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Phone (512) 463-7847, Fax (512) 475-2053

ENVIRONMENTAL DETERMINATION

TO: File

FROM: T. Clay Schultz, Ph.D., Director, Regional Water Project Development

Clay Schultz Digitally signed by Clay Schultz Date: 2026.08.17 16:43:50 -05'00'

SUBJECT: North Texas Municipal Water District, Fannin County, Texas
TWDB SWIFT Project No. 51103
North System Raw Water Pipelines
PN633
Total Commitment Amount: $641,695,000
Loan No. L1002218

The environmental review for the North System Raw Water Pipelines project proposed by the North Texas Municipal Water District (District) has been completed consistent with 31 Texas Administrative Code (TAC) § 363.14. The District is proposing to use $641,695,000 in financing from the State Water Implementation Fund for Texas (SWIFT) program to construct an 84-inch, 27-mile pipeline that will convey water from the Lake Texoma Pump Station to the Texoma Balancing Reservoir near Howe, Texas, and to construct an 84-inch 9-mile pipeline that will connect the expanded Leonard Water Treatment Plant (WTP) to the existing Texoma-to-Wylie raw water pipeline (RWPL). Both of these pipelines will allow the District the ability to provide treated water to its members and customer cities from the available water supply from Lake Texoma. The Texas Water Development Board (TWDB) committed this financing on July 24, 2025. The District closed the financing on November 20, 2025.

The two pipelines will be constructed in separate phases. This Environmental Determination (ED) assesses the 27-mile pipeline that will convey water from the Lake Texoma Pump Station to the Texoma Balancing Reservoir, which is identified by the District as PN633.

Results of this environmental review are documented by the accompanying Memorandum, which contains mitigative environmental conditions that will be applied to the project to avoid significant adverse impact on waters of the U.S., floodplains, cultural or historical resources, threatened or endangered species, and protected migratory bird species.

Based on a detailed environmental review of the planning information, the Environmental Data Form received by the TWDB on April 1, 2026, with the supplementary materials submitted to the TWDB on July 14, 2026, the project meets the requirements of 31 TAC § 363.14 with the following special and standard environmental conditions:

<u>Special Environmental Conditions</u>

- Consistent with the Flood Insurance Reform Act of 2004, federal Executive Order 11988 as amended by EO 13690, Texas Water Code Section 16.315, and local floodplain

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development ordinances, floodplain development permits will be obtained from the City of Sherman, City of Denison, Grayson County, and any other applicable local floodplain administrators prior to construction in, across, or under a Special Flood Hazard Area and Texas Water Development Board (TWDB) approval of plans and specifications, and any requirements contained therein will be adhered to.

- To avoid impacts to potential waters of the U.S., including wetlands, and aquatic habitat, pipeline crossings of large, perennial waterbodies, specifically Post Oak Creek, Sand Creek, an Impoundment of Sand Creek (WF-44, as identified in the January 2026 Water Features Delineation Report), an Unnamed Tributary to Sand Creek (WF-46), Choctaw Creek, and a Tributary to Choctaw Creek (WF-61), will be performed by a trenchless method, with bore pits located outside riparian and/or aquatic habitat (USACE No. SWT-2025-388, TPWD Project No. 56095).
    - WF-46 and WF-61 will be constructed using a trenchless method; however, temporary crossings will be constructed at these two locations. Following construction of the pipeline all temporary impacts associated with the crossings at WF-46 and WF-61 must be restored to pre-construction contours and conditions.

- Consistent with Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899, the proposed project will comply with the terms and conditions of the United States Army Corps of Engineers (USACE) Nationwide Permit 58 for Utility Line Activities for Water and Other Substances (Identification No. SWT-2025-388).

- As per an agreement with the USACE (Identification No. SWT-2025-388) and the Texas Historical Commission (Tracking No. 202605944), a professional archeologist must monitor all ground-disturbing activities during project activities conducted in the vicinity of the Friendship Cemetery and the Hatfield Cemetery. If any cultural materials are discovered, all work shall cease within a 50-foot radius of the discovery to allow for examination by the archeologist. The USACE district engineer and the THC will be immediately notified of what was found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The USACE district engineer will initiate the federal, tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

- To ensure compliance with the Endangered Species Act of 1973, as amended, per an agreement with the United States Fish and Wildlife Service (USFWS Project Codes 2025-0003647 and 2026-0097760) and the USACE (Identification No. SWT-2025-388), construction or vegetation clearing activities within 1,000 feet of potential whooping crane (*Grus americana*) habitat will be performed outside of the whooping crane migration season, March 19 through April 30 and October 20 through November 24. If these activities cannot be avoided during spring and fall migration, the following mitigation measures will be implemented:
    - Construction site staff will be provided with educational materials on the appearance and status of the whooping crane in order to identify individuals.

  - A qualified person who is familiar with the whooping crane will monitor for the whooping crane near suitable habitat and halt construction if an individual is detected within 1,000 feet of a work site. Work will cease until the crane has moved outside of the 1,000-foot buffer zone.
  - If a whooping crane is observed for any length of time within 1,000 feet of the work site, the USFWS Texas Coastal & Central Plains Ecological Services Field Office will be immediately notified.

- As per agreements with the Texas Parks and Wildlife Department (TPWD), Ecological & Environmental Planning Program (TPWD Project No. 56095) and United States Fish and Wildlife Service (USFWS Project Codes 2025-0003647 and 2026-0097760), to ensure compliance with Chapters 1, 12, 57 , 64, 66, 67, and 68 of the Texas Parks and Wildlife Code, 31 Texas Administrative Code (TAC) Chapter 57, and the Endangered Species Act of 1973 (ESA), as amended, the Migratory Bird Treaty Act, and applicable federal regulations pertaining to protected and invasive species including but not limited to the alligator snapping turtle (*Macrochelys temminckii*), southern crawfish frog (*Lithobates areolatus areolatus*), bald eagle (*Haliaeetus leucocephalus*), and monarch butterfly (*Danaus plexxipus*), the following measures will be implemented:
  - Vegetation clearing must be excluded during the general bird nesting season March 15 through September 15, to avoid adverse impacts to breeding birds. If vegetation clearing during this time is unavoidable, the area proposed for disturbance will be surveyed by a qualified biologist to identify occupied nests, not more than five days prior to clearing activities. If occupied nests are observed during surveys, a vegetation buffer area of no less than 100 feet in diameter will remain around the nest until all young have fledged; however, the size of the buffer zone depends on various factors and can be coordinated with the local or regional USFWS office.
  - The North Texas Municipal Water District (District) will design the project to avoid impacts to riparian zones to the extent feasible. During construction, trucks and equipment will use existing bridges to cross creeks while avoiding unnecessary access roads across creeks. Culverts will not be placed in areas containing native mussels.
  - Contractors and construction crews will avoid and will be provided with educational materials on how to avoid disturbance to inert microhabitats in waterways such as snags, brush piles, fallen logs, creek banks, pools, and gravel stream bottoms.
  - If construction will occur in streams during times when water is present, the District will coordinate with the TPWD Kills and Spills Team (KAST) for the appropriate permits prior to construction, and documentation of this coordination and permitting will be submitted to the TWDB prior to the TWDB's approval of plans and specifications.
  - The District will develop and implement an aquatic invasive species (AIS) transfer prevention plan that incorporates best management practices from the TPWD Aquatic Resource Relocation Plan Guidance Document and the TPWD Clean/Drain/Dry Procedures and Zebra Mussel Decontamination Procedures for Contractors Working in Inland Public Waters and submit the AIS transfer

prevention plan to the TWDB prior to the TWDB's approval of plans and specifications.

- Contractors and construction crews will be provided with educational materials regarding the following as well as adhere to the actions contained below.
    - The basic life history and identification of the alligator snapping turtle (AST)
    - Soil compaction and disturbance within 200 feet of Group 5 and perennial waterbodies, the use of machinery in perennial and intermittent waters, and placement of temporary or permanent crossings within perennial water or inundated intermittent streams will be avoided or minimized. If tunnel access shafts are located within 200 feet of a perennial waterbody, AST exclusion fencing will be installed.
    - Construction and vegetation removal will be avoided within 200 feet of a waterbody with suitable AST habitat during the breeding and nesting season of the AST, May 1 through June 30. If construction or vegetation removal within 200 feet of a waterbody with suitable AST habitat will begin during breeding and nesting season of the AST, a qualified biologist will survey the area for nests no more than 5 days prior to commencement and submit the report to the TWDB.
    - If an AST is observed in the construction area, work will immediately cease and the AST will be allowed to safely leave the site on its own prior to the recommencement of work. The AST will be handled only by persons with authorization obtained through the Texas Parks and Wildlife Department.
    - Clearing of mature trees in the riparian zone will be minimized to maintain shade for the AST.
    - Impacts to logs, cutbanks, rootballs, or other similar structures will be minimized as the AST uses these for shelter. If these structures are removed, the same or similar structures will be returned to the waterbody and riverbank to the extent feasible.
- Permanent nighttime lighting will not be installed as part of the proposed pipeline installation. If temporary nighttime lighting is needed during construction, lights will be focused downward with cutoff luminaries to avoid light emitting above the horizontal, and lighting will only be used when needed.
- When restoring the right-of-way, the District will plant a diverse mix of native species that provide floral resources or allow vegetation to naturally reestablish, unless otherwise requested by landowners.
- Contractors and construction crews will be provided with informational materials identifying protected species that may occur in the project area and instructing them on how to avoid impacts to wildlife that are encountered: If wildlife are encountered, the animals will be allowed to leave the area safely. Wildlife in danger from project activities that will not readily leave the site can be translocated to a nearby area with similar habitat. Any translocations of reptiles will occur within 100-200 yards from the initial encounter location. State-listed species will be handled only by persons with authorization obtained through the TPWD.

- The length of trenches left open at any given time during construction will be minimized. Trenching and backfilling activities will be kept close together in time. Trenches and excavation areas will be covered overnight and/or inspected every morning or if left open longer than two daylight hours to ensure no wildlife species have been trapped. If trenches cannot be backfilled the day of initial trenching, then escape ramps will be installed every 300 feet, in the form of short lateral trenches or wooden planks sloping to the surface at an angle of less than 45 degrees, at a ratio of one horizontal foot for every one foot of depth.
- For soil stabilization and revegetation, no-till drilling, hydromulching (avoiding plastic ingredients), and/or hydroseeding will be used rather than erosion control blankets or mats, which pose an entanglement hazard to wildlife. If erosion control blankets or mats cannot be avoided, products that contain no netting or loosely woven natural fiber netting will be used, avoiding any type of plastic netting.
- Proposed project activities will not occur within 660 feet of a bald eagle nest. If a bald eagle nest is identified within 660 feet of the project area, construction will cease until further coordination with the USFWS occurs.
- If tricolored bats (*Perimyotis subflavus*), alligator snapping turtle, or the Monarch butterfly become federally listed prior to vegetation clearing and/or construction, the District will conduct additional coordination with the USFWS to ensure compliance with the ESA.

<u>Standard Environmental Conditions</u>

- Consistent with the TWDB Supplemental Construction Contract Conditions (TWDB-0552), the District will abide by the standard emergency condition for the discovery of cultural resources.

- Consistent with the TWDB Supplemental Construction Contract Conditions (TWDB-0552), the District will abide by the standard emergency condition for the discovery of threatened and endangered species.

With the addition of these requirements, design funds may be released once all other requirements are satisfied.

Enclosures

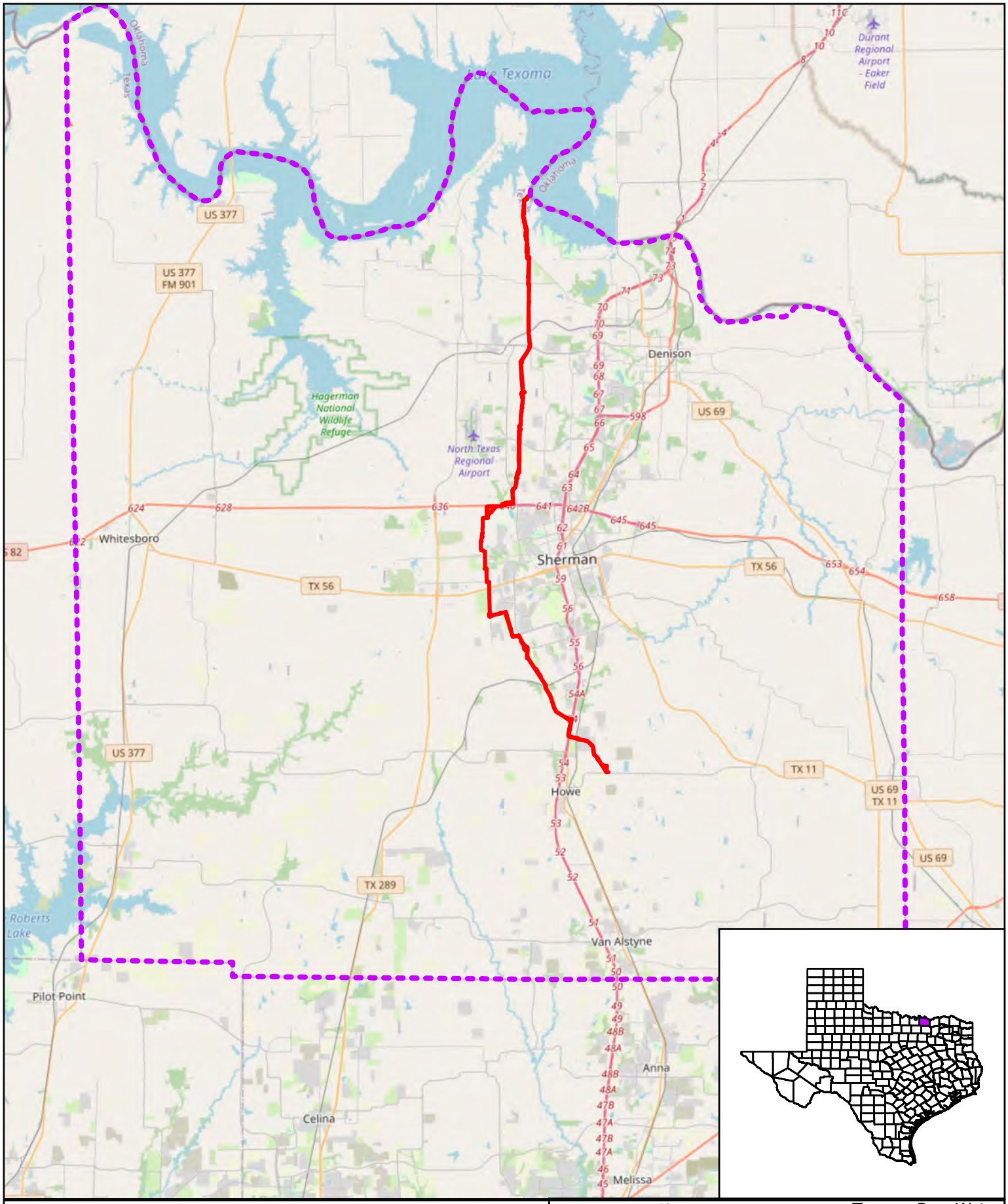


Figure 1. Regional Location Map
Grayson County

Source: OpenStreetMap (2025)

Legend

Study Area

Grayson County

N

0 2.5 5
Miles

Texoma Raw Water Pipeline 2 Project

1 inch = 5 miles

Scale: 1:312,500

Date: 12/04/25

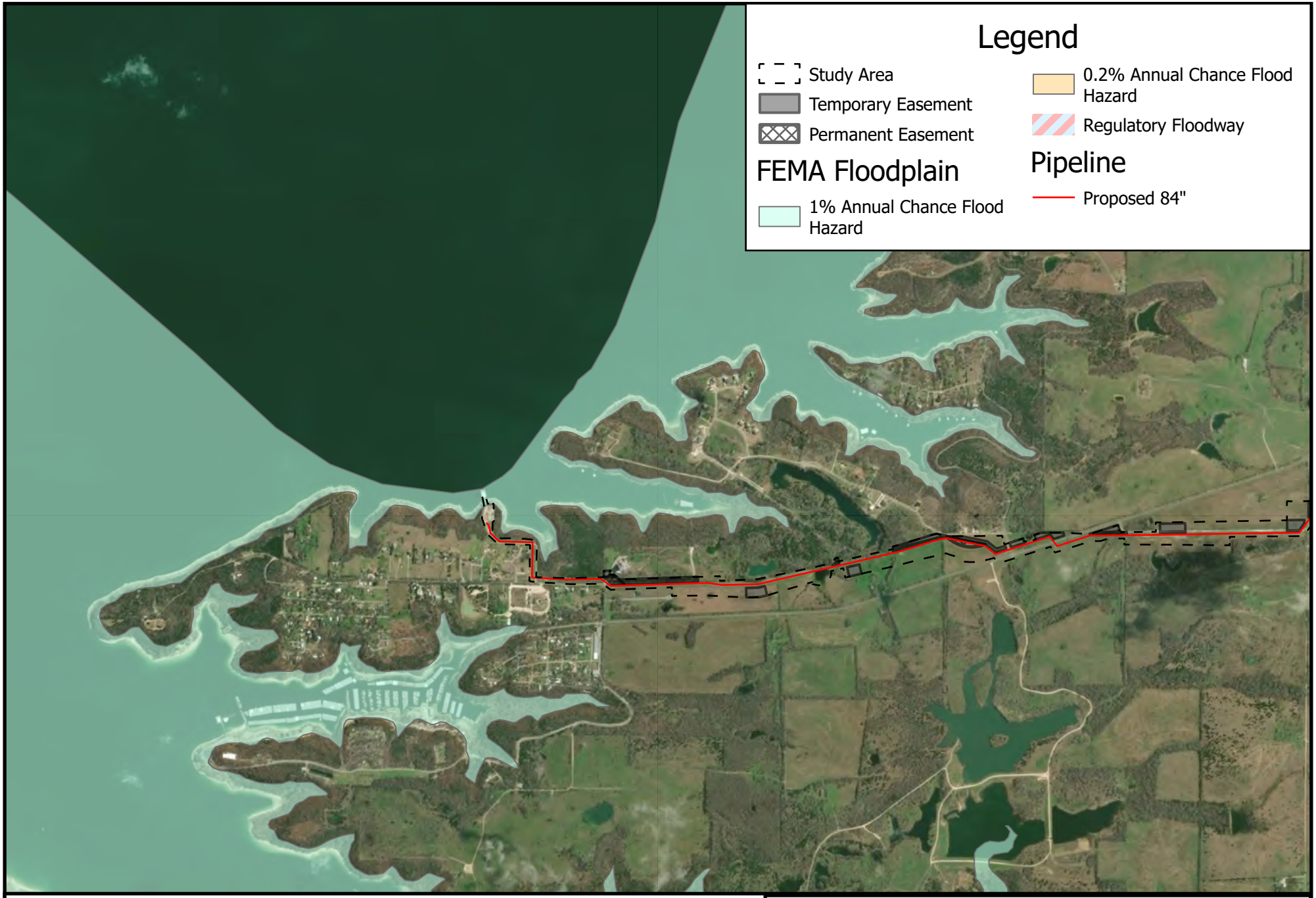


Figure 2a: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

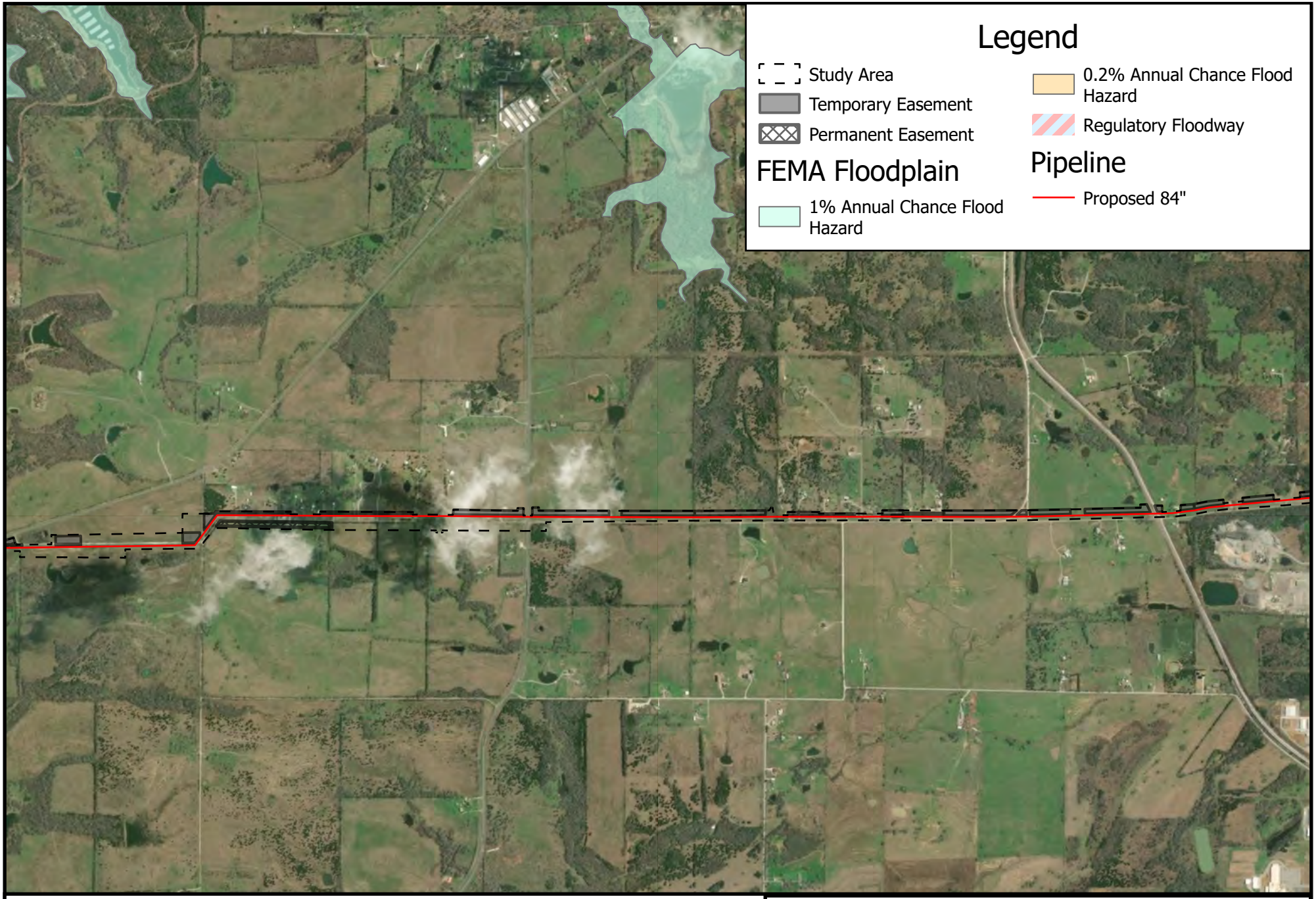


Figure 2b: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water
Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

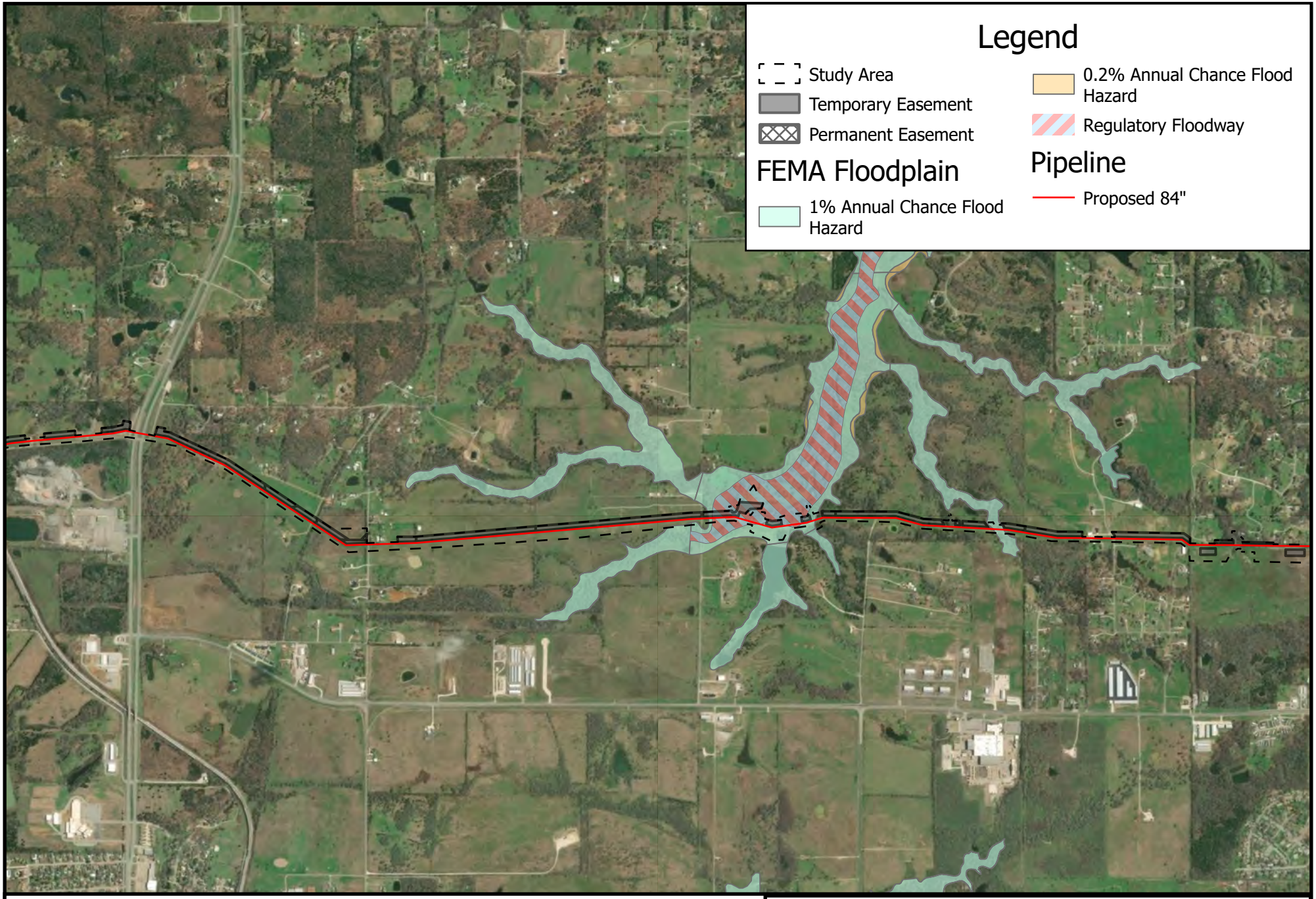


Figure 2c: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water
Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

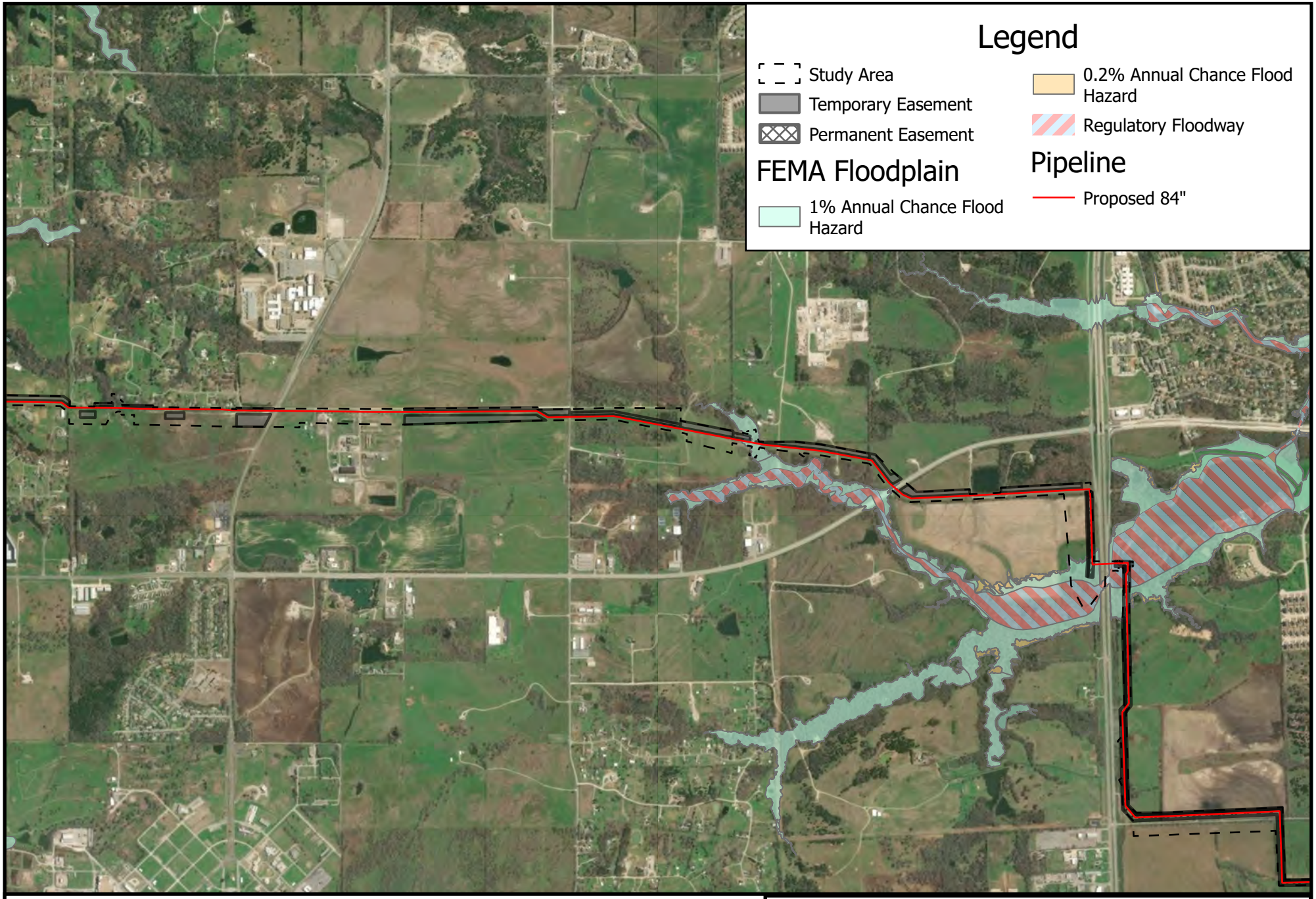


Figure 2d: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water
Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

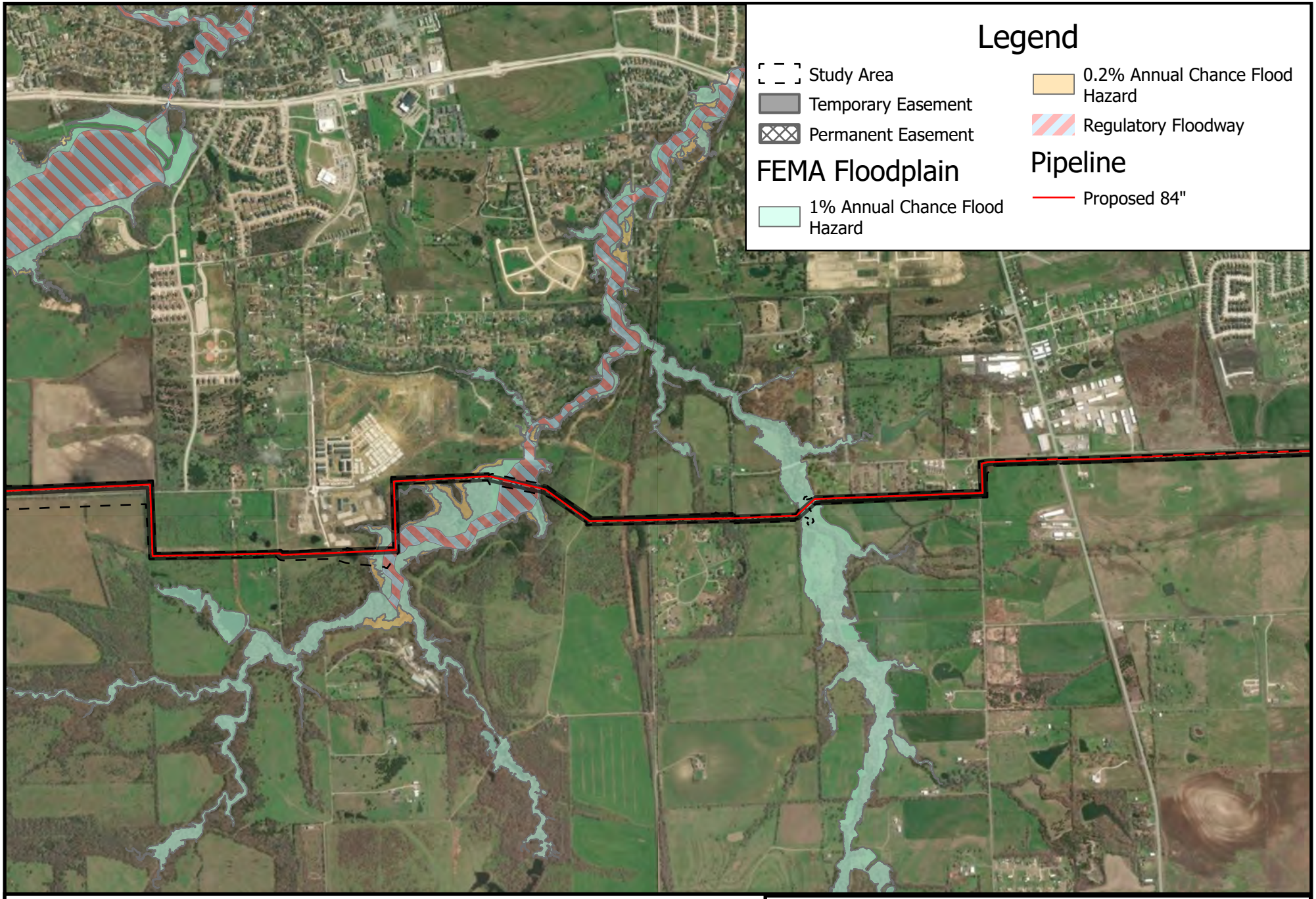


Figure 2e: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

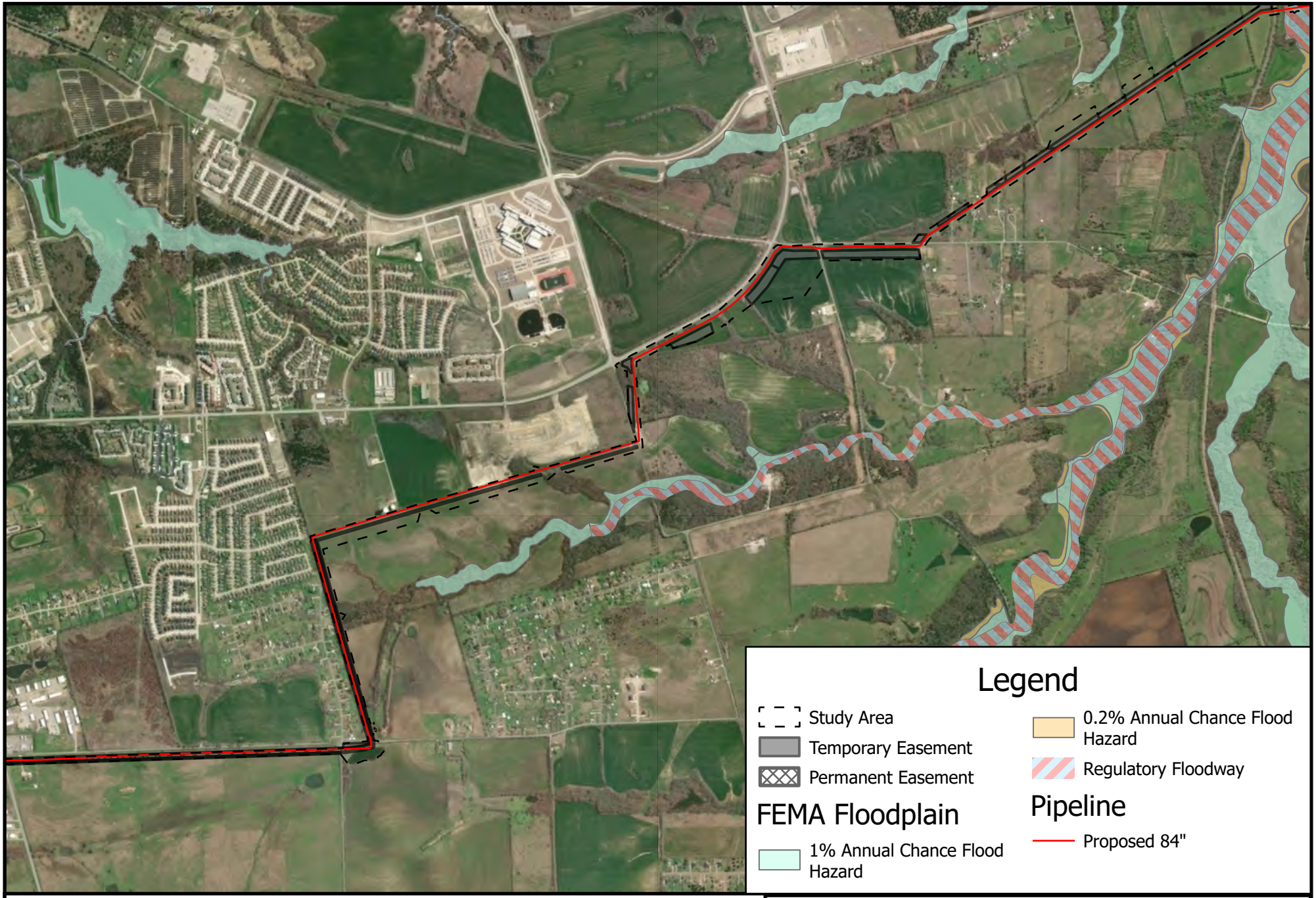


Figure 2f: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water
Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

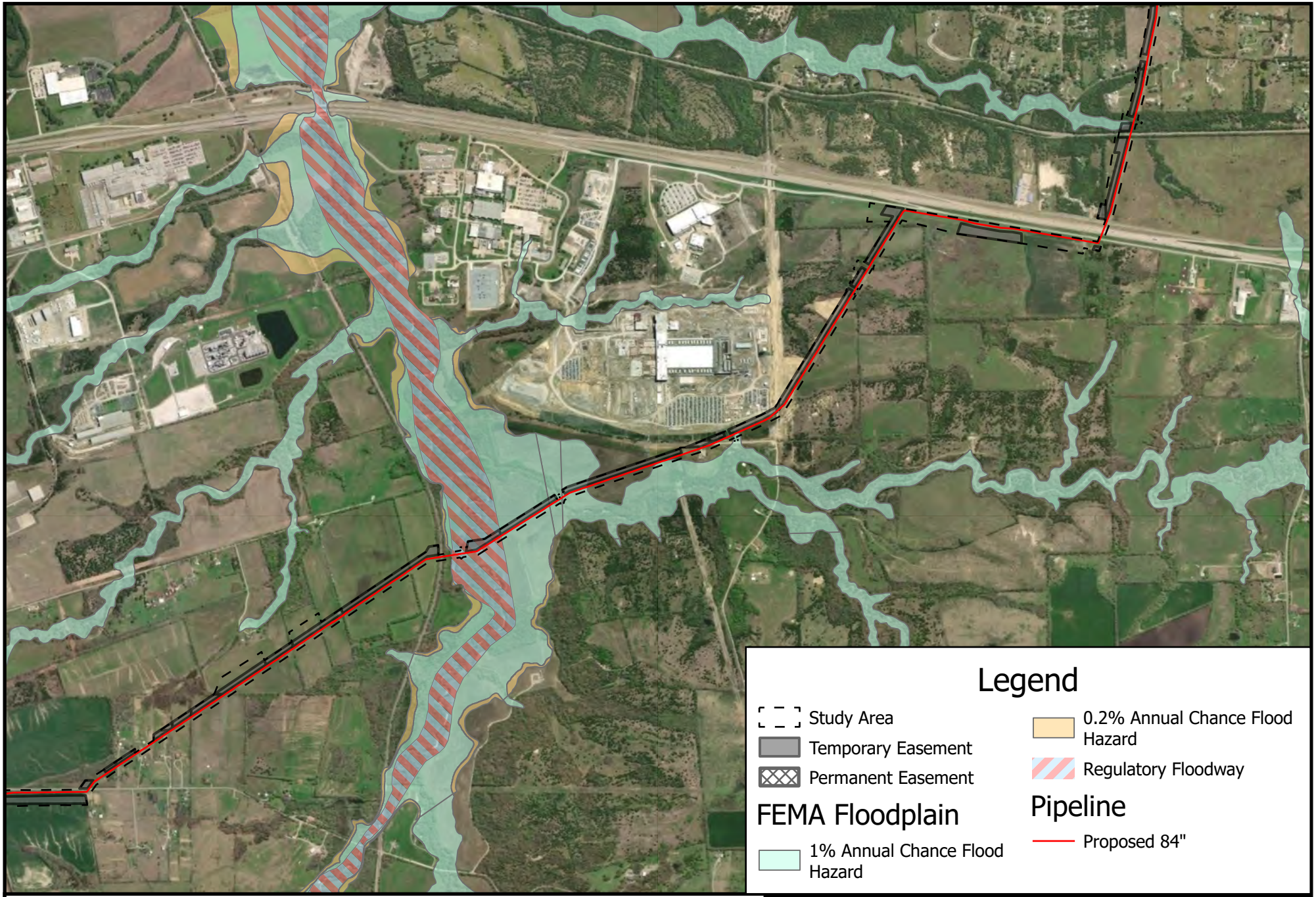


Figure 2g: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water
Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

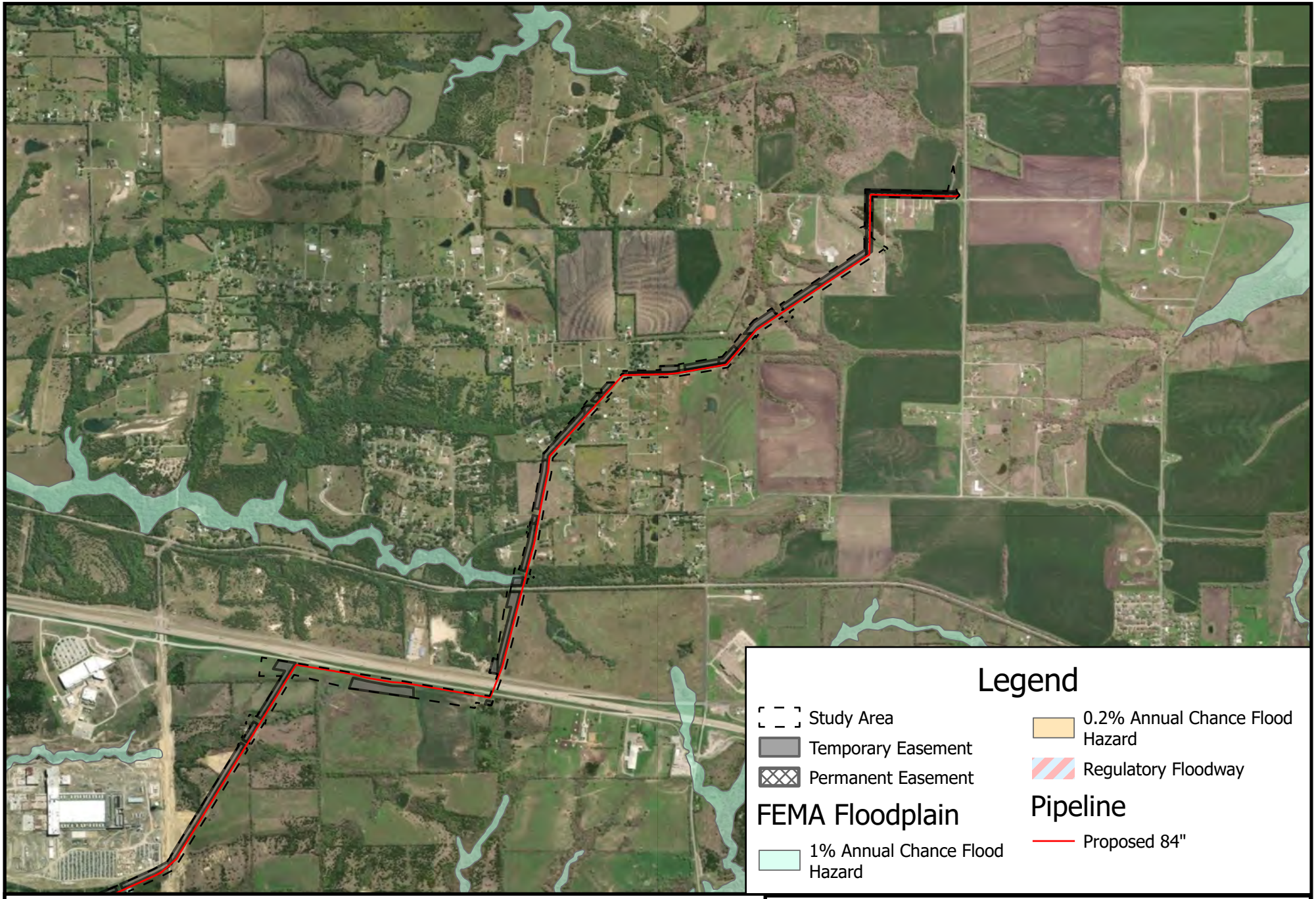


Figure 2h: FEMA FIRM Map
Grayson County

Source: FIRM FIRM Data for Grayson County (Accessed December 2025)

N

0 1,000 2,000
Feet

Texoma Raw Water
Pipeline 2 Project

1 inch = 2,000 feet
Scale: 1:24,000
Date: 12/04/2025

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Ephemeral Stream	WF-01	0.000	Temporary	No
Ephemeral Stream	WF-01	0.000	Permanent	No
Pond/Impoundment	WF-02	0.238	Temporary	No
Pond/Impoundment	WF-02	0.061	Permanent	No
Intermittent Stream	WF-04	0.003	Temporary	No
Intermittent Stream	WF-04	0.000	Permanent	No
Pond/Impoundment	WF-06	0.184	Temporary	No
Emergent Wetland	WF-07	0.128	Temporary	No

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-08	0.008	Temporary	No
Intermittent Stream	WF-08	0.002	Permanent	No

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-09	0.007	Temporary	No
Intermittent Stream	WF-09	0.002	Permanent	No

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

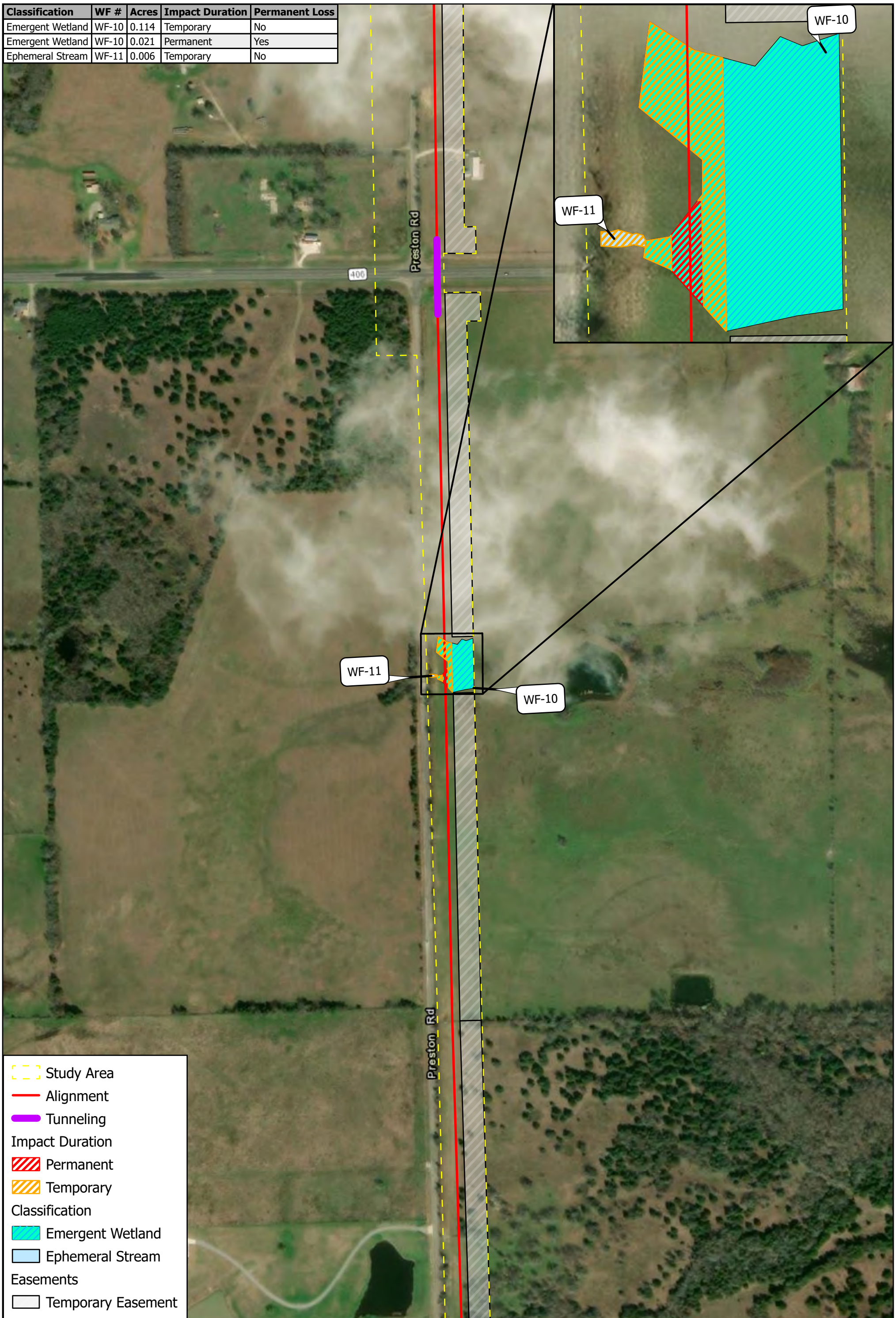
N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Emergent Wetland	WF-10	0.114	Temporary	No
Emergent Wetland	WF-10	0.021	Permanent	Yes
Ephemeral Stream	WF-11	0.006	Temporary	No



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

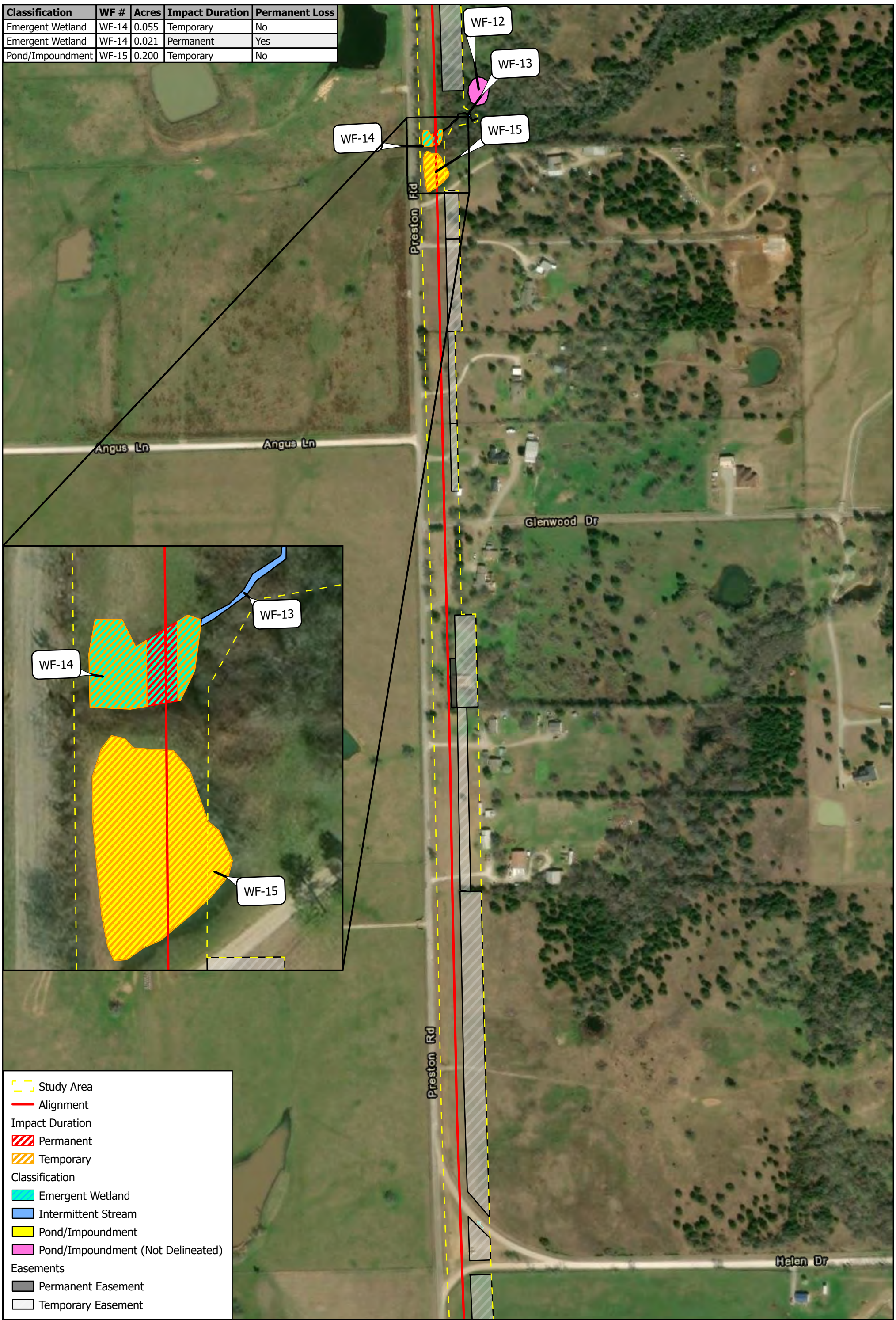
0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Emergent Wetland	WF-14	0.055	Temporary	No
Emergent Wetland	WF-14	0.021	Permanent	Yes
Pond/Impoundment	WF-15	0.200	Temporary	No



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Emergent Wetland	WF-16	0.144	Temporary	No

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

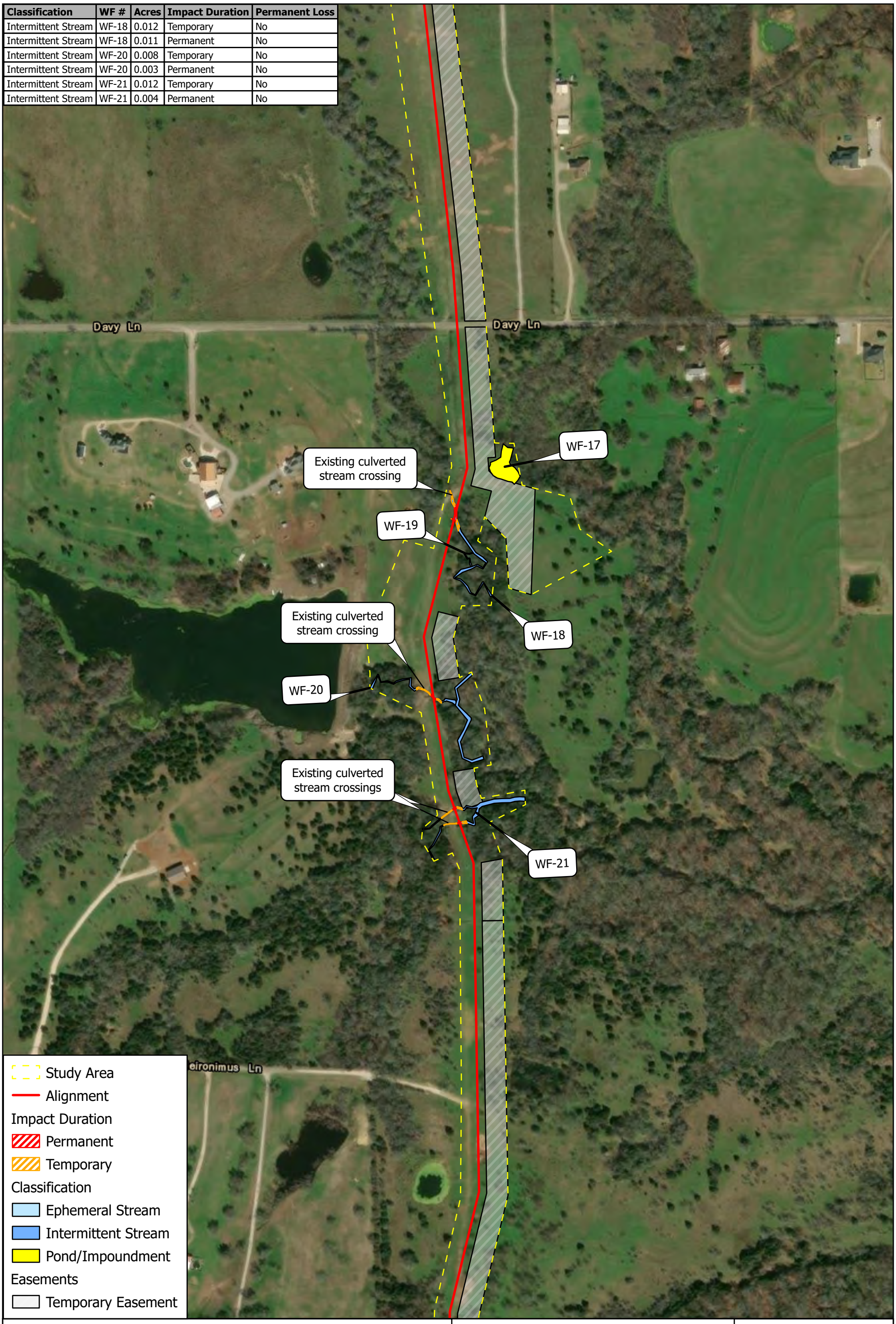
N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-18	0.012	Temporary	No
Intermittent Stream	WF-18	0.011	Permanent	No
Intermittent Stream	WF-20	0.008	Temporary	No
Intermittent Stream	WF-20	0.003	Permanent	No
Intermittent Stream	WF-21	0.012	Temporary	No
Intermittent Stream	WF-21	0.004	Permanent	No



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Ephemeral Stream	WF-22	0.001	Temporary	No
Ephemeral Stream	WF-22	0.000	Permanent	No
Intermittent Stream	WF-23	0.020	Temporary	No

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

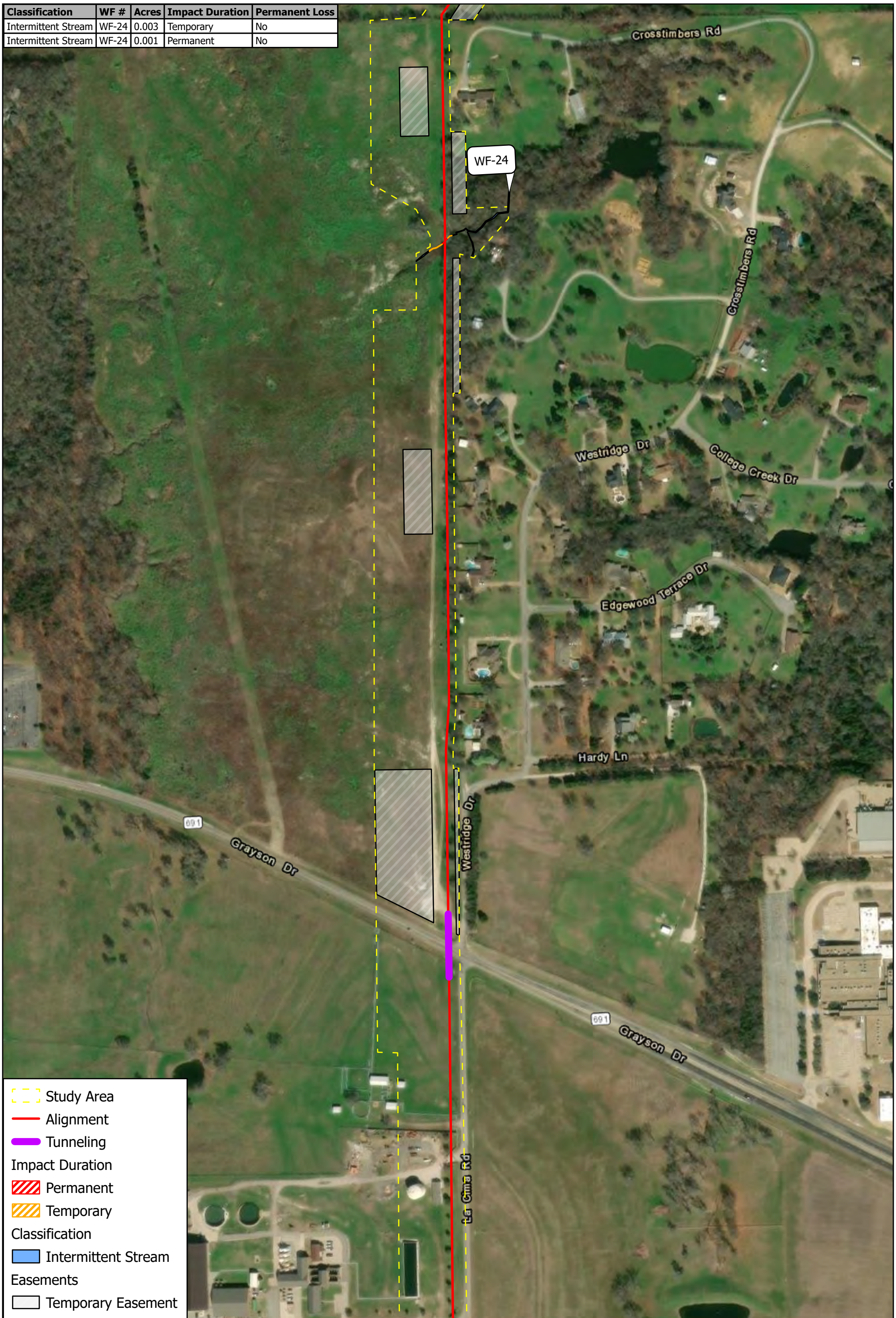
0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-24	0.003	Temporary	No
Intermittent Stream	WF-24	0.001	Permanent	No



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

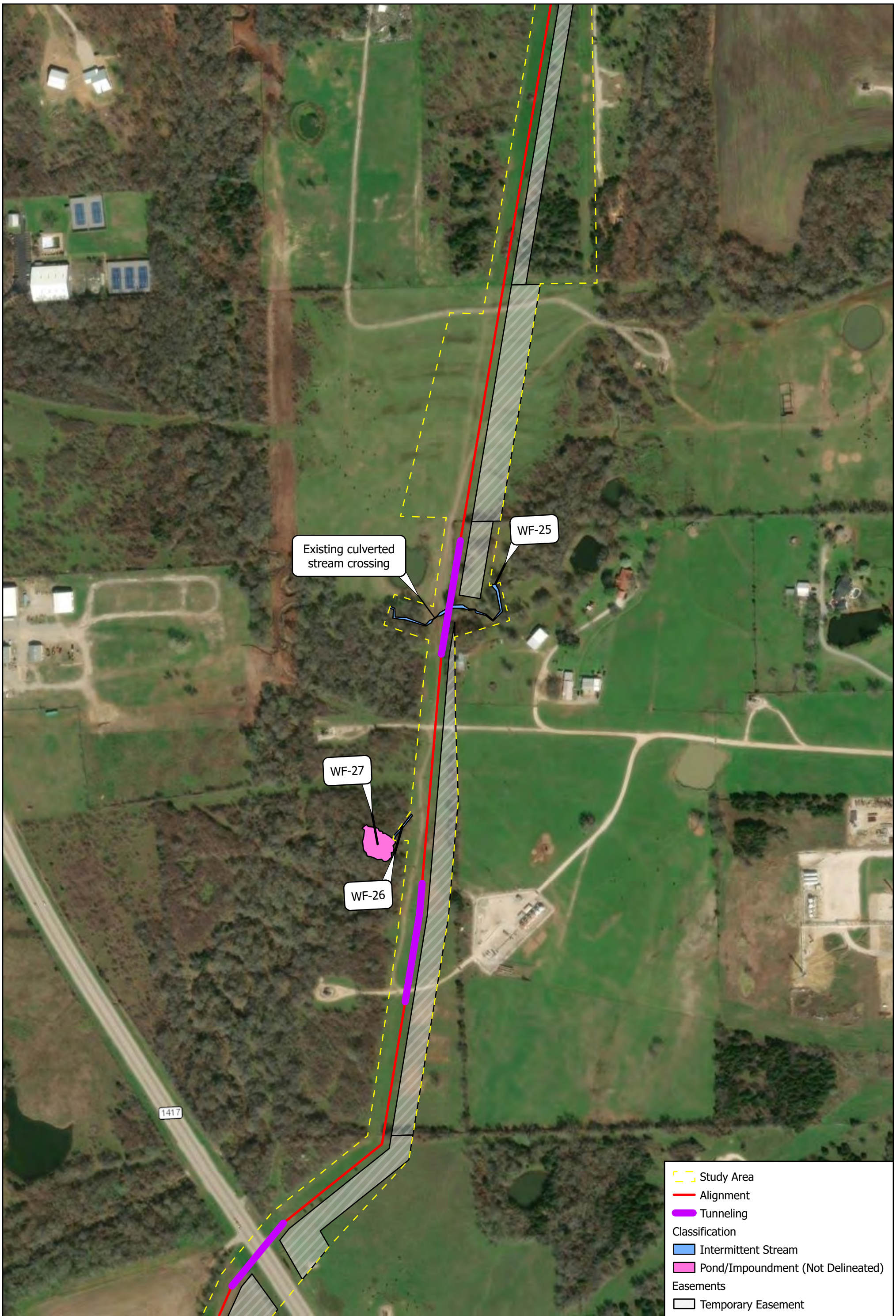
0 150 300 Feet

N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

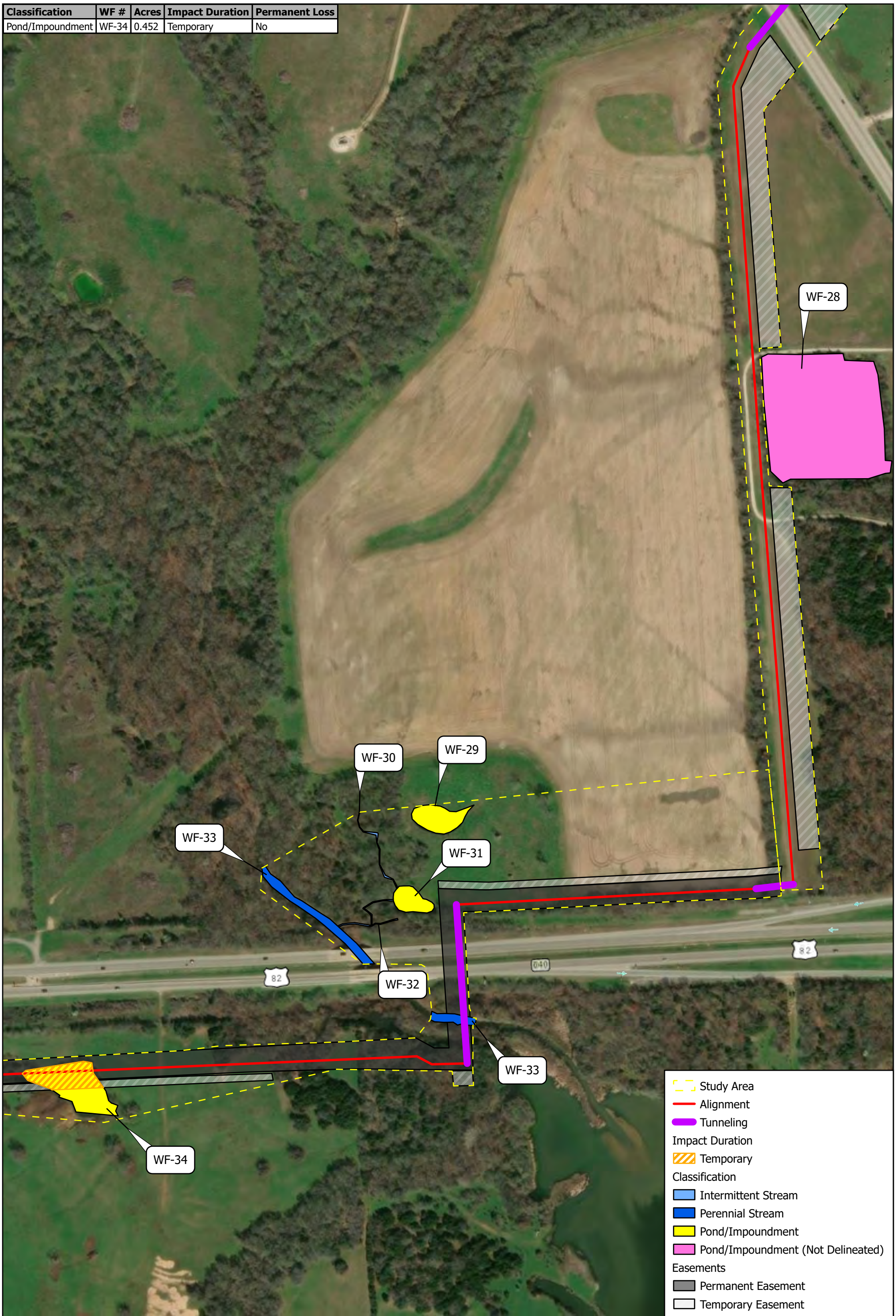
N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Pond/Impoundment	WF-34	0.452	Temporary	No



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

0 150 300 Feet

N

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Ephemeral Stream	WF-35	0.004	Temporary	No
Ephemeral Stream	WF-35	0.001	Permanent	No
Ephemeral Stream	WF-36	0.010	Temporary	No
Ephemeral Stream	WF-36	0.004	Permanent	No

Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

Source: ESRI World Imagery

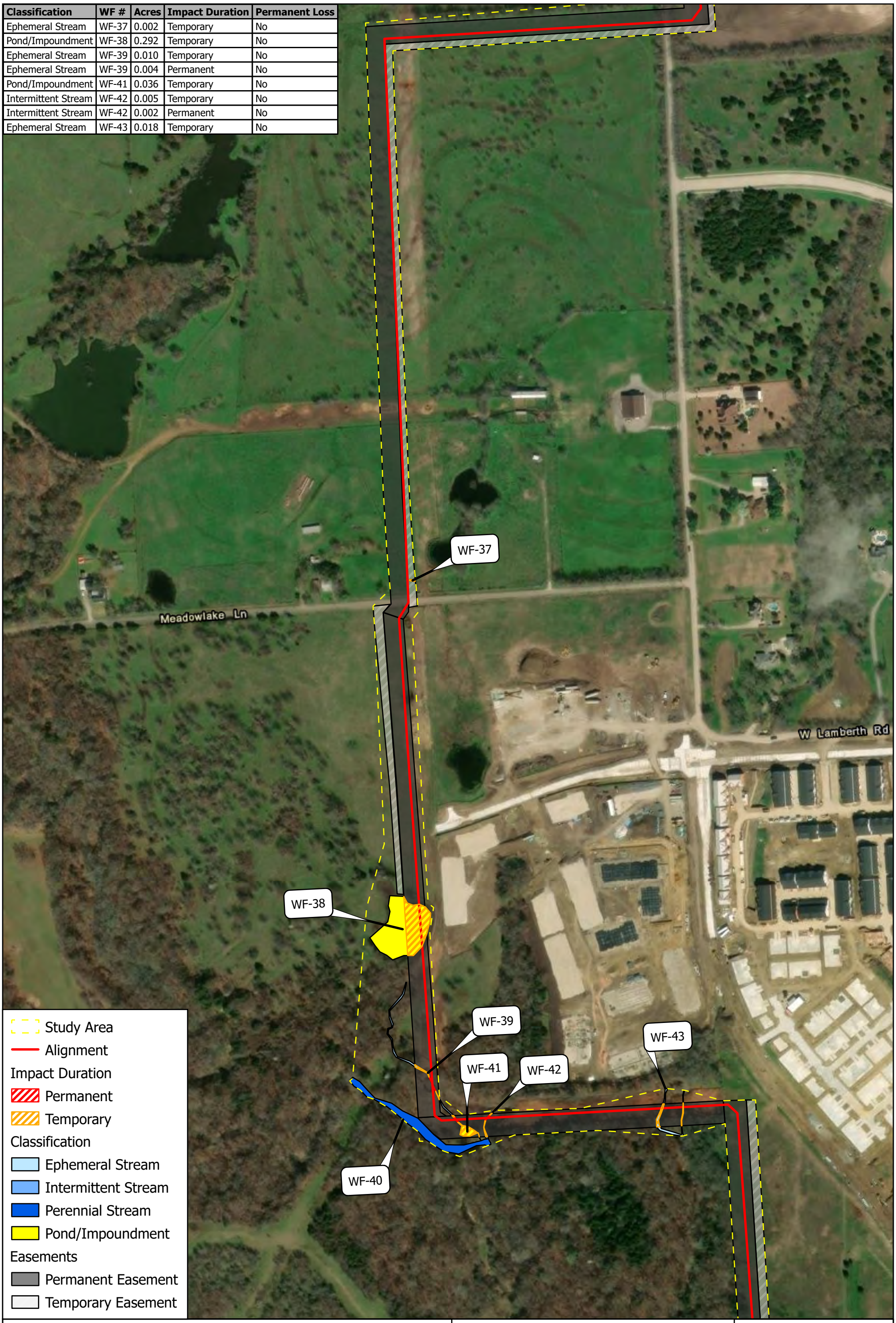
0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Ephemeral Stream	WF-37	0.002	Temporary	No
Pond/Impoundment	WF-38	0.292	Temporary	No
Ephemeral Stream	WF-39	0.010	Temporary	No
Ephemeral Stream	WF-39	0.004	Permanent	No
Pond/Impoundment	WF-41	0.036	Temporary	No
Intermittent Stream	WF-42	0.005	Temporary	No
Intermittent Stream	WF-42	0.002	Permanent	No
Ephemeral Stream	WF-43	0.018	Temporary	No



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

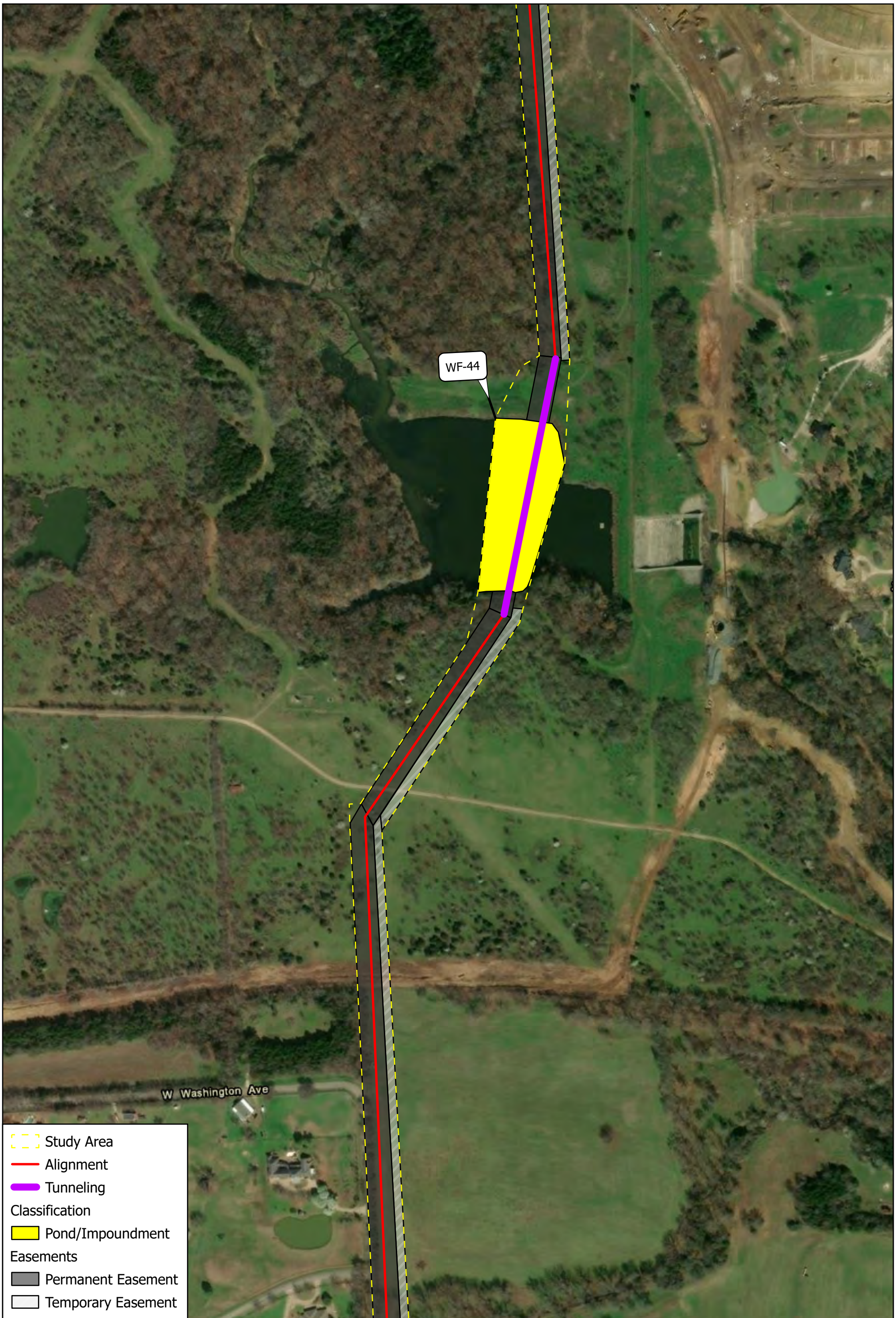
Source: ESRI World Imagery

0 150 300 Feet

1 inch = 300 feet

Scale: 1:3,600

Date: 2/5/2026



Texoma Raw Water Pipeline 2 Project
Section 404/10 Impacts Map
Grayson County

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0 150 300 Feet

N

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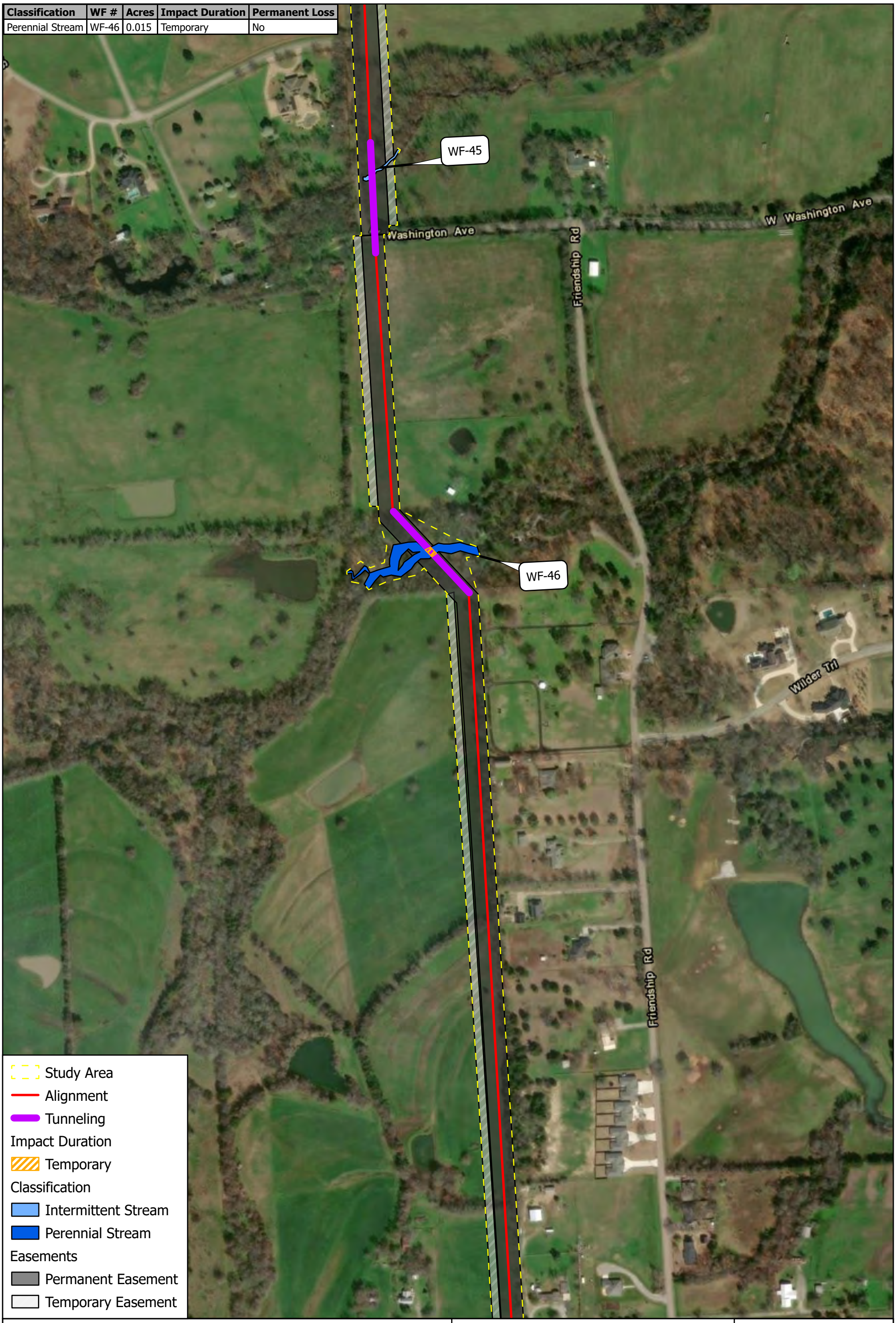
Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Perennial Stream	WF-46	0.015	Temporary	No



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Section 404/10 Impacts Map
Grayson County

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0 150 300 Feet

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Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Pond/Impoundment	WF-47	0.120	Temporary	No

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0 150 300 Feet

N

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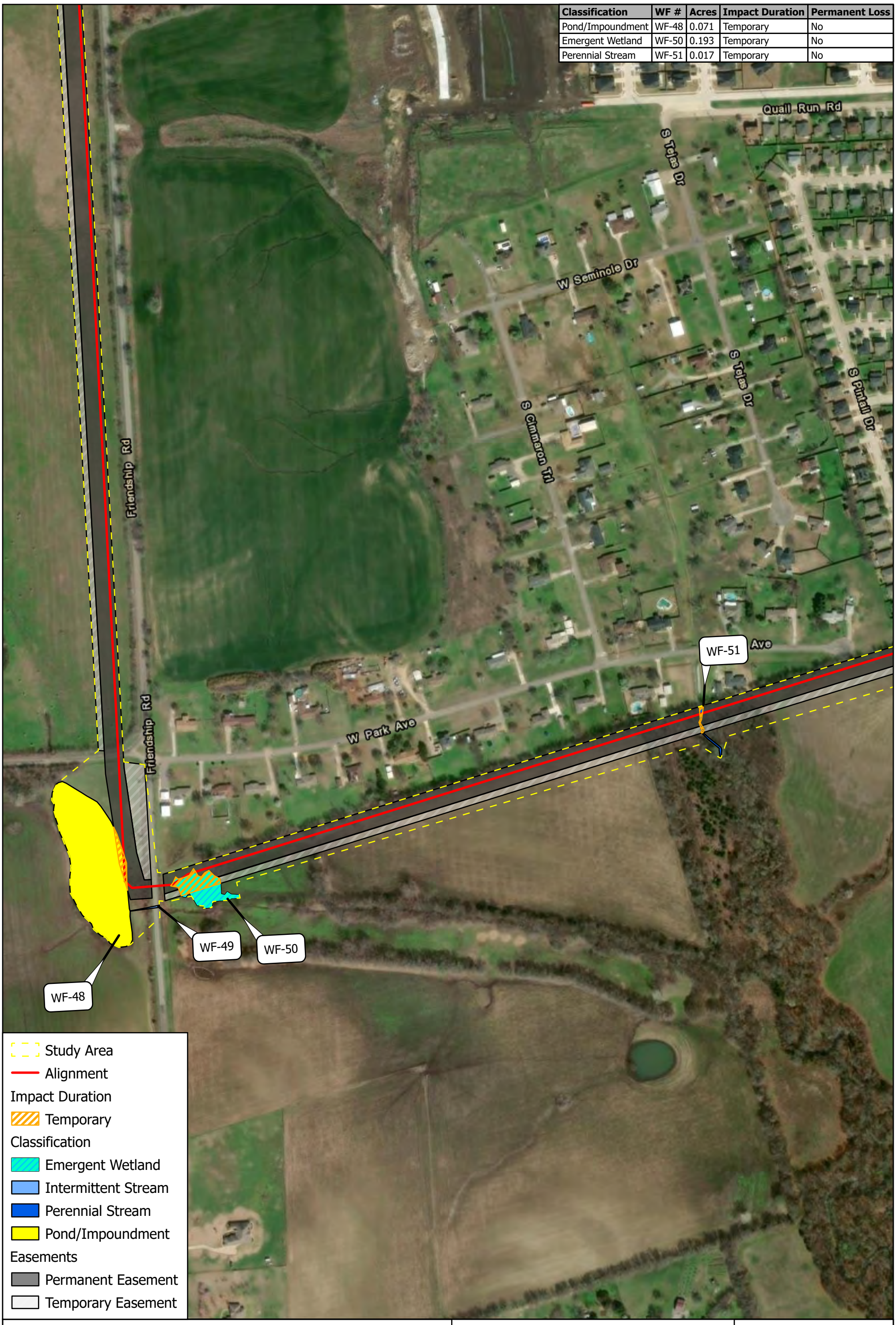
Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Pond/Impoundment	WF-48	0.071	Temporary	No
Emergent Wetland	WF-50	0.193	Temporary	No
Perennial Stream	WF-51	0.017	Temporary	No



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Grayson County

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Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-52	0.013	Temporary	No
Emergent Wetland	WF-53	0.373	Temporary	No

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Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-55	0.001	Temporary	No
Forested Wetland	WF-56	0.041	Permanent	No
Emergent Wetland	WF-57	0.048	Temporary	No
Ephemeral Stream	WF-58	0.007	Temporary	No

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0 150 300 Feet

N

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Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Emergent Wetland	WF-59	0.065	Temporary	No

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Grayson County

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Scale: 1:3,600

Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Perennial Stream	WF-61	0.007	Temporary	No
Ephemeral Stream	WF-62	0.020	Temporary	No
Intermittent Stream	WF-63	0.005	Temporary	No
Intermittent Stream	WF-63	0.001	Permanent	No

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Date: 2/5/2026

Classification	WF #	Acres	Impact Duration	Permanent Loss
Intermittent Stream	WF-64	0.004	Temporary	No
Intermittent Stream	WF-64	0.001	Permanent	No
Intermittent Stream	WF-65	0.008	Temporary	No
Intermittent Stream	WF-65	0.001	Permanent	No

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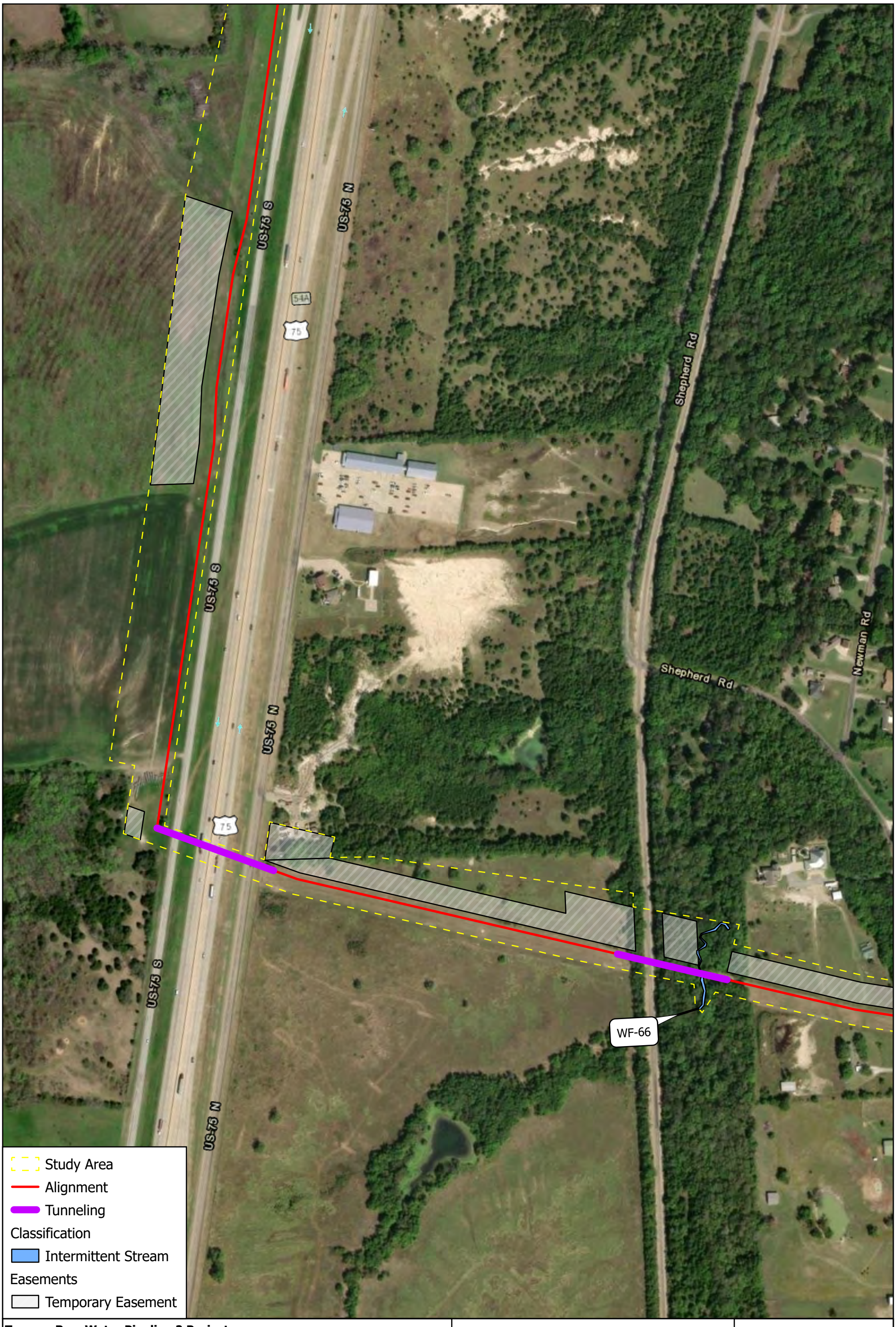

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Classification	WF #	Acres	Impact Duration	Permanent Loss
Ephemeral Stream	WF-67	0.006	Temporary	No
Ephemeral Stream	WF-68	0.019	Temporary	No
Intermittent Stream	WF-70	0.009	Temporary	No
Intermittent Stream	WF-70	0.006	Permanent	No
Emergent Wetland	WF-71	0.006	Temporary	No

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Classification	WF #	Acres	Impact Duration	Permanent Loss
Ephemeral Stream	WF-72	0.005	Temporary	No
Intermittent Stream	WF-73	0.004	Temporary	No
Intermittent Stream	WF-73	0.001	Permanent	No
Intermittent Stream	WF-74	0.010	Temporary	No
Intermittent Stream	WF-75	0.007	Temporary	No
Intermittent Stream	WF-75	0.003	Permanent	No
Intermittent Stream	WF-76	0.012	Temporary	No
Intermittent Stream	WF-76	0.001	Permanent	No

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