANUARY 19, 2000** 

TO:

VONA WALKER - LAND ACQUISITION COORDINATOR

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

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902 NORTH COOLITTLE

EDINBURG, TEXAS 78539

(956) 318-2643

FAX (956) 318-2639



### **MEMO**

DATE:

JANUARY 19, 2000

TO:

RICHARD RUPERT-SANTA CRUZ LAND SALES

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

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100 S. CLOSNER

EDINBURG, TEXAS 78539

#02 NORTH COOLITTLE

EDINBURG, TEXAS 78539

(958) 318-2643

FAX (956) 318-2639



### **MEMO**

DATE:

JANUARY 19, 2000

TO:

NORBERTO SALINAS - MAYOR, CITY OF MISSION

**COMMITTEE MEMBER** 

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

COMMISSIONERS COURT ROOM

100 S. CLOSNER

EDINBURG, TEXAS 78539

902 NORTH DOCLITTLE

EDINBURG, TEXAS 78539

(858) 318-2643

FAX (956) 318-2639



### **MEMO**

DATE:

JANUARY 19, 2000

TO:

OTHAL BRAND

COMMITTEE MEMBER

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR -THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

COMMISSIONERS COURT ROOM

100 S. CLOSNER

EDINBURG, TEXAS 78539

SOR NORTH DOOLITTLE

EDINBURG, TEXAS 78539

(856) 316-2643

FAX (956) 318-2639



### **MEMO**

DATE:

**JANUARY 19, 2000** 

TO:

OSCAR GARZA

COMMISSIONER PCT. 4

FROM:

GODFREY GARZA, JR.

DISTRICT MANAGER

RE:

RAYMONDVILLE DRAIN

A COMMITTEE MEETING IN REFERENCE TO THE ABOVE HAS BEEN SET FOR THE FOLLOWING DATE AND TIME.

DATE:

FEBRUARY 2, 2000

TIME:

6:30 P.M.

PLACE:

COMMISSIONERS COURT ROOM

100 S. CLOSNER

EDINBURG, TEXAS 78539

Christins S. Morley,

MOBLEY

sequipeses se passeuppes:

the attorney for the Estate

Claims may be presented in care of

Conuty, Texas, to: CHRISTINE S.

Court at Law No. Three of Hidalgo

No. 28,230 pending in the County

day of November, 2001, in Docket

Deceased, were issued on the 6th

original Letters Testamentary for the Estate of WILMA E. SCHUSTER,

Notice is hereby given that the

NOTICE TO CREDITORS

State Dat No.: 08581400

Attorney for the Estate

By: David J. Guerrero

McAllen, Texas 78501

308 North 15th Street

actibed by law.

NOSNIA

BHISTORIA ZSICHBISTH

**МЕХЕЯ & GUERRERO,** L.L.P.

DATED This 7th day of November,

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McAllen, Texas 78501

308 NORTH 15th Street

WELL IR YOUTOTIA

cho David J. Guerrero

the afformey for the Estate addressed

Claims may be presented in care of

Executor is Hidalgo County, Texas;

The address of the independent

Texes, to: SAN JUANITA GARCIA-

Countai-Law of Hidalgo County,

No. 28,255, pending in the County

isaned on November 5, 2001 in Cause

MARIA G GARCIA, Deceased, were

Letters Testamentary for the Estate of

Notice is hereby given that original

NOTICE TO CREDITORS

LEDEZHAS HOUSE LIMITED

as follows:

the attorney for the Estate addressed

Claims may be presented in care of

Executor is Hidalgo County, Texas;

The address of the Independent

HEHMA ANN JACKSON GAVENDA.

at-Law of Hidalgo County, Texas, to:

28,222, pending in the County Court-

October 31, 2001 in Cause No.

HEVELL, Decembed, were issued on

ENGENE 1. HEVELL ANVA GENE J.

Letters Testamentary for the Estate of

Notice is hereby given that original

**NOLICE LO CHEDILOBE** 

the Hidalgo County Drainage District

Godfrey Garza, Diethot Manager for

the project or meeting, please contact

If you have any questions concerning

ect results and proposed afternatives.

-forg eauselb of 8 gaiteem editio exog

100 S. Cleaner in Edinburg. The pur-

Commissioners Courtroom located at

PM, to be held at the Hidalgo County

for Wednesday, November 28, 1:30

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Hidalgo County Drainage District

Disin Project Meeting Notice

North Main Drain/Raymondville

Legal Notice

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CONTACT: AL

**INBBAN COUNT** 

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### TurnerCollie@BradenInc.

Flood Protection Plan North Main and Raymondville Drains

Public Meeting Sign-in Sheet

Date:

November 28, 2001

Place:

Hidalgo County Commissioners Court Room



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| 16. Afric Carley HCDD #1  17.  18.  19.  |   |
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|  |   |
|  | 19.   |
|  | 20.   |

### Presentation

### FLOOD PROTECTION PLAN NORTH MAIN AND RAYMONDVILLE DRAINS

Hidalgo County Drainage District No. 1
Willacy County
Texas Water Development Board

# Purpose of Project

- Develop a Flood Protection Plan
- Proposed Modifications Evaluated
- Diversion Channel
- Raymondville Drain Channel Modifications
- Levee for the City of Raymondville
- Stormwater Detention

### Watershed Description

- Raymondville Drain
  - Drainage Area 346 Square Miles
  - Length 44 Miles
- North Main Drain
  - Drainage Area 668 Square Miles
  - Length 63 Miles
- Total Drainage Area 1,014 Square Miles
- Population 500,000 Persons

### **Project Summary**

- Reviewed Previous Drainage Studies
  - Numerous Drainage Studies (10)
  - > U.S. Army Corps of Engineers
  - Original Study 1956
  - Revised Hidalgo County FIS April 2001
- Field Reconnaissance
  - Watershed Characteristics
  - Channel Crossings and Drainage Structures
  - > Photographs

- Topographic Information
  - Digital Topography (North Main)
  - U.S.G.S. Topography
  - Design & Construction Drawings
  - Field Surveys (Lake Edinburg and La Sal Vieja)
- Hydrologic Analysis
  - Existing & Future Development
  - Developed HEC-1 Models Using Revised Hidalgo County FIS Models
  - > 2-, 5-, 10-, 25-, 50-, 100-, 250-, and 500-year Storms

- Hydraulic Analysis
  - > HEC-RAS Models
    - North Main Drain
    - Raymondville Drain
    - Proposed Diversion Channel
- Economic Evaluation
  - Determine if Proposed Flood Protection Plan Would Have Economic Benefit
  - Annual Flood Losses Determined Using HEC Flood Damage Analysis Program (HEC-FDA)
  - Agriculture Benefits From Previous Studies

- Environmental Evaluation
- Extent of Environmental Mitigation/Future Needs
- Considered:
- Land Use
- Surface Water
- Vegetation
- **Endangered Species**
- Hazardous Materials
- Site Reconnaissance

### Alternatives

- > Structural Alternative
  - Channel Modifications
    - ✓ Diversion Channel
    - ✓ North Main to Raymondville Drain

|             |               | Average             | Average      |
|-------------|---------------|---------------------|--------------|
| % Diversion | <u>Length</u> | <b>Bottom Width</b> | <u>Depth</u> |
| 10%         | 63,500 feet   | 20 feet             | 15 feet      |
| 25%         | 63,500 feet   | 6-25 feet           | 15 feet      |
| 50%         | 63,500 feet   | 15-20 feet          | 15 feet      |

- Stormwater Detention
  - Diversion Channel
  - ➤ La Sal Vieja
  - Lake Edinburg
- Levee
  - > Raymondville
- Non-Structural Alternative
  - ➤ Buy-Out
  - > Flood Proofing

### Conclusion

- Computed 100-year Flows and Floodplain Less Than Considered to Be Effective by FEMA
- Three Diversion Channel Options Evaluated
- 50% Diversion Channel Option Most Benefit
- Lake Edinburg Can Not Be Used for Stormwater Detention (Gravity)
- Stormwater Detention Improves La Sal Vieja Water Quality
- Levee Not Required for City of Raymondville

### Recommendations

- Continue to implement HCDD1 Drainage Criteria
- 50% Diversion Channel Option
  - Stormwater Detention
    - (Diversion Channel and La Sal Vieja)
  - ➤ Total Project Cost \$31,777,700
  - > Total Annual Benefit \$276,609
  - Benefit Cost Ratio 0.13
  - Current and Future Development

## Recommendations (Cont'd)

- Develop Detailed Topography
  - > Raymondville Drain
  - > Diversion Channel Alignment
  - > Existing Channel Crossings
- Future Analysis
  - Verify Project Assumptions
  - > Lateral Channels
  - ➤ Modify Models
  - ➤ Letter of Map Revision

## Recommendations (Cont'd)

- HCDD1 Compliance with EPA's
  - > National Pollutant Discharge Elimination System
  - > Notice of Intent
  - > Stormwater Pollution Prevention Plan

## Proposed Alternative Summary

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|---|--|--|---|--|--|
| Description   | 10% Diversion<br>Option  | 25% Diversion<br>Option  | 50% Diversion<br>Option   |  |  |
| Diversion Channel   | THE TANK OF THE PARTY OF THE PA     | and committee of the second contraction and second contraction of the  |   |  |  |
| Channel Length (feet)   | 63,500   | 63,500   | 63,500  |  |  |
| Channel Slope   | 0.005  | 0.0005   | 0.0005  |  |  |
| Channel Reach - Station 2335+00 to 2625+00  | <ul> <li>de l'ambignoré modification des préparations de partie de la restricte trème en montrette.</li> </ul>   | পাৰ্কাৰৰ কৰা আৰাহ্যক্ষিত নিৰ্দাৰ কিবলৈ শাক্ষাকৰাৰ হৈ ১১১৯ শাক্ষাক্ষ সংগ্ৰহ ১ কাছৰ হৈছিল। এই উচ্চ ।   | ം അഭ്യത്ത്തെ വി - നാമ്പാവസ് പ്രത്യാൻ മർവിന് ബായ്മ് വേണ്ടത്ത് വിത്യവ് എന്നെ  |  |  |
| Bottom Width (feet)   | 20   | 25   | 20  |  |  |
| Side Slopes (horizontal:vertical)   | 3:1  | 3:1  | 3:1   |  |  |
| Channel Reach - Station 2625+00 to 2970+00  | . — «к ийта по байбе вого болмен». Ораз два прогудатурат и премунувания зарага повышару двугура  | A Grave Landing than copy (1985) (Algebraids Laters - Warners and Michigan (1987) (1994) (1994) (1994) (1994)  | to the entropy of the confidence $(\omega_0,0)$ , $(\psi(0),0)$ . We show that $(\omega_0,0)$ and $(\psi(0),0)$ |  |  |
| Bottom Width (feet)   | VShape   | 6 - 1985-1985-1985-1985-1985-1985-1985-1985-   | 15  |  |  |
| Side Slopes (horizontal:vertical)   | 2:1  | 3:1  | 3:1   |  |  |
| Excavation (cubic yards)  | 4,500,000  | 4,750,000  | 4,900,000   |  |  |
| Required Right-of-Way (acres)   | 159  | 196  | . <b>196</b><br>25, pauli (1960)<br>25, pauli (1970) 25 de 1980 (1980)  |  |  |
| La Sal Vieja Control Structure  |  |  | - अर्थन्यात्रस्य स्थापनान्त्रस्य स्थापनान्त्रस्य स्थापनान्त्रस्य स्थापनान्त्रस्य स्थापनान्त्रस्य स्थापनान्त्रस  |  |  |
| Controls flows between Raymondville   | 1 each   | 1 each   | 1 each  |  |  |
| Drain and La Sal Vieja Lake   | <ul> <li>Может сибтем с станов предоставления в предоставления в подражения в</li></ul> | and productification or relation of the transfer and relationship to the second and explosion of the second and ex | eath Leighning (Augusta) dann eath chonn an aire an aire an aire an aire an aire an aire an aire an aire an ai<br>Chonn an Aire an Aire an Aire an aire an aire an aire an aire an aire an aire an aire an aire an aire an aire   |  |  |

## Proposed 10% Diversion Option Cost

| 002,528,72\$             |              | JATOT GNA  | ION OPTION GR | PROPOSED 10% DIVERS  |
|--------------------------|--------------|------------|---------------|--|
| 008' <del>1</del> 60'E\$ | %SI          | F2°        |               | ENCINEERING  |
| 00+'97I' <del>/</del> \$ | 70%          | r?         |               | CONTINGENCIES  |
| 000'7£9'07\$             | JATOT        | CLION SOB. | TION CONSTRI  | PROPOSED 10% DIVERSION OF  |
| 000,758,2\$              | 19.0\$       | X.Z        | 000,007,4     | Hydromulching  |
| 000'005\$                | 00.000,002\$ | I°2.       | I             | La Sal Vieja Structure (approximate)                             |
| 000,020,1\$              | 00.000,02\$  | A.C.       | 18            | V-ditch (no bottom width) Required Right of Way                  |
|                          |              |            |               | Side Slopes 2:1 (horizontal:vertical)                            |
|                          |              |            |               | From 2625+00 to 2970+00  |
| 000'095'1\$              | 00.000,02\$  | .D.A       | 82            | Bottom Width: 20 feet<br>Required Right of Way                   |
|                          |              |            |               | From 2335+00 to 2625+00<br>Side Slopes 3:1 (horizontal:vertical) |
| \$14,085,000             | £1.E\$       | CK         | 000,000,4     | Channel Excavation   |
|                          |              |            | <del> </del>  | PROPOSED 10% DIVERSION OPTION                                    |
| 180D                     | Jao Jin U    | 1inU       | Quantity      | Description  |

TurnerCollie & Braden Inc.

## Proposed 25% Diversion Option Cost

| Description                           | Quantity      | Unit             | Unit Cost    | Cost         |
|---------------------------------------|---------------|------------------|--------------|--------------|
|                                       |               |                  |              |              |
| PROPOSED 25% DIVERSION OPTION         |               |                  |              |              |
| Construction                          |               |                  |              | ·····        |
| Channel Excavation                    | 4,750,000     | C.Y.             | \$3.13       | \$14,867,500 |
| From 2335+00 to 2625+00               |               |                  |              |              |
| Side Slopes 3:1 (horizontal:vertical) |               |                  |              |              |
| Bottom Width: 25 feet                 | · · · · · -   |                  |              |              |
| Required Right of Way                 | 86            | A.C.             | \$20,000.00  | \$1,720,000  |
| From 2625+00 to 2970+00               |               |                  |              |              |
| Side Slopes 3:1 (horizontal:vertical) | `             |                  |              |              |
| Bottom Width: 6 feet                  |               |                  |              |              |
| Required Right of Way                 | 110           | A.C.             | \$20,000.00  | \$2,200,000  |
| La Sal Vieja Structure (approximate)  | 1             | L.S.             | \$500,000.00 | \$500,000    |
| Hydromulching                         | 6,300,000     | S.Y.             | \$0.61       | \$3,843,000  |
| PROPOSED 25% DIVERSION C              | PTION CONSTR  | L<br>RUCTION SUB | <br>  TOTAL  | \$23,130,500 |
|                                       |               |                  |              |              |
| CONTINGENCIES                         |               | L.S.             | 20%          | \$4,626,100  |
| ENGINEERING                           |               | L.S.             | 15%          | \$3,469,600  |
| PROPOSED 25% DIVER                    | SION OPTION G | RAND TOTAL       |              | \$31,226,200 |

# Proposed 50% Diversion Option Cost

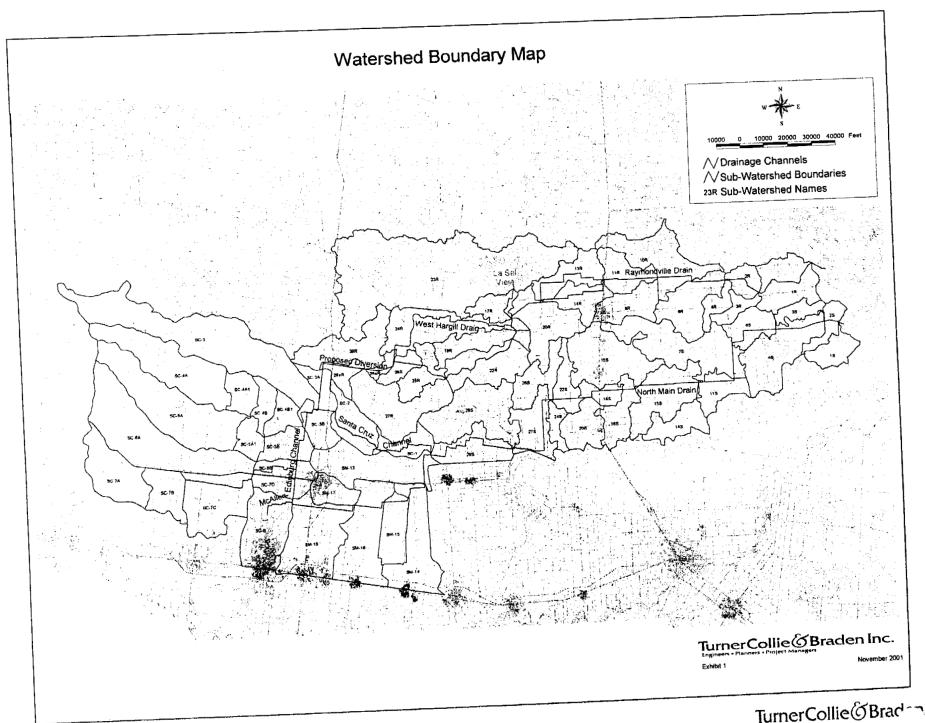
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| 200'00\$     | 00:000100.55 |            |  | . 1-1  |
| VO 0022      | 00.000,002\$ | L.S.       | I  | a Sal Vieja Structure (approximate)  |
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|              |              |            |  | Construction   |
|              |              |            |  | PROPOSED 50% DIVERSION OPTION  |
| 1600         |              |            |  |  |
| Cost         | Unit Cost    | inU        | Quantity   | Description  |

## Results of Structural Damage Analysis

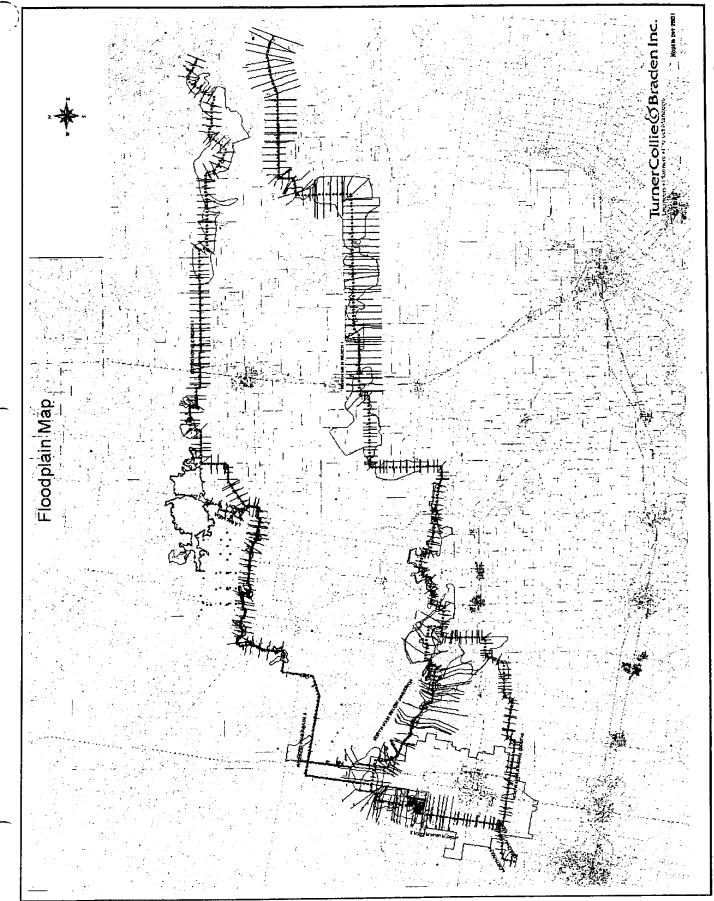
|                             | Station Range  |  |            | Average Annual Equivalent Damages  |                 |  |  |                                       |
|-----------------------------|--|--|------------|--|-----------------|--|--|---------------------------------------|
| Stream                      | Stream Name  | Reach  | Downstream | Upstream   | Without Project | 10% Diversion  | 25% Diversion                          | 50% Diversion                         |
| La Sal Vieja                | LaSalVieja   | Reach 1  | 1000       | 15060  | \$0             | \$0  | \$0                                    | \$0                                   |
| North Main                  | NorthMain134   | Reach 1  | 0          | 233824   | \$210,120       | \$196,430  | \$176,920                              | \$161,380                             |
|                             | NorthMain 134  | Reach 3  | 233825     | 315796   | \$76,690        | \$74,690   | \$73,370                               | \$72,450                              |
|                             | NorthMain134   | Reach 4  | 315797     | 331370   | \$0             | \$0  | \$0                                    | \$(                                   |
|                             | NorthMain2BD   | Below Diversion  | 48450      | 112500   | \$47,820        | \$37,090   | \$24,240                               | \$15,520                              |
|                             | NorthMain2BD   | Reach 2  | 112501     | 157900   | \$13,990        | \$12,030   | \$9,020                                | \$6,640                               |
| Raymondville                | Raymondville 128   | Reach 1  | 0          | 109185   | \$4,380         | \$4,370  | \$4,370                                | \$4,370                               |
|                             | Raymondville 128   | Reach 2  | 109186     | 164919   | \$0             | \$1,060  | \$0                                    | \$10                                  |
|                             | Raymondville 128   | Reach 8  | 164920     | 296300   | \$90            | \$51,230   | \$46,410                               | \$12,530                              |
|                             | Raymondville 3   | Reach 3  | 110270     | 144530   | \$170           | \$170  | \$170                                  | \$200                                 |
|                             |  | 2  |            | and the second of the second   |                 | A STATE OF THE STA | Angers, a service years to come extent | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| <b>Total Annual Damages</b> | e de la companya della companya dell | For a section of the state of the section of the se |            | W 2 10 1 21 21 25 25 25 35 37 37 37 37 37  | \$353,260       | \$377,070  | \$334,500                              | \$273,100                             |
|                             | The second secon |  | \$         | and the second s |                 | -\$23,810  | \$18,760                               | \$80,160                              |

## Results of Agricultural Benefit Analysis

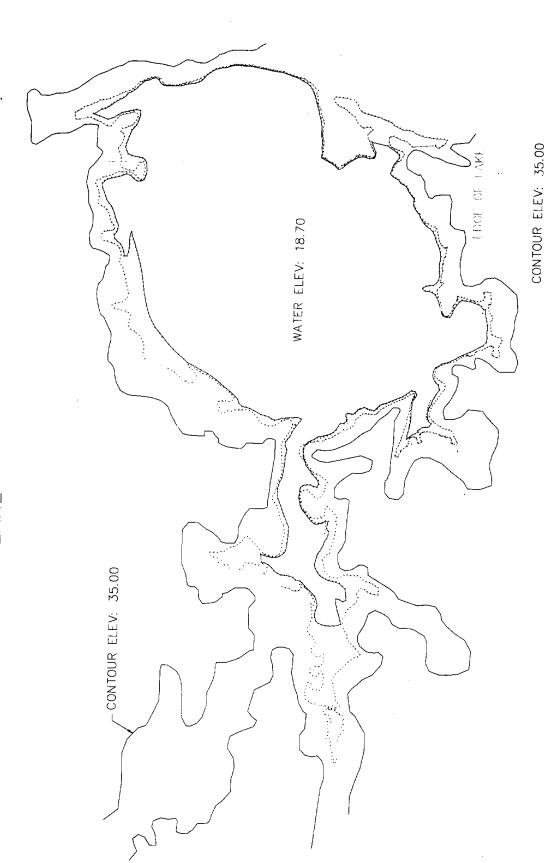
|                 | 500-Year   | Reduction in Adjusted Annual Unit Benefit |           |           |  | Total Annual Benefit |   |                      |  |
|-----------------|------------|---|-----------|-----------|--|----------------------|---|----------------------|--|
|                 | Floodplain | Floodplain                                | Cameron   | Arroyo    | Average  | Cameron              | Arroyo  | Average              |  |
| Alternative     | Area       | Area                                      | County    | Colorado  | Unit Benefit   | County               | Colorado  | <b>Total Benefit</b> |  |
|                 | (Acres)    | (Acres)                                   | (\$/acre) | (\$/acre) | (\$/acre)  | (Dollars)            | (Dollars)   | (Dollars)            |  |
| Without Project | 77,728     |   |           |           | e construire de la constitución de la constitución de la constitución de la constitución de la constitución de |                      | entituteriamistis aminis aminis (den eficialiste delabatetare). |                      |  |
| 10% Diversion   | 77,440     | 288                                       | \$40      | \$58      | \$49   | \$11,401             | \$16,730  | \$14,065             |  |
| 25% Diversion   | 75,011     | 2,717                                     | \$40      | \$58      | \$49   | \$107,658            | \$157,981   | \$132,819            |  |
| 50% Diversion   | 73,709     | 4,019                                     | \$40      | \$58      | \$49   | \$159,219            | \$233,644   | \$196,432            |  |

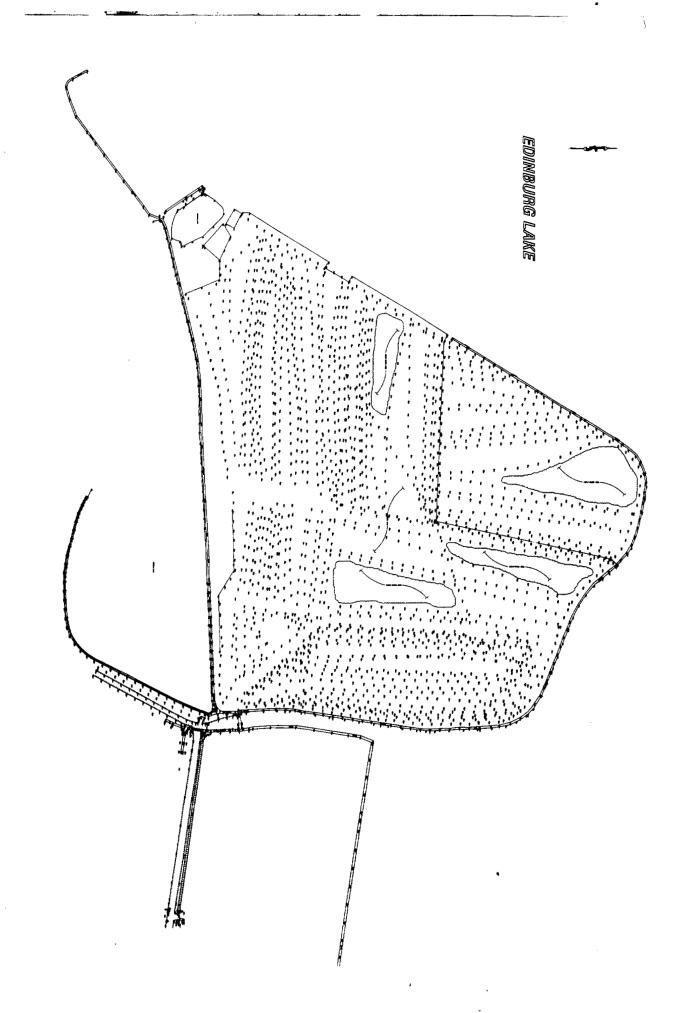


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Engineers • Planners • Project Managers

6800 Park Ten Blvd., Suite 180S San Antonio, Texas 78213 210 296-2000 Fax 210 296-2025

June 4, 2001

TC&B Job No. 31-01001-001 North Main / Raymondville Drains

Mr. Godfrey Garza District Manager Hidalgo County Drainage District Number One 902 North Doolittle Edinburg, Texas 78539

RE: Submittal of Draft Final Report for the

Flood Protection Plan for the North Main and Raymondville Drains

Dear Mr. Garza:

Attached for your review are seven copies of the Draft Final Report for the North Main and Raymondville Drains drainage investigation. The purpose of the investigation was to evaluate alternatives for a cost effective flood protection plan that alleviates flooding in sections of Hidalgo and Willacy Counties, Texas. The drainage investigation considered both structural and non-structural alternatives and future development in Hidalgo County.

All tasks as required by our project contract have been completed and results are reflected in the attached report except results for the Economic Evaluation task. We are currently finalizing Economic Evaluation results, in which we will then submit to your office. Also attached is one CD containing the latest versions of HEC-1 and HEC-RAS models.

After your review, we need to schedule a meeting with the Advisory Committee to present project findings and recommendations. Once a meeting date has been selected I can contact Gilbert Ward, Texas Water Development Board (TWDB), and Alan Potok to inquire if they are available to attend. Prior to the meeting, we will also need to publish a "meeting notice" in the local newspaper.

If you have any questions or need additional information please call me at 210-296-2009.

JOHN A. ESPINOZ

Very truly yours,

John A. Espinoza, P.E., C.F.M.

John O. Exinoxi

Project Manager

Attachments

cc: Mr. Gilbert Ward, TWDB (One copy of report)

Mr. Alan J. Potok, P.E., (One copy of report)

Engineers • Planners • Project Managers

6800 Park Ten Blvd., Suite 180S San Antonio, Texas 78213 210 296-2000 Fax 210 296-2025

September 20, 2001

TC&B Job No. 31-01001-001 North Main / Raymondville Drains

Mr. Godfrey Garza District Manager Hidalgo County Drainage District Number One 902 North Doolittle Edinburg, Texas 78539

RE: Flood Protection Plan for the North Main and Raymondville Drains
Revised Report and Response to S&B Infrastructure Review Comments

Dear Mr. Garza:

Enclosed for your review are two copies of revised report sections for the Flood Protection Plan for the North Main and Raymondville Drains project. Revised report sections include report text (Table of Contents, Sections I – VI), tables, exhibits, and Appendix E. Also enclosed is a CD containing revised computer models. This revised report addresses comments as discussed during the meeting conducted August 24, 2001 in the office of S&B Infrastructure. This report also addresses report review comments prepared by S&B in three attachments (copies enclosed). This letter serves as our response to S&B report review comments.

#### RESPONSE TO S&B REPORT REVIEW COMMENTS

We are responding to each comment as follows:

#### General Comments (S&B Attachment 1)

Comment 1: Task 1 – Public Management and Public Involvement – Regarding referencing meetings in the report and attaching meeting minutes.

• Response: Copies of meeting agendas, handouts, and minutes for all meetings conducted to date (two) were handed out during the August 24 meeting. Report Appendix E also includes copies of these meeting documents.

Comment 2: Task 1 – Public Management and Public Involvement – Regarding referencing quarterly meeting notes from Project Advisory Committee meetings and listing of names and positions of committee members.

• Response: Project Advisory Committee members were based on individuals that were suggested by the Drainage District. Due to developments of the project, meetings were not conducted on quarterly time intervals. It is our plan to conduct a meeting with the Advisory Committee once the report has been finalized. Report Appendix E includes copies of all meeting documents including attendee listing.

Engineers • Planners • Project Managers

6800 Park Ten Blvd., Suite 180S San Antonio, Texas 78213 210 296-2000 Fax 210 296-2025

September 20, 2001

TC&B Job No. 31-01001-001 North Main / Raymondville Drains

Mr. Godfrey Garza District Manager Hidalgo County Drainage District Number One 902 North Doolittle Edinburg, Texas 78539

RE: Flood Protection Plan for the North Main and Raymondville Drains Revised Report and Response to S&B Infrastructure Review Comments

Dear Mr. Garza:

Enclosed for your review are two copies of revised report sections for the Flood Protection Plan for the North Main and Raymondville Drains project. Revised report sections include report text (table of Contents, Sections I – VI), tables, exhibits, and Appendix E. Also enclosed is a CD containing revised computer models. This revised report addresses comments as discussed during the meeting conducted August 24, 2001 in the office of S&B Infrastructure. This report also addresses report review comments prepared by S&B and presented in three attachments (copies enclosed). This letter serves as our response to S&B report review comments.

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Mr. Godfrey Garza September 20, 2001 Page 2

Comment 3: Task 2 - Engineering Evaluation - Field Reconnaissance - Regarding project photographs of existing key channel sections.

Response: Copies of photographs and a cross-reference listing referencing their location were distributed during the August 24 meeting. The photos were presented electronically (on CD) for the Raymondville Drain and on 4"x6" photos for the North Main Drain. Report Appendix A also includes a copy of the photograph cross-reference listing.

Comment 4: Task 2 - Engineering Evaluation - Survey Requests - Regarding field survey data and/or field book information, and a listing of recorded high water marks from residents and industries.

• Response: Electronic field topographic survey data was originally submitted to your office on June 4, 2001 as part of the submittal of the draft report. We are in the process of requesting original field book information from Sesin Engineering. Once field data has been obtained, data will be submitted to your office. There are no records of any recorded high water marks from residents and industries, and thus, are not included in the report.

Comment 5: Task 2 - Engineering Evaluation - Regarding preliminary schematics for alternatives depicting right of way requirements, utility constraints, and structural locations, and the evaluation of any improvements to the existing channels downstream of the diversion channel and to the Laguna Madre.

• Response: New Report Table 11 presents a listing of right-of-way requirements for the proposed diversion channel right-of-way requirements and new Report Exhibit 6 presents a schematic of right-of-way reaches. No improvements are proposed for the channels downstream of the diversion channel or to the Laguna Madre.

Comment 6: Task 2 - Engineering Evaluation - Task review comments are documented in S&B's Attachment 2.

• Response: Please refer to responses for Attachment 2 for this comment.

Comment 7: Task 3 – Economic Reevaluation – Task review comments are documented in S&B's Attachment 3.

• Response: Please refer to response for Attachment 3 for this comment.

Comment 8: Task 4 - Environmental Evaluation - Regarding contacting various resource agencies.

• Response: During the project, we conducted telephone conversations with representatives with the TNRCC and the U.S. Department of the Interior Fish and Wildlife Service to discuss the project. Report Section VI now includes a summary of these telephone conversations.

Comment 9: Task 4 - Environmental Evaluation - Regarding environmental evaluation of Laguna Madre and other areas.

Response: This issue was discussed during the August 24 meeting. It is our
understanding that all requirements as described on the project scope of work have been
met. There are no additional actions required for this comment.

Mr. Godfrey Garza September 20, 2001 Page 3

Comment 10: Task 4 - Environmental Evaluation - Referencing that an environmental assessment was not required.

• Response: No action required for this comment.

Comment 11: Task 5 - Preliminary Engineering Report - Referencing electronic files for Watershed Boundary Map and Floodplain Map.

• Response: Electronic files of the Watershed Boundary Map and Floodplain Map have been previously provided.

Comment 12: Task 5 – Preliminary Engineering Report – Regarding cross section data for reaches on Raymondville Drain, from Lake Edinburg to the Laguna Madre and identified by cross-section number.

• Response: Report Exhibit 2 has been updated to include HEC-RAS cross-section locations.

Comment 13: Task 5 - Preliminary Engineering Report - Regarding electronic copy of final/approved PER.

• Response: An electronic copy of the final PER and all related files including report text, tables, exhibits, and models will be resubmitted as part of the final submittal.

#### Task 2 - Engineering Evaluation (S&B Attachment 2)

Task 2.1.1.a - Preliminary Investigation, Available Mapping — This comment referenced that FEMA map materials and the year of DOQQs be included in the report.

• Response: DOQQs used for this project were dated February 1995. Report Section II includes DOQQ date information.

Task 2.1.1.b - Preliminary Investigation, Field Reconnaissance – This comment referenced that project photographs be provided and describe how channel roughness coefficients were derived.

• Response: Project photographs have been submitted to HCDD1, as previously referenced S&B Attachment 1, Comment 3. A description of how roughness coefficients were determined has been added to *Report Section III*.

Task 2.1.1.c - Preliminary Investigation, Survey Requests – This comment referenced field surveys and their reference in report text.

• Response: The response for this comment has been addressed in our response for S&B Attachment 1, Comment 3.

Task 2.1.2 - Development of HEC-1 basin model (existing w/o project) - This comment referenced that the calibration process be described in the report and attach appropriate tables presenting subwatershed unitgraphs, channel routing data, and rainfall distribution information.

• Response: Project scope of work for Task 2.1.2, states that calibration of models will be based on previous models used for the FEMA FIS study and USACE studies. Due to a lack of stream gage stations located within the project study reaches, calibration process

Mr. Godfrey Garza September 20, 2001 Page 4

did not include a comparison of model results with measured flow values. The current version of the report adequately describes development of HEC-1 models. Subwatershed unitgraph were originally included *Report Table 2 – Watershed Characteristics*. Rainfall distribution data used for this project was originally presented in *Report Table 3*. This rainfall data has not changed. No actions were taken to address this comment.

Task 2.1.3 – Hydraulic studies – This comment referenced which cross sections were modified in HEC-RAS models and how bridge losses were determined to be minimal. This comment also referenced station-discharge tables be provided and storage-outflow models.

- Response: Report Section III was modified to include descriptions concerning cross sections and bridge losses. Report Section III also includes a description of flow routing and Report Appendix C includes copies of storage outflow HEC-RAS models.
- Task 2.1.4 Frequency analysis for existing conditions This comment referenced that a discussion concerning frequency analysis, stage-discharge-frequency curves, and USACE ER 1105-2-101 be referenced in the report.
  - Response: USACE ER 1105-2-101, Risk Based Analysis for Evaluation of Hydrology/Hydraulics Goetechnical Stability, and Economics in Flood Damage Reduction Studies, deals with risk-based analysis for flood reduction studies. Because of a lack of available data and circumstances described in the response under Task 3, a risk-based analysis was not performed.
- Task 2.1.5 Floodplain mapping This comment referenced that the limits of the DTM be provided in the report and exhibits and that a flood damage map be provided.
  - Response: Report Section II now has a statement concerning the digital terrain model (DTM). New Report Exhibit 3 presents economic reaches for the project.
- Task 2.1.6 Future without project conditions (50-year projection) This comment referenced a map of future floodplain is missing, growth factors assumptions, and the "base year" used for the project.
  - Response: Growth factors were based on study conducted as part of the Texas Water Development Board Senate Bill 1 water resource project, which provided population increases from year 2000 to 2050. A table in Report Appendix E shows how the existing and future percent impervious area was computed. This was considered to be the best way to project the growth, since it is unknown where growth will actually occur.

The base year for the hydrologic modeling was assumed to be 1995, based on the year of available aerial photography. Due to the overall size of the watersheds and the fact that most of the development since 1995 has been sparse rural development, changes in development were considered to have a very minor impact on the hydrologic model parameters for the subwatersheds. Thus, the difference in the existing conditions hydrologic model and the economic base year conditions would not affect the overall results of the analysis.

Mr. Godfrey Garza September 20, 2001 Page 5

As part of this project we evaluated scenarios with and without proposed project in place for existing and future watershed conditions. Since the purpose of this project was to develop a flood protection plan with the project in place, an exhibit showing proposed modifications and resulting floodplains was developed. An exhibit showing the future conditions without the project development of an exhibit showing future conditions without the project in place was not developed.

Task 2.1.7 – Hydrologic analysis of alternatives – This comment regarded that a clarification be provided why flood proofing was described but not clear which structures were selected for this alternative and additional clarification on selected alternatives.

• Response: The objective of the project is to determine a cost effective flood protection plan that would alleviate flooding in sections of Hidalgo and Willacy counties. This statement is found throughout the report. Report Section IV, in particular the buy-out and flood proofing alternatives, have statements that the other alternatives were determined to not meet project objectives, and therefore were determined to not be viable. A statement for each alternative was added that mentions specific structures were not evaluated for these alternatives.

#### Task 3 - Economic Re-evaluation (S&B Attachment 3)

Task A - Assumptions – This comment questioned the intent of the economic evaluation and that the benefits to be derived with risk-based analysis is not followed in the economic evaluation.

• Response: Report Appendix E includes structure data used for the economic evaluation.

The intent of the economic evaluation was to use the best data available to make a preliminary economic comparison of the various project alternatives. The scope deliverables were based on an understanding that a structure database with detailed location and property information would be obtained from the Hidalgo County Appraisal District (HCAD) and the Willacy County Appraisal District (WCAD). A database with the needed parameters was not available from the HCAD and WCAD at the time of the study. Physical location information was also not available for many of the structures. Instead, it was necessary to use hard copy maps and manual methods to develop the data on the structures in the study area.

This lack of available data increases the level of uncertainty. In order to perform a risk-based analysis under these conditions, new field surveys and structure appraisals would have to be undertaken. Based on past USACE studies, this field data can take from many months to several years to collect. Budget and time constraints did not permit this data collection.

However, the ultimate objective of making an economic comparison between the alternative plans was achieved. We believe that the economic analysis provides an accurate comparison of the project alternatives using the best available data. A statement concerning our conclusion has been added to *Report Section V*.

Mr. Godfrey Garza September 20, 2001 Page 6

- Task 3.1 Baseline economics investigation This comment requested that affected areas be delineated on a map.
  - Response: A new Report Exhibit 3 presenting the economic reaches for the study area is now included in the report.
- Task 3.1.1 Establish Base Year The comment requested that the base year for the project, which is assumed to be year 2005, be consistent in the economic and hydraulic evaluations.
  - Response: The study area impacted by the proposed project consists primarily of rural agricultural land and sparse residential development, and is not anticipated to develop appreciably in the near future. Additionally there is uncertainty as to where and when development will actually occur. We believe that our assumptions for development and base year reflect actual conditions and any changes in the assumed development would be minor and would not affect the overall results of the analysis.
- Task 3.1.3 Select planning/economic reaches This comment requested that an exhibit showing the planning/economic reaches be included in the report and to define and justify the selected reaches.
  - Response: Our response for Task 3.1 also addresses this comment. A new Report Exhibit 3 showing the economic reaches for the study area is now included in the report. In the original submittal, Report Section V, discussed criteria used for selecting economic reaches.
- Task 3.1.4 Evaluate existing and authorized plans Comment requesting a clarification of plans being evaluated.
  - Response: The report presents the results of all plans that were evaluated as part of this project.
- Task 3.1.5.a Define economic relationships Comment requesting a description regarding the structural inventory be provided in the report including the number and value of residential, commercial, public and others structures.
  - Response: The discussion of the structural inventory has been expanded in Report Section V. Detailed information on the structure types was not readily available from HCAD and WCAD files. The report states that the assumption was made to use the depth-damage curve for one-story single-family residential structures, which is the predominant structure type in the study area.
- Task 3.1.5.b Establish Structure Inventory Database Comment regarding that other damage types for the economic evaluation were omitted.
  - Response: As stated in the assumptions in the project scope of work, "the structure inventory database will be obtained from HCAD/WCAD data." It was assumed that the above data would be available for the economic analysis. However, as previously stated, data for the structure inventory database had to be manually developed using hard copy maps and printouts of parcel data. Similarly, no digital parcel mapping was available. Data for the other damage categories vehicles, roads, etc. was also not available.

Mr. Godfrey Garza September 20, 2001 Page 7

As an alternate means of computing damages for these categories, we investigated the potential of using data developed for recent Federal flood control studies in Harris County, Texas. However, the unit cost value data that was developed for these studies was based primarily on field sampling done by the U.S. Army Corps of Engineers for the Cypress Creek watershed. This Cypress Creek data is reflective of a more densely populated urban area and cannot be reasonably applied to the rural and sparsely developed areas as exists for this project.

In terms of their effect on the conclusions of the study, these other damage categories should only serve to increase the *relative* net benefits of the various alternative plans but would not affect the ranking of the various plans. In other words, the outcome of the economic analysis would not be affected by including these additional damage categories.

For comparison sake, in the densely populated urban watershed of Hunting Bayou in Harris County, Texas, the "other damage categories," comprised the following percentages of the total net benefits of the various projects:

| Structural      | 80% |
|-----------------|-----|
| Vehicles        | 8%  |
| Roads           | 1%  |
| Utilities       | 1%  |
| Emergency Costs | 10% |

This gives an indication that the benefits in "other" damage categories might comprise approximately 20% of the total annual net benefits.

This information has been added to the report.

Task 3.1.5.c - Perform field sampling and surveys to verify accuracy of appraisal district data and complete replacement cost less depreciation — Comment regarding that field sampling was not mentioned in the report and to provide backup documentation and explanation for this field sampling and survey.

• Response: Field sampling of data was conducted for some of the accessible structures to verify that structures existed and structure type. A statement has been describing this effort has been added to the report.

Task 3.1.5.d - Develop depth-percent damage functions and/or stage-damage functions (residential) - Comment requesting that the justification of the use of the IWR depth damage curves be used instead of the USACE-Galveston District curves.

• Response: Report Appendix E now includes a copy of the IWR damage curves. The IWR curves were used instead of the USACE-Galveston District curves, because the IWR curves were specifically developed to be used for all geographic regions of the U.S. The same degree of applicability cannot be assured for the Galveston District curves.

### TurnerCollie@BradenInc.

Mr. Godfrey Garza September 20, 2001 Page 8

The IWR study, which is referenced in the report, includes the following statements that emphasize their accuracy and applicability to the study area:

"The standardized functions represent a substantive improvement over other generalized depth-damage functions, such as the Flood Insurance Administration (FIA) Rate Reviews." (EGM 01-03 [2])

"These curves are developed for nation-wide applicability in flood damage reduction studies. When using these curves, the requirement to develop site-specific depth-damage curves contained in ER 1105-2-100 is waived. Additionally, the requirement to develop content valuations and content-to-structure rations based on site-specific or comparable floodplain information is also waived." (EGM 01-03 [6])

Task 3.1.5.e - Develop commercial and industrial depth damage functions — Comment regarding that no documentation was provided for this subtask and to clarify if this was ever used in the HEC-FDA and if not then explain its exclusion.

• Response: The vast majority of the structures in the study area can be classified as single-family residential, based on field observations. Data on the specific structure type was not readily available from HCAD and WCAD and therefore the one-story single-family residential depth damage curve was applied to all structures in the study area. This assumption is described in the report.

Task 3.1.5.f - Develop agriculture depth-damage curves - Comment regarding that no proper documentation was provided for this subtask and to justify the use of the methodology employed and the derived benefits with respect to the agriculture category.

• Response: Determination of agricultural benefits is a very complex and specialized type of economic analysis, which typically can take several years to complete. When the scope was written, it was assumed that the computation of agricultural benefits was similar to that of structural damages. However, as research was done in an effort to develop agricultural depth damage curves, it was determined that agricultural benefits are never determined in the same manner that structural damages are developed. Instead, an extensive economic analysis is undertaken involving data on crops and soils, and estimates of the effects of high water table (hwt), salinity, and periodic flooding on crop production. Such analysis typically also includes interviews of farmers and other agricultural professionals in the study area.

After several discussions with TAMU agricultural economics professor, Dr. Ron Lacewell, it was recommended that the best way to estimate the agricultural benefits was to adapt information from two previous studies in the LRGV. This approach was taken and is described in detail in the report. No further action will be done for this comment.

Mr. Godfrey Garza September 20, 2001 Page 9

Task 3.1.5.g - Develop infrastructure and personal damage curves for vehicles damage, utility damages, road damages, emergency costs, other costs of using the flood plain, and national flood insurance costs - Comment regarding that this information was not mentioned in the economic evaluation.

• Response: Please refer to above response for Task 3.1.5.b for the explanation of why these other damage categories were not included.

Tasks 3.2.1 and 3.2.2 Floodplain characteristics, project activities affected areas, and alternative plan damages - Comment regarding that in addition to the above mentioned comments, provide the HEC-FDA model for the project and the work maps for the economic reaches, the finished floor elevation used in the HEC-FDA should be explained in the text, and explain and justify flood damage evaluation results.

Response: The HEC-FDA model was originally submitted as part of this report. A new
exhibit showing economic reaches is being submitted as part of this response. In addition,
due to modifications concerning the hydraulic analysis, HEC-FDA models were modified.
Revised models and tables are included as part of the revised report.

A description of the structure finished floor elevations is included in the report.

The alternative plans, with the exception of the 10% diversion, reduce overall damages in the study area. However, all three alternatives do increase the damages along reach 8 where the diversion is proposed. Under existing conditions, there is no channel located where the diversion is proposed, and consequently there are no flood damages because there is no flood source being analyzed along this reach. Under the proposed diversion scenarios, there is the potential that the diversion channel will not contain all of the flood flows and consequently damages would be expected for the structures along the diversion channel. In future phases of this study, a more detailed alternative plan could be designed which ensures that the flood risks to the structures along the diversion channel are not increased beyond existing flooding conditions.

#### Summary

Submitted for your review are revised report sections (text, tables, exhibits, and Appendix E) and a CD containing computer models. This submittal incorporates report review comments prepared for the Hidalgo County Drainage District by S&B Infrastructures. In addition, this letter also serves as our response to S&B report review comments.

Please note that Texas Water Development Board (TWDB) staff is currently reviewing the report (same version that S&B reviewed). As of this submittal date, we have not received review comments from TWDB staff. Once all review comments have been received, we will submit a completed report that includes all sections and appendices.

## TurnerCollie@BradenInc.

Mr. Godfrey Garza September 20, 2001 Page 10

Based on your approval, the next step is to schedule and prepare for the advisory/public meeting in which we can present project findings and results.

If you have any questions regarding our response or need additional information, please call me at 210-296-2009.

Very truly yours,

John A. Espinoza, P.E., C.F.M.

John a. Espinoza

Project Manager

Enclosures

cc: Gilbert Ward, Texas Water Development Board

Alan J. Potok, P.E., TC&B (w/o enclosures)

Lonnie Anderson, P.E., TC&B



#### **AGENDA**



Date:

24 AUGUST 2001

Purpose:

To discuss the status and issues of the TC&B Report: "Flood Protection

Plan for the North Main and Raymondville Drain", June 4, 2001

#### I. Introductions

#### II. Review of Comments Regarding Submitted Report

The following discussion is in accordance with the outline of the scope (Attachment 1) within the contract between Turner Collie & Braden, Inc. (TC&B) and Hidalgo County Drainage District No. 1 (HCDD#1) and the Texas Water Development Board (TWDB):

#### Task 1 - Project Management and Public Involvement

(For description of this task, see page A-6, of Attachment 1)

- (1) Public Meetings. The PER, as a planning document, is required to describe the planning process. Public involvement is a part of the planning process for this project, and 3 public meetings are required to be held throughout the development of the PER: a scoping meeting at the project outset, a meeting when conceptual alternatives are defined, and a meeting upon completion of the alternatives analysis. These meetings need to be referenced in the PER, and the minutes of each meeting attached.
- (2) **Project Advisory Committee**. The project advisory committee is mentioned; however, no quarterly meeting notes and /or attached references were provided. The quarterly meeting notes need to be provided as an attached referenced. The names and positions of the members of the project advisory committee should also be listed.

#### **Task 2 – Engineering Evaluation**

(For description of this task, see page A-6, of Attachment 1)

- (3) **Field Reconnaissance**. Supplementary photography of existing key channel sections were required, and need to be included in the *PER* as referenced attachments.
- (4) Survey Requests. Actual field survey data and/or field book information appear to be missing from the attached exhibits, including field channel cross-section data, and this information needs to be included in the PER. Also, please include in the PER a listing of recorded high water marks from residents and industries.
- (5) Alternative Evaluations and Preliminary Engineering Investigations. The alternatives discussion and associated exhibits did not include any preliminary schematic(s) for each alternative depicting anticipated right of way requirements (existing and proposed widths), utility constraints (adjustments and/or relocations), and structural locations. There appear to be no evaluations of any improvements to the

existing channels downstream of the diversion channel and to the Laguna Madre. Please provide incorporate this information in the *PER* accordingly.

(6) Technical Review Comments by S&B are shown in Attachment 2

#### Task 3 - Economic Reevaluation

(For description of this task, see page A-8, of Attachment 1)

(7) Technical Review Comments by S&B are shown in Attachment 3

#### Task 4 — Environmental Evaluation

(For description of this task, see page A-9, of Attachment 1)

- (8) This task requirement includes the early invitation and notice to resource agencies. Has any preliminary coordination and/or scoping letters been submitted to the resource agencies? If so, these should be included as referenced attachments to the *PER*.
- (9) The environmental evaluation appears to be limited to the diversion channel area. The project limits for this project extend to the Laguna Madre. There is no discussion regarding the required coordination for the use of La Sal Vieja Lake for the proposed diversion alternative. Also, although the required goal of the project is not to increase the flow at the outfall to the Laguna Madre, drainage improvements along the existing channels (prior to and beyond La Sal Vieja Lake) are anticipated to be included in the design of the project, to assist in future maintenance and/or increase the efficiency of the channel (within the outfall permit requirements). The environmental evaluation needs to include the entire project limits.
- (10) With the exception of those items noted in (8) and (9), the environmental evaluation meets the preliminary requirements of the *PER*, which, under the TWDB contract, does not require a draft environmental assessment (EA) for agency review.

#### Task 5 – Preliminary Engineering Report

Additional comments:

- (11) Please provide electronic files for Watershed Boundary Map and Floodplain Map.
- (12) Please provide cross-section data for the reaches on Raymondville Drain, from Lake Edinburg to the Laguna Madre; please place these on the Floodplain Map and identify by cross-section number.
- (13) Please provide an electronic copy of the final/approved PER.

#### **III. Primary Purpose of Report**

The ultimate purpose of the report is to provide documentation for the following:

- To obtain appropriate approval for crossing major watershed boundaries
- To provide a basis for planning documents to be developed for future coordination and approval of project development, funding, and ultimate construction.

#### IV. Miscellaneous

- Technical Review Committee Meeting
- Schedule

#### V. Adjournment

#### Raymondville Drain Outfall System

A technical review of the report entitled "Draft Final Report Flood Protection Plan for the North Main and Raymondville Drains, dated June 4, 2001 prepared by Turner Collie & Braden Inc., was reviewed by S&B infrastructure with respect to the scope of services as outlined in TC&B's contract with Hidalgo County Drainage District No. 1:

#### TASK 2 - ENGINEERING EVALUATION

#### 2.1 HYDROLOGY AND HYDRAULICS

#### 2.1.1 Preliminary Investigations

Available Mapping.

Comment: Exhibits of the above mentioned map material will be helpful in the report and clarify in text that FEMA maps were provided for information purpose only. The year of DOQQs in the report will aid in supplementing the impervious calculations.

#### Field reconnaissance

Comment: Please review the June 11, 2001 memorandum from S&B Infrastructure, Ltd. Additionally, describe in text the channel roughness derived during field reconnaissance and also attach the supporting field data.

Survey requests

Comment: Please review the June 11, 2001 memorandum from S&B Infrastructure, Ltd. Describe in text with respect to item c and item d.

2.1.2 Development of HEC-1 basin model (existing w/o project)

Comment: Describe in text the calibration process of the parameters and results derived and provide appropriate models. Attach appropriate tables for the subwatershed, unitgraph (Appendix E), and channel routing in the main text for the existing and future. In a table the rainfall distribution for all frequencies will be helpful.

#### 2.1.3 Hydraulic studies

Comment: Please clarify which cross sections were modified in HEC-RAS. Text indicates detailed bridge data was unavailable and was assumed that the bridge losses were considered to be minimal. Please attach a table for the location of new bridges and also justify the assumption in text that this is true for all the studied frequencies with appropriate photographs or any other pertinent information.

Provide a flow distribution (station-discharge) table or graph.

Provide the S-O model for existing and future conditions. The text does not give any information on the S-O model. It appears that the SV-SQ relationship remain unchanged with various diversion options. Please justify the assumption and provide the explanation in text.

#### 2.1.4 Frequency analysis for existing conditions

Comment: This section or discussion about the frequency analysis is missing in the text. Please describe the selection process for location of interest and also justify the validity of the selection for both the watersheds.

The stage-discharge-frequency curves are missing and the text should include the development of the curves.

The USACE reference ETL 1105-2-101 cannot be found. The risk-based analysis, which the scope implies is referenced in ER 1105-2-101. Please include in text and appropriate models for both the existing and future conditions as required by ER 1105-2-101.

#### 2.1.5 Floodplain mapping

Comment: Please include in text the limits of the DTM developed and provide an exhibit for the effort. The flood damages map is missing and should include for both the existing condition and the residual flood damages with appropriate alternative or a selected alternative.

#### 2.1.6 Future without project conditions (50-year projection)

Comment: Include in text about item a, and changes made to item b. The map of future condition floodplains is missing.

In Appendix E, growth factors were applied to the watershed to arrive at the future conditions land use. As an example in existing conditions Sub-basin 45s, which is at 30.8 % impervious and sub-basin 7s is at .1% impervious, it appears with the assumption both the areas are growing at the same rate for future condition. Please justify the assumption.

In Section V Economic Evaluation page V-2, "A base year of 2005 was chosen since it is the year ...." For effective comparison the

land use in 2005 is not defined and appropriate water surface elevations were not provided. From the information provided, the base conditions for this project was never established and thus any effective comparison with respect to the benefits derived by the plan can never be properly evaluated.

#### 2.1.7 Hydrologic analysis of alternatives

Comment: Floodproofing was described in the text but it's not clear which structures were selected and without appropriate documentation, this option cannot be reviewed.

The report needs to clarify that only selected alternative is presented in detail and it will be helpful to document that sufficient alternatives were evaluated prior to recommending the selected alternative. Appropriate documentation with respect to in-house memorandum and models will be very helpful without which the selected alternative evaluation cannot be verified to be the best available solution.

The placement of fill on the Raymondville drain should be explained for positive drainage in the text.

The Buyout option was found to be not viable as described in the text. Without appropriate documentation, the conclusion derived cannot be determined.

It is to be noted that the base condition 2005 year was never established in the report.

With respect to the hydrological and hydraulic models,

- DI/DQ backup data is needed to confirm the diversion flows
- S-O model is needed to verify the routing
- Base conditions 2005 year should be established
- Future condition growth factors should be justified
- The diversion rates of 10%, 25% and 50% are not accurate when checked with respect to the flow rates in the channel
- Text should reference the diversion flow rate to the frequency with which it was assumed
- Based on the models, the diversion rates as assumed are ineffective for frequencies 50% to 2% flood. The flow rates will decrease for those frequencies and the percentage as assumed is not valid based on the presented results

- With the diversion in place the SV-SQ relationship in the HEC-1 model remained unchanged. Please justify this assumption with appropriate model
- There are extended sections starting at the 4% flood
- The selection of the recommended plan is inconclusive with the data provided
- The confidence and the reliability of the model was never established

- /√C for the S - \*S&E: Comments: Task 3"

#### RAYMONDVILLE DRAIN OUTFALL SYSTEM

A technical review of the letter report entitled, "Submittal of Economic Evaluation Results for the Flood Protection Plan for the North Main and Raymondville Drains, dated August 06, 2001, prepared by Turner Collie & Braden, Inc., was reviewed by S & B Infrastructure, Ltd., with respect to the scope of services as outlined in Task 3 Economic Re-Evaluation.

#### **TASK 3 - ECONOMIC RE-EVALUATION**

#### A. ASSUMPTIONS

The economic analysis provides a description of the investigations, procedures, and analyses conducted to establish the value of property within the floodplain; the expected annual flood looses under existing and future conditions; the residual flood losses; the annual flood losses; and the equivalent annual flood reduction benefits for various plans considered. The benefit of the flood hazard reduction plans will be determined by comparison of the with and without project conditions. A probabilistic display of benefits will be provided in accordance with the risk-based analysis as computed using HEC-FDA "Flood Damage Analysis Package" model.

It is not clear on the intent of this economic evaluation. The assumptions in the scope clearly state the deliverables for this analysis. As outlined in the assumptions "and analyses conducted to establish the value of property within the floodplain", the economic evaluation report does not include the number of structures or the total value of the property in the floodplain and the expected damages for the future without project conditions. Further, the assumptions that the benefits are to be derived with risk-based analysis is not followed in this economic evaluation.

3.1 Baseline economics investigation Delineate affected area

An exhibit of the affected area with reaches will be helpful in understanding the economic evaluation.

#### 3.1.1 Establish base year

The report needs to describe more clearly the base year for the project, which is assumed to be year 2005. There should be consistency in the economic and hydraulic evaluations on the base year.

3.1.2 Establish period of analysis and analysis years

3.1.3 Select planning/economic reaches

Exhibit on the planning/economic reaches will be helpful. Also, define and justify the selected reaches.

3.1.4 Evaluate existing and authorized plans

Please clarify what plans are being evaluated. The report does not imply any other plans were evaluated other than those analyzed.

3.1.5 Define economic relationships

This subtask involves developing a structure inventory database using county tax records and parcel from Hidalgo and Willacy Counties' appraisal districts and determining what structures and other property are in the floodplain, the value of structures and associated contents and the structure's base elevation.

Please describe in the report regarding the structural inventory. It should clearly state the number of residential, commercial public and others.

Establish Structure Inventory Database

The structure inventory database will be obtained from HCAD/WCAD data. The structure database will include real property records and associated digital parcel mapping. The structure database will be compiled to define the Damage Categories, Structure Occupancy Types, and Structure Attributes for input into the HEC-FDA computer program. Damage categories will include residential, commercial, public, and industrial structure and contents, roads, emergency costs, vehicle, utilities, and park areas.

The other damages for the economic evaluation were omitted. This is an essential element for the evaluation of this project and is a deviation from the presented scope of services.

Perform field sampling and surveys to verify accuracy of appraisal district data and complete replacement cost less depreciation.

The report does not mention anything with respect to this subtask. Provide backup documentation and explanation for the field sampling and survey.

Establish value of floodplain property

Develop depth-percent damage functions and/or stage-damage functions (residential).

Please provide and justify the use of the IWR depth damage curves instead of the USACE-Galveston district curves.

Develop commercial and industrial depth-damage functions

There is no proper documentation for this subtask. Clarify if this was ever used in the HEC-FDA and if not then explain its exclusion in HEC-FDA.

Develop agriculture depth-damage functions

There is no proper documentation for this subtask. Justify the use of the methodology employed and the derived benefits with respect to the agriculture category.

Develop infrastructure and personal damage curves

Vehicle damage

Utility damage

Roads damage

Emergency costs

Determine other costs of using the flood plain

National flood insurance costs

The above mentioned were never used in the economic evaluation. Please justify.

- 3.2 Determine alternative damages
- 3.2.1 Determine floodplain characteristics (existing conditions without project)

Damages for the baseline conditions without a project in place will be approximated using the data sources described, and identifying average annual damages using the HEC-FDA software.

#### 3.2.1 Project activities in affected areas (future conditions without-project)

Estimates of future growth benefits will be based on current economic growth indices. Economic and demographic projections by analysis year will be determined for the study area using the data from the LRGVDC and the TWDB. The potential for additional damages resulting from increasing water surfaces will then be evaluated using the HEC-FDA model in concert with the hydrologic studies performed.

#### 3.2.2 Alternative plan damages

Alternative plans are to be sized for 10-, 25-, and 100- year flood control capacity. Damage reductions associated with the alternatives will be performed using the HCAD data sets in the GI, and comparing the reduction in damages associated with modifications to the individual floodplains. The alternatives will be examined against multiple profile runs of the 2-, 5-, 10-, 25-, 100-, 250-, and 500-year storms.

In addition to the above mentioned comments. Please provide the HEC-FDA model for the project and the work maps for the economic reaches. The finished floor elevation used in the HEC-FDA should be explained in the text. Based on Table 8, results of Structural Damage Analysis the residual flood damages with the all of the analyzed alternatives will result in the increase in flood damages. Please explain and justify.

Engineers • Planners • Project Managers

6800 Park Ten Blvd., Suite 1805 San Antonia, Texas 78213 210 296-2000 Fax 210 296-2025

October 30, 2001

TC&B Job No. 31-01001-001 2. C Raymondville and North Main Drains

Mr. Gilbert R. Ward Texas Water Development Board 1700 North Congress Avenue Austin, Texas 78711

RE: Flood Protection Plan for the North Main and Raymondville Drains Response to TWDB / TxDOT Comments

Dear Mr. Ward:

On October 10, 2001, we received from your office a copy of an email message dated September 12, 2001 addressed to you from David Stolpa with the Texas Department of Transportation. Mr. Stolpa's email presented his review comments for the North Main and Raymondville Drains report. A copy of Mr. Stolpa's email is enclosed.

After receiving the comments, Joseph Barrow, P.E., with TC&B had a telephone conversation with Mr. Stopla to discuss his comments. The following is our response to Mr. Stolpa's comments.

- Comment 1: Concerning the calibration of data.
  - Response: As referenced in report Section II Modeling Methodology, the purpose of this study was to establish a conceptual flood protection plan and not necessarily to determine detailed floodplain delineations. Due to a lack of stream gage stations located within the project study reaches, calibration process did not include a comparison of model computed peak discharges with measured flow values. The basis of project hydrologic methodologies, assumptions, factors, and models was from information developed as part of the revised Flood Insurance Study (FIS) conducted for Hidalgo County. Since the Revised FIS project was reviewed and approved by FEMA for this watershed, the FIS information was also used for this project.
- Comment 2: Concerning the use of 24-hour rainfall event (duration) and adjustment of point rainfall values (areal adjustment).
  - O Response: As stated for Comment 1, project hydrologic methodologies, assumptions, factors, and models was developed in part from the revised FIS project for Hidalgo County including rainfall durations, depths, and other adjustments. To address the concern of project rainfall data, we compared peak flows with those calculated with the "Cypress Creek Formula". The "Cypress

Mr. Gilbert Ward October 30, 2001

Page 2

Creek Formula" was developed to determine flow for agricultural watersheds along the Gulf Coast, Atlantic Cost and southern Florida considering rainfall excess. Results indicate that computed flows using the formula for subwatersheds have an average difference of 8 percent when compared with flows developed using project hydrologic methodologies and models.

In addition, we have also added additional text to report Sections I, II, III, and VII addressing Mr. Stolpa's review comments. This additional text has been high-lighted in the enclosed copies of the report sections.

If you have any questions regarding our response or need additional information, please call me at 210-296-2009.

Very truly yours,

John A. Espinoza, P.E., C.F.M.

John a. Exercos

Project Manager

Enclosures

cc: Mr. Godfrey Garza, Hidalgo County Drainage District Number One

Mr. Alan J. Potok, P.E., TC&B

#### Espinoza, John

From:

David Stolpa [DSTOLPA@dot.state.tx.us] Wednesday, September 12, 2001 5:48 PM

់nt: u:

Gilbert.Ward@twdb.state.tx.us

Subject:

Contract No. 99-483-305, Hidalgo County Drainage District

Gilbert:

#### SUMMARY

I have finished a quick review of the drainage study. Several things come to mind.

- 1. First, was there any attempt at calibration? It is possible that there may not be any data but some discussion of the implications the lack of or ability to calibrate would help set some direction as to how to use the study as a planning tool. That is, does the community desire a tool that is in line with statistical expectation, or is a conservative tool acceptable?
- 2. I also have some concerns regarding the hydrology, and in particular, the consultants's development of the storm models used in the HEC1 runs. Unless they can provide some clarification, the study may be in question.

#### DURATION

In explanation, by looking at the HEC1 data for the North Main Drain, it would appear that this project was modeled as a series of sub watershed having a combined drainage area of at least 668 square miles. That is, an overall system. When selecting a storm duration for a basin, especially if the storm is to be applied to an analysis of the total a system, the storm duration selected should be equal to or greater than the time of ncentration (Tc) for the total basin. Otherwise, we cannot be certain that the model tput reflects a full basin response.

The selected storm duration appears to be a 24-hour event. However, it does not appear that a Tc was developed for the overall basin in this project. If the overall TC exceeds 24 hours, then use of the 24-hr storm is questionable. In fact, the HECl input indicates that many of the sub basins individually have lag times (lag is generally estimated as being 0.6 Tc) greater than 50 hours. Therefore, even the response of these sub basins, or any sub basin with a lag time over 14 hours, is questionable even if it was intended to individually apply a 24-hour storm to the sites.

#### AREAL ADJUSTMENT

Another storm model issue regards the precipitation depths. After talking to you, I did find a note in the HEC1 input that indicated that point rainfall values (for areas up to 10 square miles) were adjusted. What is not clear is how the adjustments were (or were intended to be) made. The storm/ PH cards (contained under the KK card for sub basin SC-7a) appear to contain the point values computed using the USGS Report 98-4044. In addition, the second field of the PH card was left blank indicating that the basin area from the BA record would be used for the adjustment.

If we were simply looking at sub basin SC-7A, I would think that the areal adjustment for that individual basin using this approach worked just fine. In addition, since the storm data is not repeated for each basin, the default procedure in HECl should pick up the rainfall data from the SC-7A PH card and adjust the rainfall for each individual basin.

However, I have a question as to whether the intent was to model the response of the overall system. If so, the adjustment that should be expected for the 668 square mile basin "system" may not be appropriately considered with the approach that was actually ed. Especially since most of the individual basin are relatively small and very little sjustment under these conditions would be expected. If the intent was to model the individual sub basins a s being independent of each other and the "system" why the system routing?

Anyhow, let me know if you have any questions or if I can be of additional assistance. I would like to see what comes of this. TxDOT does try to consider local drainage plans when working with the communities and planning our own structures.

~avid

#### Espinoza, John

From: Gilbert Ward [Gilbert.Ward@twdb.state.tx.us]

Sent: Wednesday, November 07, 2001 1:28 PM

To: Espinoza, John

Subject: comment response to TxDOT

inhn

I'm satisfied with your response to comments made by David Stolpa of TxDOT. Be sure that when you finalize the report, you provide in the report the comments sent to you, which included the TxDOT comments and your responses to all comments. I talked with David and I guess you convinced him also. The format can be like your letter to me but you should reproduce the entire comment, and then provide your response. Call if you have questions.

11/29/01

Engineers • Planners • Project Managers

rile

6800 Park Ten Blvd., Suite 180S San Antonio, Texas 78213 210 296-2000 Fax 210 296-2025

November 13, 2001

TC&B Job No. 31-01001-001 2. 6
Raymondville and North Main Drains

Mr. Gilbert R. Ward Texas Water Development Board 1700 North Congress Avenue Austin, Texas 78711

Re: Flood Protection Plan for the North Main and Raymondville Drains Response to TWDB / TxDOT Comments

Dear Mr. Ward:

On October 30, 2001, we received a copy of a letter dated October 16, 2001, addressed to Godfrey Garza, Hidalgo County Drainage District No. 1, from Tommy Knowles with the Texas Water Development Board. Mr. Knowles' letter presented review comments for the North Main and Raymondville Drains draft final report. A copy of Mr. Knowles' letter is enclosed. The following is our response to Mr. Knowles' comments.

- Comments 1 through 5: Summary.
  - o Response: No response required
- Comment 6: Concerning initial abstractions.
  - o **Response:** As discussed in the report, an initial abstraction value of 1-inch was used as a base value. This base value was increased to 2 or 3-inches for certain land uses such as orchards or vineyards and for areas located within subareas that have numerous irrigation channels.

Additionally, initial abstraction values were increased for areas with major depression storage. Consequently, for subareas with extensive areas of major depressions, the initial abstraction values were calculated to be as high as 7.3-inches.

- Comment 7: Concerning peak flows related to 25 percent diversion at some cross sections being higher than peak flows related to 15 percent and 50 percent diversion at the same cross section.
  - o Response: Upon review of the peak flows at the locations inquired about, the routing data for the 25% Diversion HEC-1 model was found to be different from the routing data in both the 10% Diversion and 50% Diversion HEC-1 models.

Mr. Gilbert Ward November 13, 2001 Page 2

The routing data for the Rt26A location was changed in the 25% Diversion model to match the correct data in the other models.

The 25% Diversion HEC-1 model was executed, and the peak flows were compared with those previously submitted. The largest increase in peak flows was 106 cubic feet per second (cfs), and the largest decrease was 121 cfs. These represent a 5 percent increase and a 6 percent decrease in flows, respectively.

The new flows were entered in the HEC-RAS model, and the model was executed. The largest increase in the water surface elevations was 0.14 feet (0.14'), and the largest increase in flood plain was 0.01 feet (0.01'). This increase is not considered substantial, and the conclusions and recommendations will not change as a result of this modeling change.

Copies of revised 100-year storm HEC-1 input/output, HEC-RAS model output, and Tables 4 and 5 are enclosed.

- Comments 8 A-C: Texas Department of Transportation comments.
  - o **Response:** These comments were addressed in a previous letter sent to your office dated October 30, 2001.

If you have any questions regarding our response or need additional information, please call me at 210-296-2009.

Sincerely yours,

John A. Espinoza, P.E., C.F.M.

John O. Espinores

Project Manager

Enclosures

cc: Mr. Godfrey Garza, Hidalgo County Drainage District No. One

Mr. Alan J. Potok, P.E., TC&B, w/o enclosures



## TEXAS WATER DEVELOPMENT BOARD

William B. Madden, *Chairman* Jack Hunt, *Member* Noé Fernández, *Member* 

Craig D. Pedersen Executive Administrator Wales H. Madden, Jr., Vice-Chairman William W. Meadows, Member Kathleen Hartnett White, Member

October 16, 2001

Mr. Godfrey Garza, Manager Hidalgo County Drainage District No. 1 902 N. Doolittle Edinburg, Texas 78539

00T 2 1 H

Re:

Flood Protection Planning Contract Between the Hidalgo County Drainage District No. 1 (District) and the Texas Water Development Board (Board), Contract No. 99-483-305, Draft Final Report

Dear Mr. Garza:

Staff members of the Texas Water Development Board have completed a review of the draft report under TWDB Contract No. 99-483-305. As stated in the above referenced contract, the District will consider incorporating comments from the EXECUTIVE ADMINISTRATOR shown in Attachment 1, and other commentors on the draft final report into a final report. The District must include a copy of the EXECUTIVE ADMINISTRATOR's comments in the final report.

Prior to submitting the Final Report, please contact Mr. Gilbert Ward, the Board's designated Contract Manager for this study at (512) 463-6418 to discuss the comments attached. It may be possible that a revised draft will need to be submitted prior to the Final Report. If you have any other questions, please contact Mr. Ward.

Sincerely,

Tommy Knowles, Ph.D., P.E. Deputy Executive Administrator

Office of Planning

Cc:

Gilbert R. Ward, TWDB John Espinoza, TC&B

# ATTACHMENT 1 TEXAS WATER DEVELOPMENT BOARD Contract No. 99-483-305 Flood Protection Plan for the North Main and Raymondville Drains

- 1. The report describes the results of hydrologic and hydraulic analyses completed in an effort to determine a cost effective flood protection plan that will alleviate flooding in sections of Hidalgo and Willacy Counties. The study examines structural and nonstructural alternatives and considers future development in the study area.
- 2. Recommendations include construction of a diversion channel to divert flow from the North Main Drain into the Raymondville Drain watershed and of facilities that would allow for storm water detention within the diversion channel, the Raymondville Drain and La Sal Viejo Lake. The report indicates that, with the proposed improvements, computed 100-year storm water surface elevations for the Raymondville Drain in the vicinity of the City of Raymondville are within existing bank elevations.
- Standard principles and methodologies have been employed in the accumulation and presentation of data in this report. Proposed construction improvements appear to be eligible for Board financing. Estimations of project costs appear to be based on reasonable assumptions.
- 4. The Final Report would be appropriate for use in support of an application to the Board for financing the proposed improvements. All additional information required by appropriate Board rules, 31 TAC 363, and required to make legal findings required by Texas Water Code Chapter 17.771-776 would be required at the time of application. Flood control work is not eligible for the Board's pre-design funding option.
- 5. An Application for Approval of Reclamation Project need not be filed with the Texas Natural Resource Conservation Commission for the referenced proposal. It was determined from our review that the proposed project, since it is in Hidalgo County, needs to be permitted by the County. Hidalgo County by virtue of its participation in the National Flood Insurance Program, and in accordance with Section 16.236 (d) (3&4) of the Texas Water Code, has approval authority for the project. If the County has not already done so, they should insure that the proposed construction is documented and permitted in accordance with their Flood Hazard Prevention Ordinance. This documentation should also be submitted by the County to the Federal Emergency Management Agency to obtain a Letter of Map Revision (LOMR) of Hidalgo County's Flood Insurance Rate Map.
- 6. Table 2. The initial abstractions are high for many sub-regions. For example, it is 7.319 for 28R sub-region. Page III-3; text states that "initial abstraction rates of 1.0 inch was generally appropriate. Explain the reason for the higher rates and how the numbers are obtained.
- 7. Table 4. The peak flows related to 25% diversion at some cross sections are higher than the peak flows related to both 15% and 50% diversion at the same cross section (i.e. HEC-RAS stations 109185 and 149670). Explain.

- 8. A. There does not appear to be any attempt at calibration. It is possible that there may not be sufficient data but some discussion of the implications as to the lack of or ability to calibrate would help set some direction as to how to use the study as a planning tool. That is, does the community desire a tool that is in line with statistical expectation, or is a conservative tool acceptable?
  - B. There are concerns regarding the hydrology, and in particular, the development of the storm models used in the HEC1 runs. Unless clarification can be provided. the results may be in question. It would appear that this project was modeled hydrologically as a series of sub-watersheds having a combined drainage area of at least 668 square miles, that is the overall system. When selecting a storm duration for a basin, especially if the storm is to be applied to an analysis of the total system, the storm duration selected should be equal to or greater than the time of concentration (Tc) for the total basin. Otherwise, it cannot be certain that the model output reflects a full basin response. The selected storm duration appears to be a 24-hour event. However, it does not appear that a Tc was developed for the overall basin in this project. If the overall Tc exceeds 24 hours (as it does), then use of the 24-hr storm is questionable. In fact, the HEC1 input indicates that many of the sub basins individually have lag times (lag is generally estimated as being 0.6 Tc) greater than 50 hours. Therefore, even the response of these sub basins, or any sub basin with a lag time over 24 hours, is questionable even if it was intended to individually apply a 24-hour storm to the sites.
  - C. Another storm model issue regards the precipitation depths. Notes in the HEC1 input indicate that point rainfall values (for areas up to 10 square miles) were adjusted. What is not clear is how the adjustments were (or were intended to be) made. The storm/ PH cards appear to contain the point values computed using the USGS Report 98-4044. In addition, the second field of the PH card was left blank indicating that the basin area from the BA record would be used for the adjustment. If we were simply looking at sub basin SC-7A, I would think that the areal adjustment for that individual basin using this approach worked just fine. In addition, since the storm data is not repeated for each basin, the default procedure in HEC1 should pick up the rainfall data from the SC-7A PH card and adjust the rainfall for each individual basin. However, the question is whether the intent was to model the response over the sub-area of the overall system. If so, the adjustment that should be expected for the 668 square mile basin "system" may not be appropriately considered with the approach that was actually used. Especially since most of the individual basins are relatively small and very little adjustment under these conditions would be expected. If the intent was to model the individual sub basins as being independent of each other and the "system". why the system routing?

#### Espinoza, John

From: Gilbert Ward [Gilbert.Ward@twdb.state.tx.us]

Sent: Wednesday, November 28, 2001 11:10 AM

To: Espinoza, John Cc: Phyllis Thomas

Subject: final report - Hidalgo Co Drainage Dist.- Contract 99-483-305

John,

TC&Bs responses to the TWDB comments on the Draft report provided in the 16 October letter addressed to Mr Godfrey Garza, have been found to be complete and are acceptable to the Board. It will not be necessary to submit a revised draft for review. As stated in the contract, the final Report should include the Boards comments and responses. We look forward to receiving the final Report, 10 bound copies, 1 unbound and 1 electronic.

Thanks again. Let me know if you have any questions.

gil