P.O. Box 13231, 1700 N. Congress Ave.
Austin, TX 78711-3231, www.twdb.texas.gov
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: 2026.07.27 14:06:05 -05'00'

SUBJECT: North Texas Municipal Water District, Fannin County, Texas
TWDB SWIFT Project No. 51103
North System Raw Water Pipelines
PN642
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 9-mile pipeline between the Leonard WTP and the Texoma-to-Wylie RWPL, which is identified by the District as PN642.

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 impacts 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 March 13, 2026, with the supplementary materials submitted to the TWDB on July 2, 2026, the project meets the requirements of 31 TAC § 363.14 with the following special and standard environmental conditions:

<u>Special Environmental Conditions</u>

- To avoid potential impacts to habitat for the Texas fawnsfoot (*Truncilla macrodon*) and alligator snapping turtle (*Macrochelys temminckii*), waterline crossings of large waterbodies, specifically Stream 2 - Pot Rack Creek, Stream 9 - Delba Creek, and

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unnamed Stream 13, as identified in the January 5, 2026, Freese and Nichols, Inc. Aquatic Resources Delineation Report will be performed by a trenchless method, with bore pits located outside aquatic habitat.

- 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, which includes the following two special conditions related to wetland mitigation (USACE Project No. SWF-2025-00119).
    - The permittee shall implement and abide by the mitigation plan titled “Conceptual Mitigation Plan" prepared by Freese & Nichols, received September 23, 2025, except where changes are necessary to comply with special conditions listed below. The permittee shall implement the mitigation plan concurrently with the construction of the project. Completion of all elements of this mitigation plan is a requirement of this permit.
    - The permittee shall debit 0.08 credit from the Arnold Creek Mitigation Bank, in compliance with the provisions of "Mitigation Banking Instrument, SWF-2018-00121, Arnold Creek Mitigation Bank” dated March 14, 2022. This debit shall compensate offsite for unavoidable adverse project impacts that would not be compensated for by onsite mitigation. The permittee shall complete the mitigation bank transaction and provide documentation to the USACE that the transaction has occurred prior to commencing any ground-disturbing activity within waters of the United States.

- As per an agreement with the Texas Parks and Wildlife Department (TPWD), Ecological & Environmental Planning Program (TPWD Project No. 57460), to ensure compliance with Chapters 12, 57, 64, 67, and 68 of the Texas Parks and Wildlife Code, and the Endangered Species Act of 1973, as amended, the Migratory Bird Treaty Act, and applicable federal regulations pertaining to bird, mammal, crustacean, amphibian, insect, and reptile species of greatest conservation need, the state-listed threatened wood stork (*Mycteria americana*), and the federally proposed threatened species, Monarch butterfly (*Danaus plexippus*), the following measures will be implemented:
    - Vegetation clearing must be excluded during the general bird nesting season and hoary bat (*Lasiurus cinereus*) pupping season, March 15 through September 15, to avoid adverse impacts to breeding birds and bats. If vegetation clearing during this time is unavoidable, the area proposed for disturbance will be surveyed by a qualified biologist to identify occupied nests and pupping habitat, not more than five days prior to clearing activities. If occupied nests or bat roosts or hibernacula are observed during surveys, a vegetation buffer area of no less than 100 feet in diameter will remain around the nest or roost 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 United States Fish and Wildlife Service (USFWS) office.
    - If the project area downstream of the pool in Stream 6, Indian Creek, as demonstrated in the map attached to this construction contract, is anticipated to be inundated during construction activities, the North Texas Municipal Water District (District) will stop work and conduct a mussel survey as well as

coordinate with the TPWD Kills and Spills Team (KAST) prior to the recommencement of project activities at this site. Survey reports will be submitted to the TWDB.

- 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 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.
- 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.
- If wildlife are encountered, the animals will be allowed to leave the area safely. State and federally listed species will be handled only by persons with authorization obtained through TPWD.

- A Storm Water Pollution Prevention Plan (SWPPP) will be prepared and implemented to eliminate sediment in stormwater runoff from the construction areas, to include best management practices (BMPs) such as silt fences, hay bales, fiber logs, and berms.

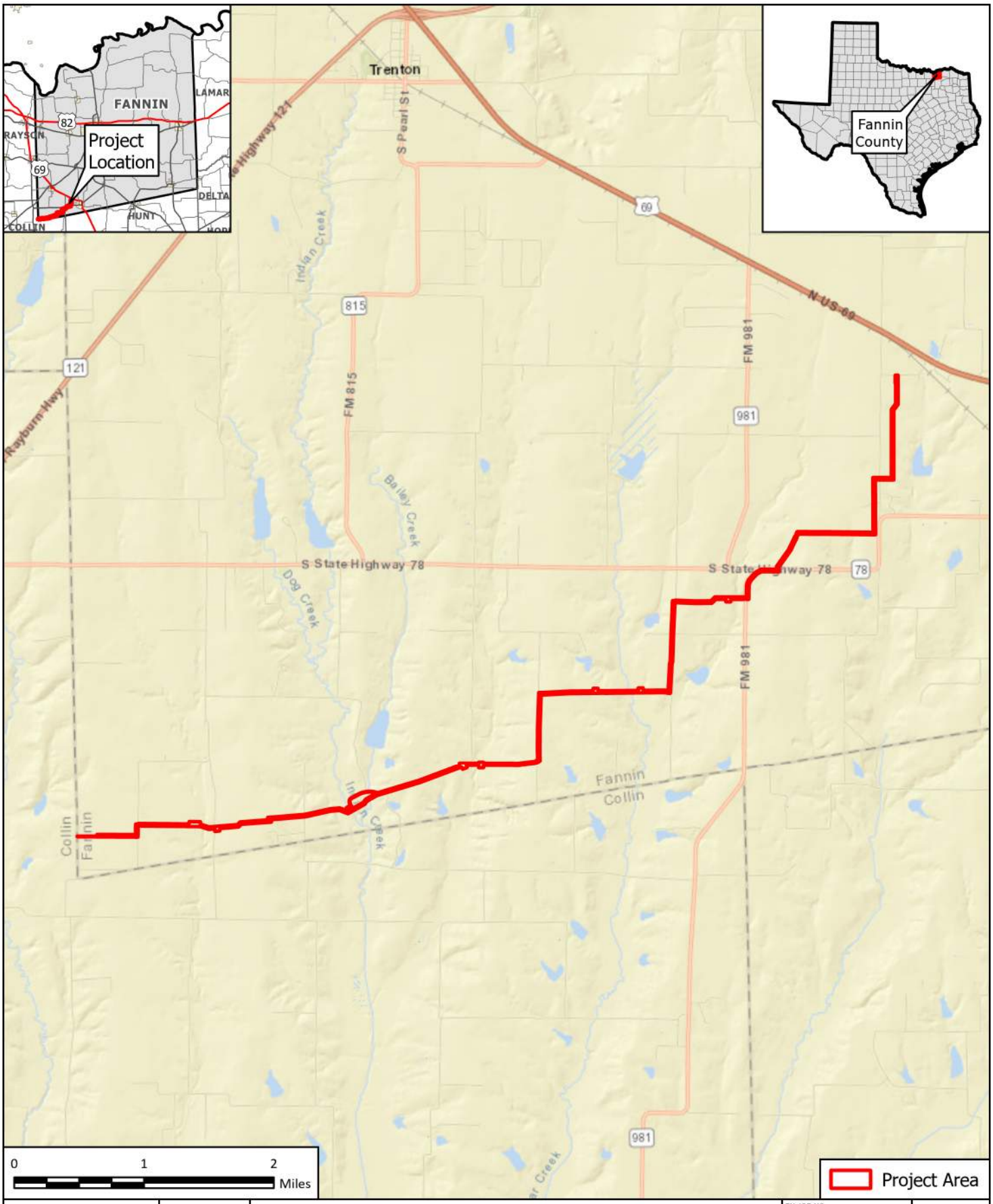
<u>Standard Environmental Conditions</u>

- 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



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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Regional Location Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig1_Overview
DATE	4/30/2026
DESIGNED	MK
DRAFTED	HM

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FIGURE

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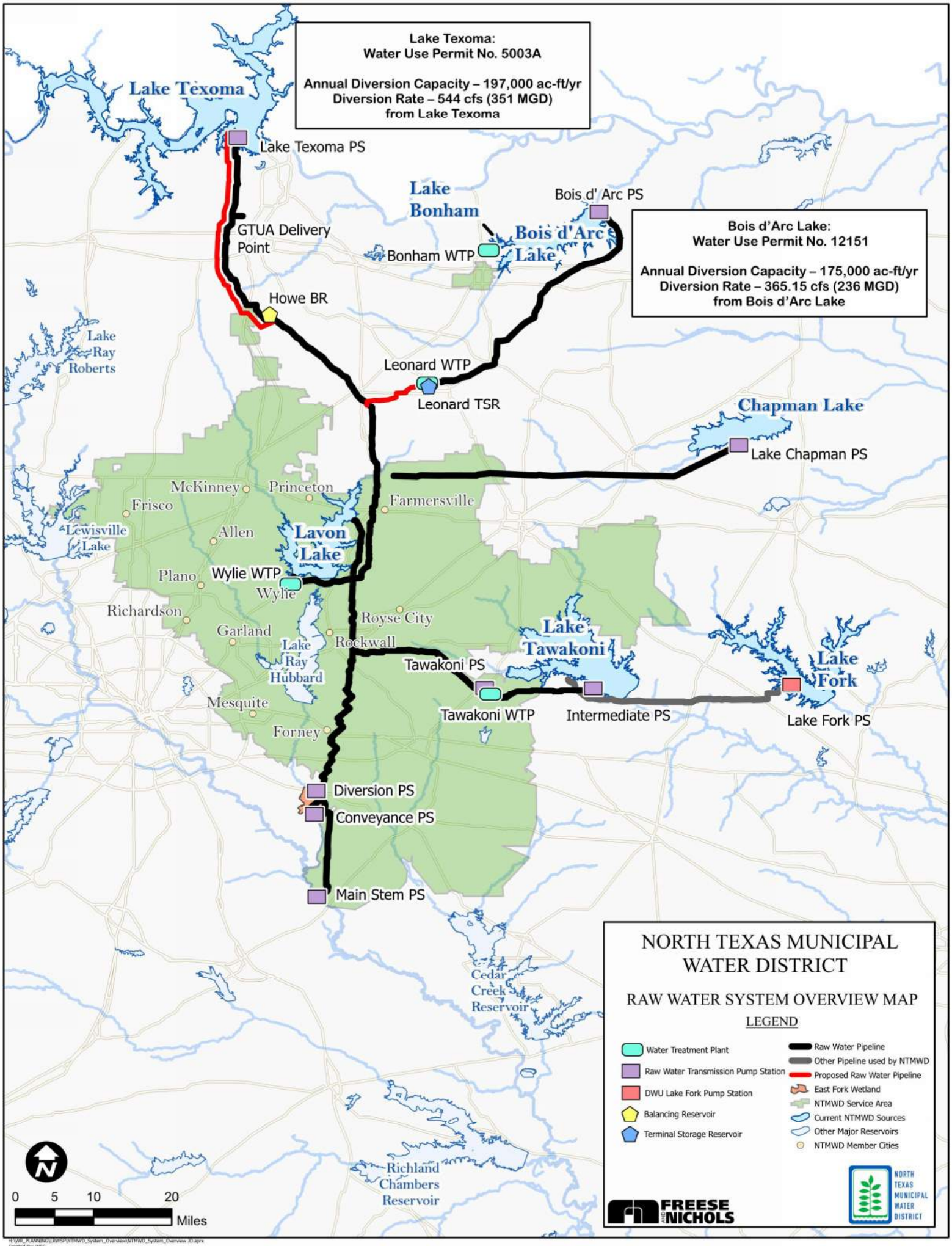
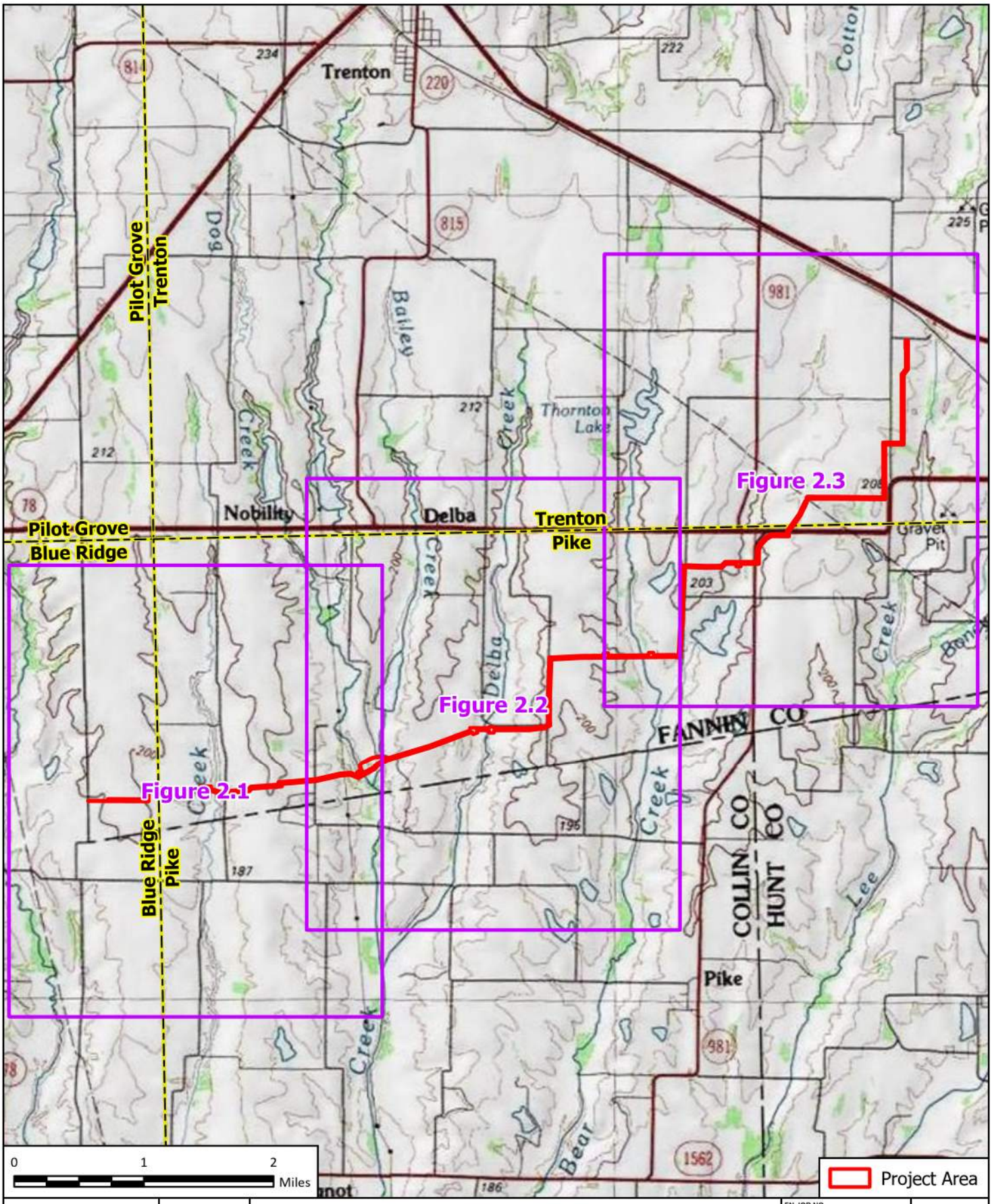

Lake Texoma:
Water Use Permit No. 5003A
Annual Diversion Capacity – 197,000 ac-ft/yr
Diversion Rate – 544 cfs (351 MGD)
from Lake Texoma
Lake Texoma
Lake Texoma PS
GTUA Delivery Point
Lake Bonham
Bois d' Arc PS
Bois d'Arc Lake
Bonham WTP
Bois d'Arc Lake:
Water Use Permit No. 12151
Annual Diversion Capacity – 175,000 ac-ft/yr
Diversion Rate – 365.15 cfs (236 MGD)
from Bois d'Arc Lake
Howe BR
Lake Ray Roberts
Leonard WTP
Leonard TSR
Chapman Lake
Lake Chapman PS
McKinney
Princeton
Frisco
Farmersville
Lewisville Lake
Allen
Lavon Lake
Plano
Wylie WTP
Wylie
Richardson
Royse City
Garland
Rockwall
Lake Ray Hubbard
Lake Tawakoni
Lake Fork
Tawakoni PS
Tawakoni WTP
Intermediate PS
Lake Fork PS
Mesquite
Forney
Diversion PS
Conveyance PS
Main Stem PS
Cedar Creek Reservoir
Richland Chambers Reservoir
0 5 10 20
Miles
NORTH TEXAS MUNICIPAL WATER DISTRICT
RAW WATER SYSTEM OVERVIEW MAP
LEGEND
Water Treatment Plant
Raw Water Transmission Pump Station
DWU Lake Fork Pump Station
Balancing Reservoir
Terminal Storage Reservoir
Raw Water Pipeline
Other Pipeline used by NTMWD
Proposed Raw Water Pipeline
East Fork Wetland
NTMWD Service Area
Current NTMWD Sources
Other Major Reservoirs
NTMWD Member Cities
FREESE AND NICHOLS
NORTH TEXAS MUNICIPAL WATER DISTRICT



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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

USGS Topographic Map

Quad Name:Blue Ridge/Pike/Trenton

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Topo
DATE	4/30/2026
DESIGNED	MK
DRAFTED	HM

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FIGURE

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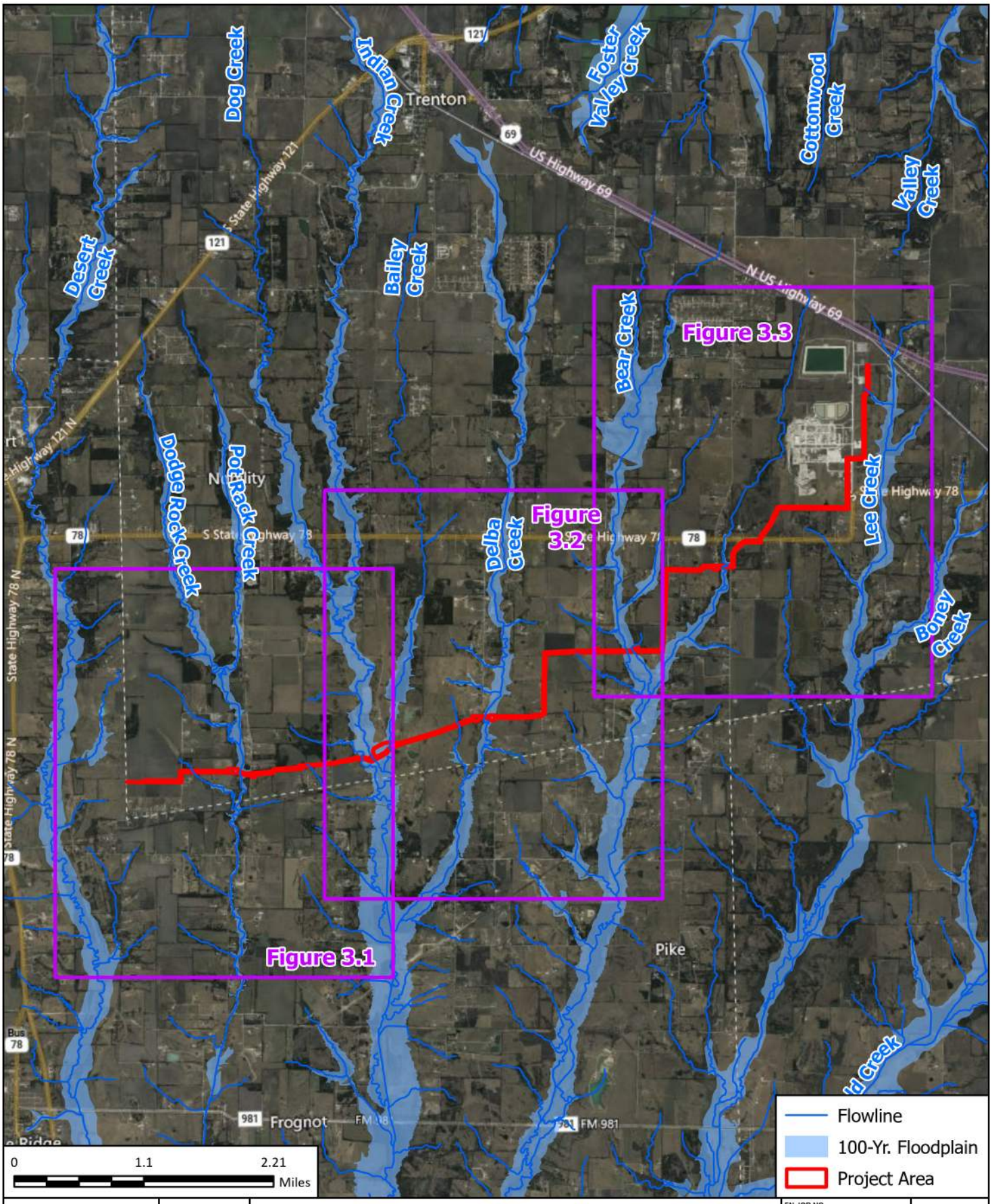

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Texoma RWPL to Leonard WTP

FEMA 100-Yr. Floodplain Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig3_Flood
DATE	4/30/2026
DESIGNED	MK
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FIGURE

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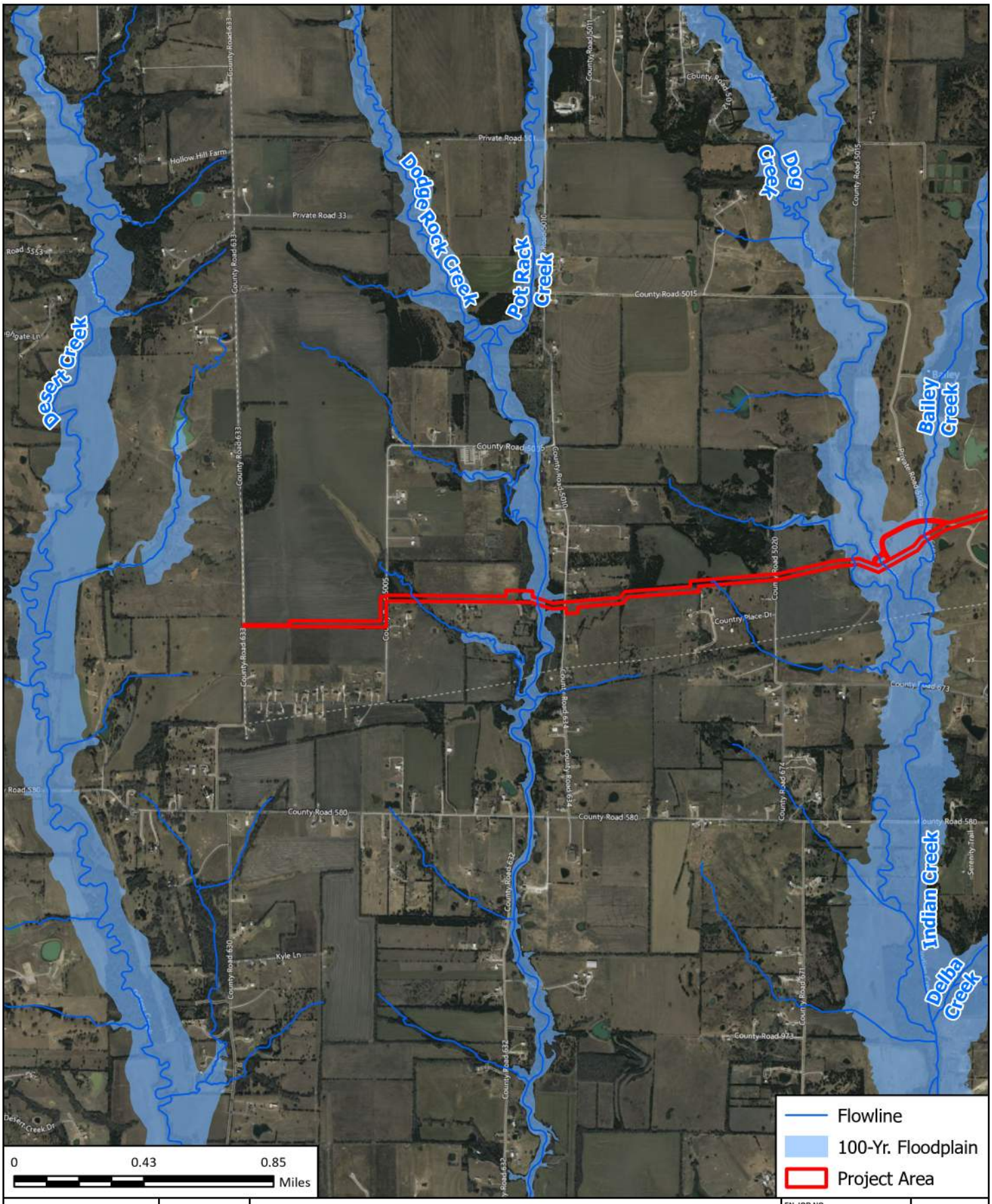

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

FEMA 100-Yr. Floodplain Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig3_Flood
DATE	4/30/2026
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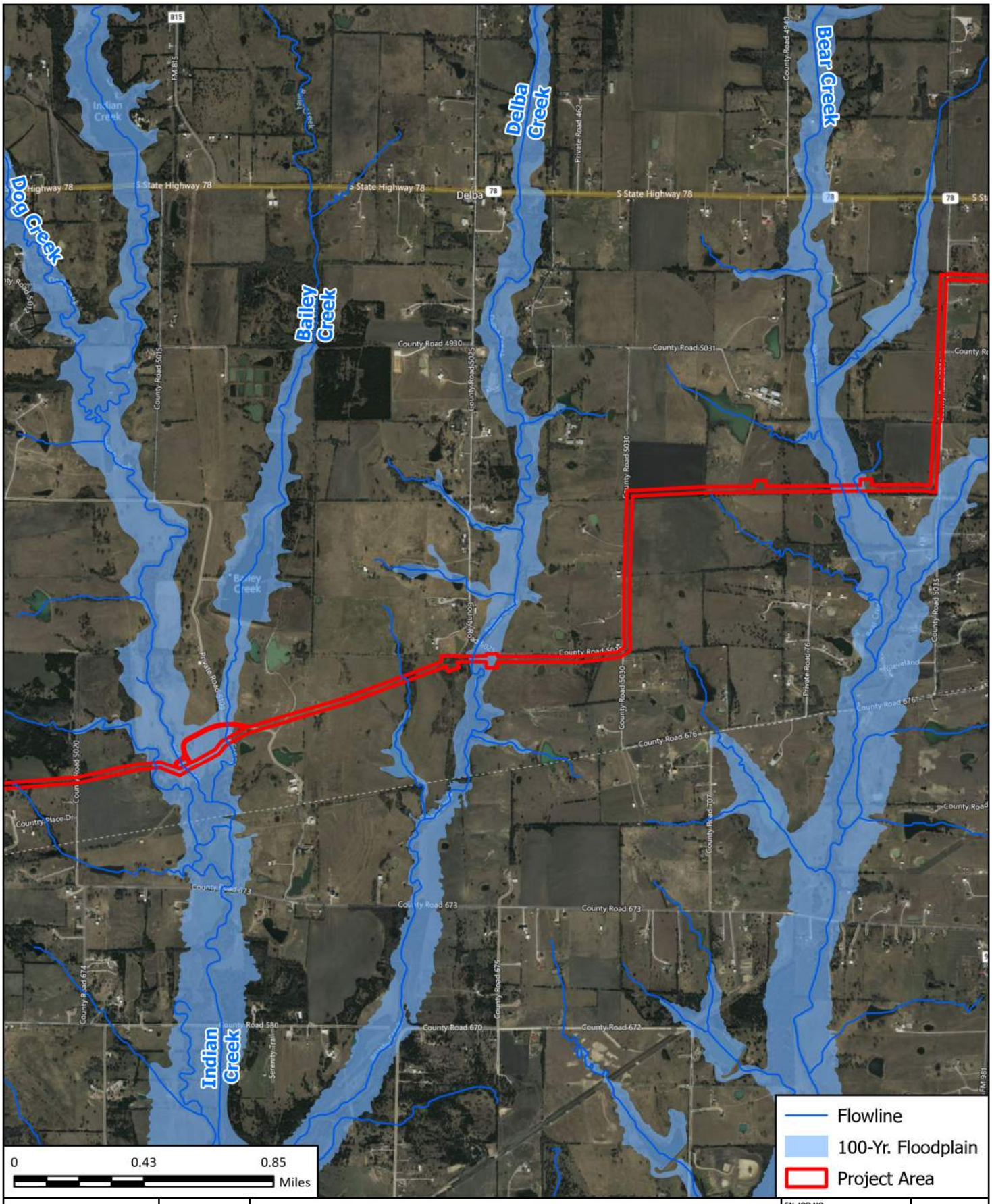

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

FEMA 100-Yr. Floodplain Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig3_Flood
DATE	4/30/2026
DESIGNED	MK
DRAFTED	HM

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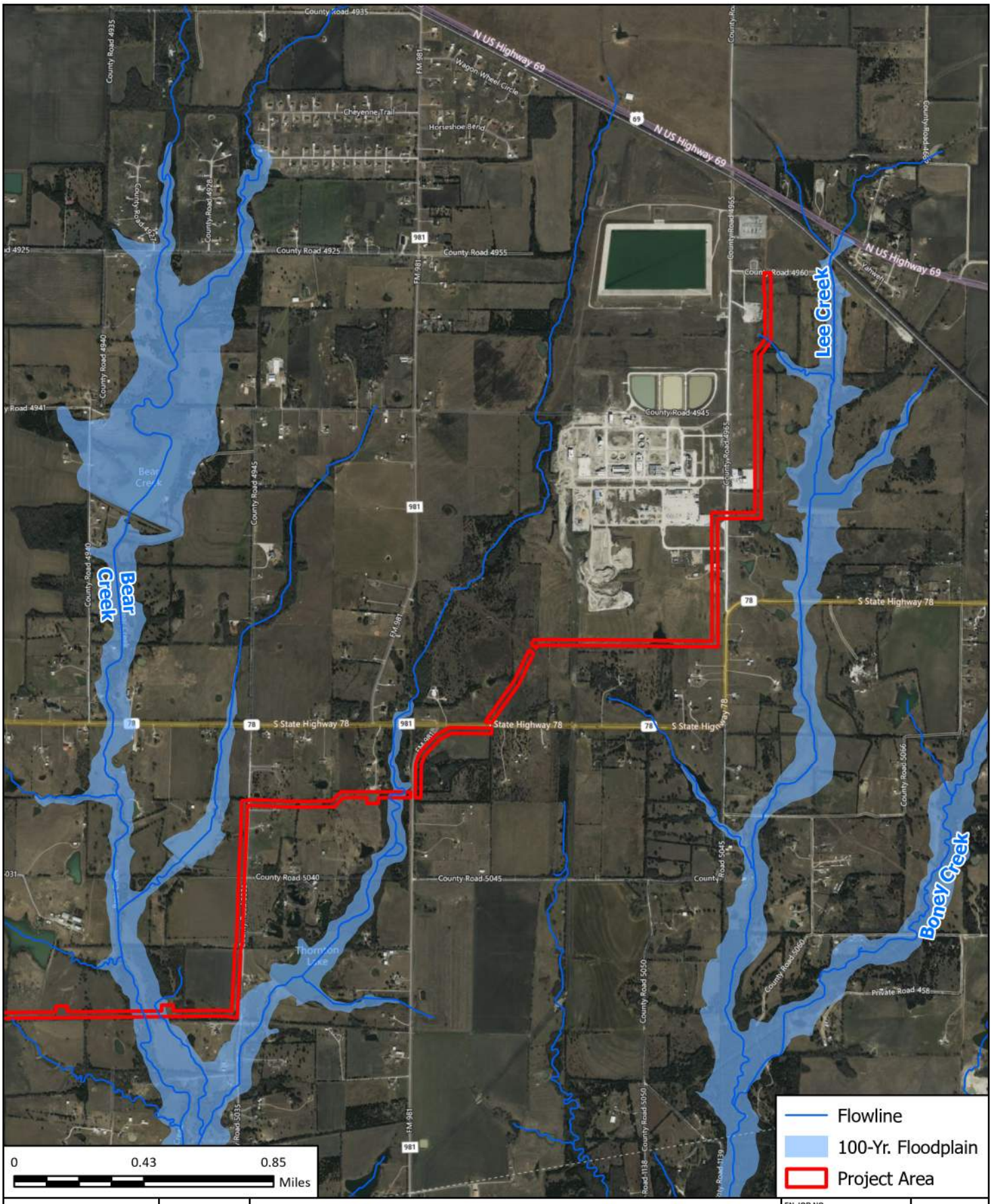

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

FEMA 100-Yr. Floodplain Map

FN JOB NO	NTD24059
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DESIGNED	MK
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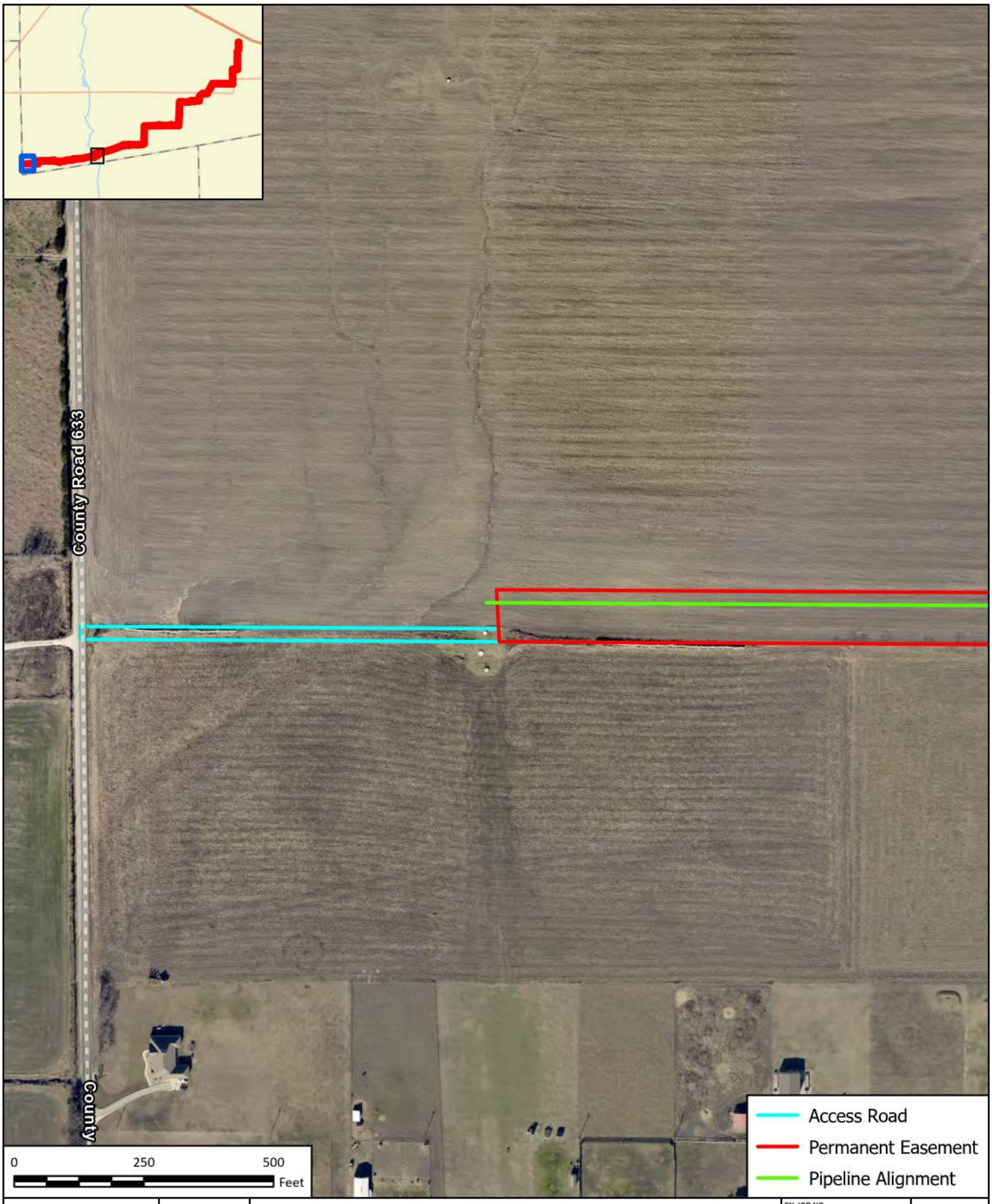

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Access Road Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig4_Access Roads
DATE	4/30/2026
DESIGNED	MK
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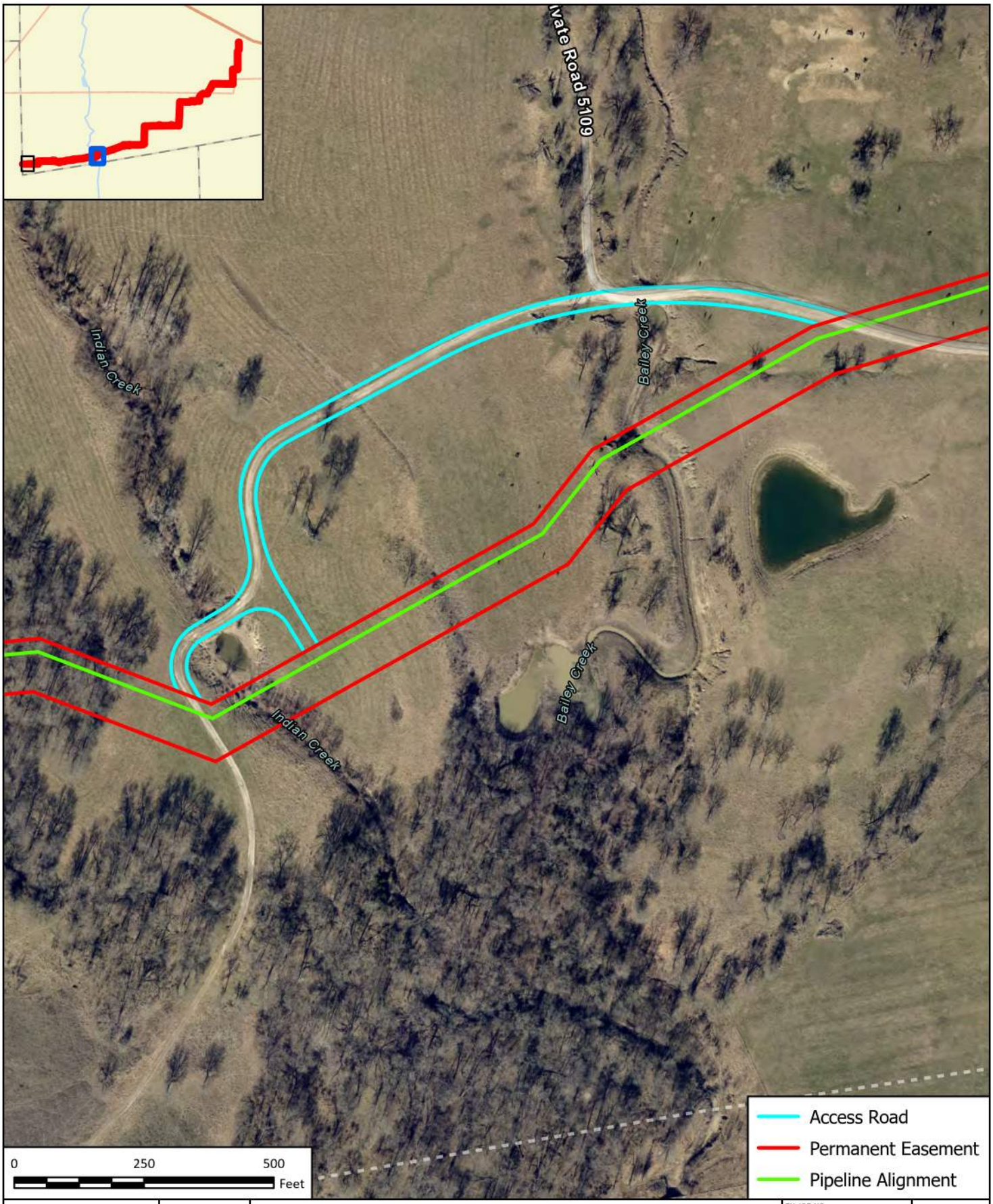

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Texoma RWPL to Leonard WTP

Access Road Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig4_Access Roads
DATE	4/30/2026
DESIGNED	MK
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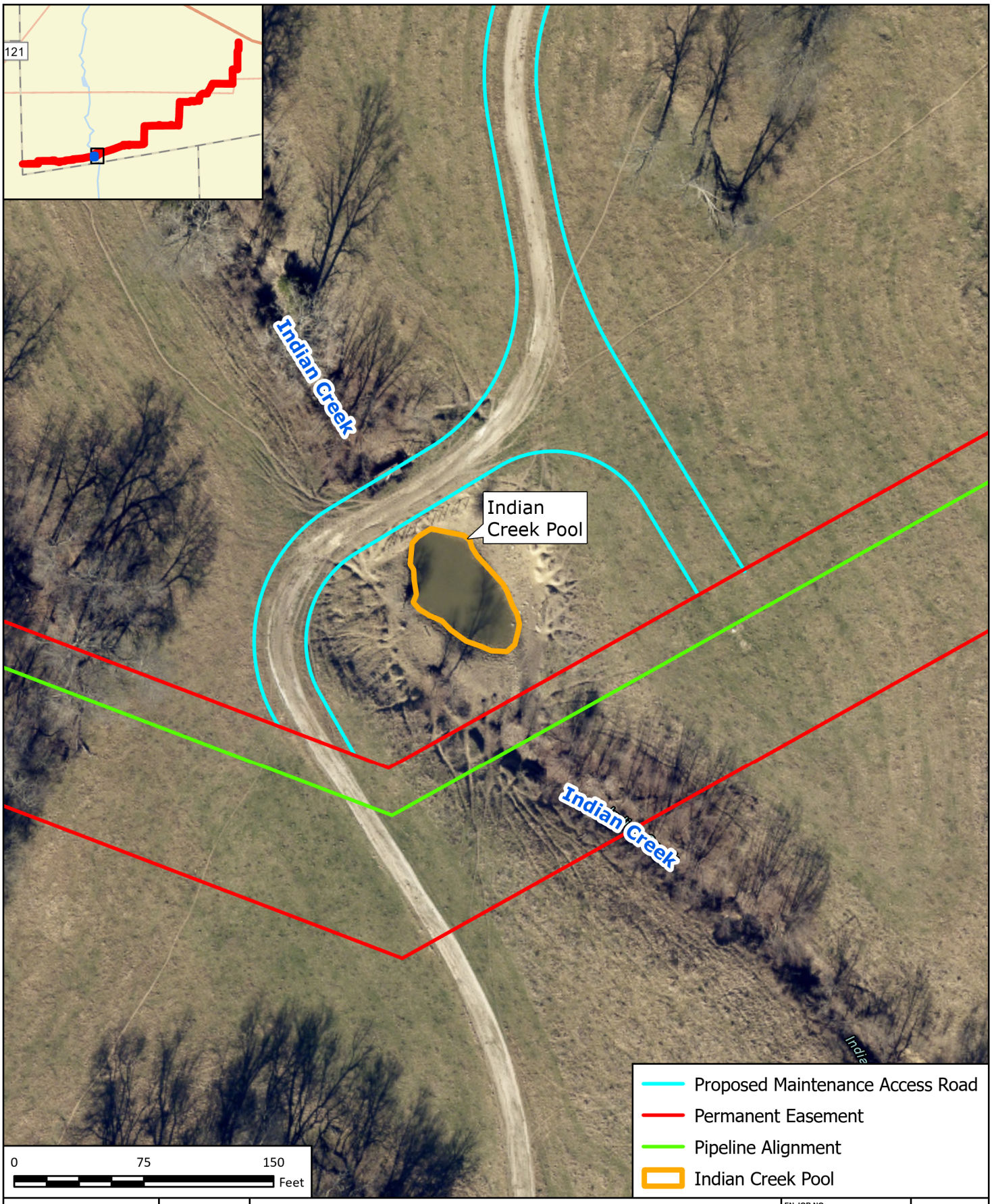

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

KAST Survey Area Recommendation

FN JOB NO	NTD24059
LAYOUT NAME	Fig5_IndianCreekPool
DATE	6/28/2026
DESIGNED	MK
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Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Impacts
DATE	12/23/2025
DESIGNED	MK
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Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

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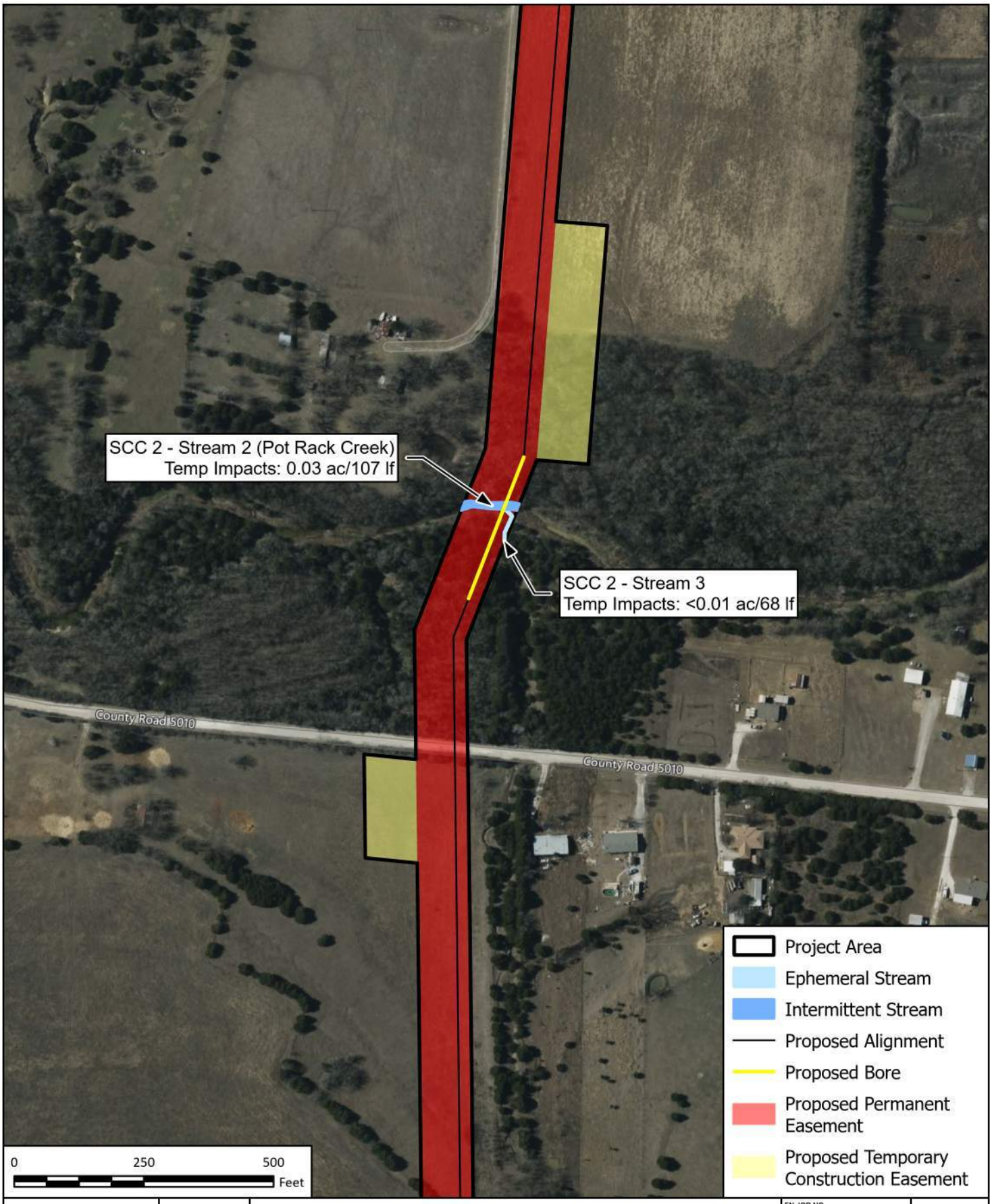

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Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

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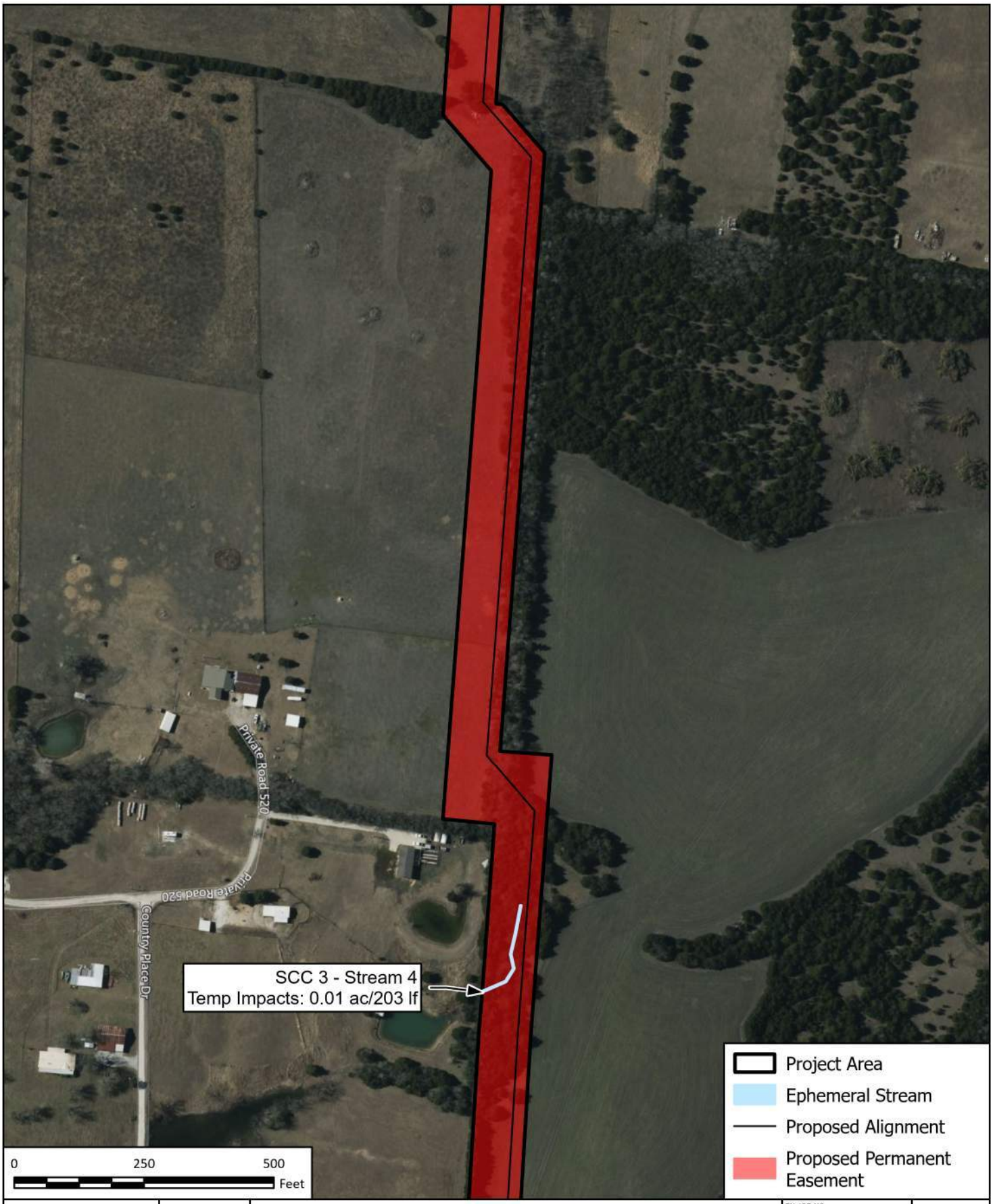

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
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DATE	12/23/2025
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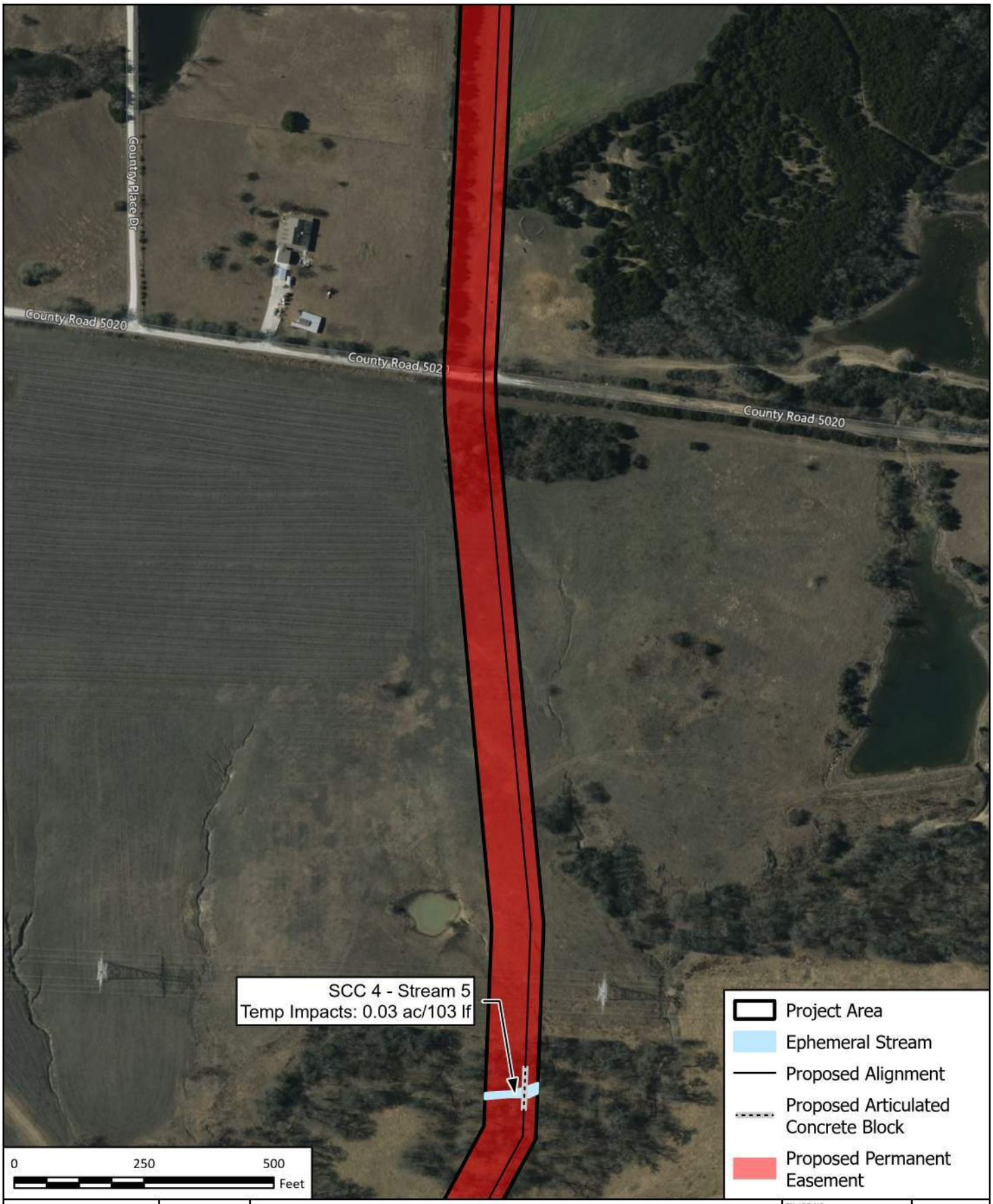

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Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Impacts
DATE	12/23/2025
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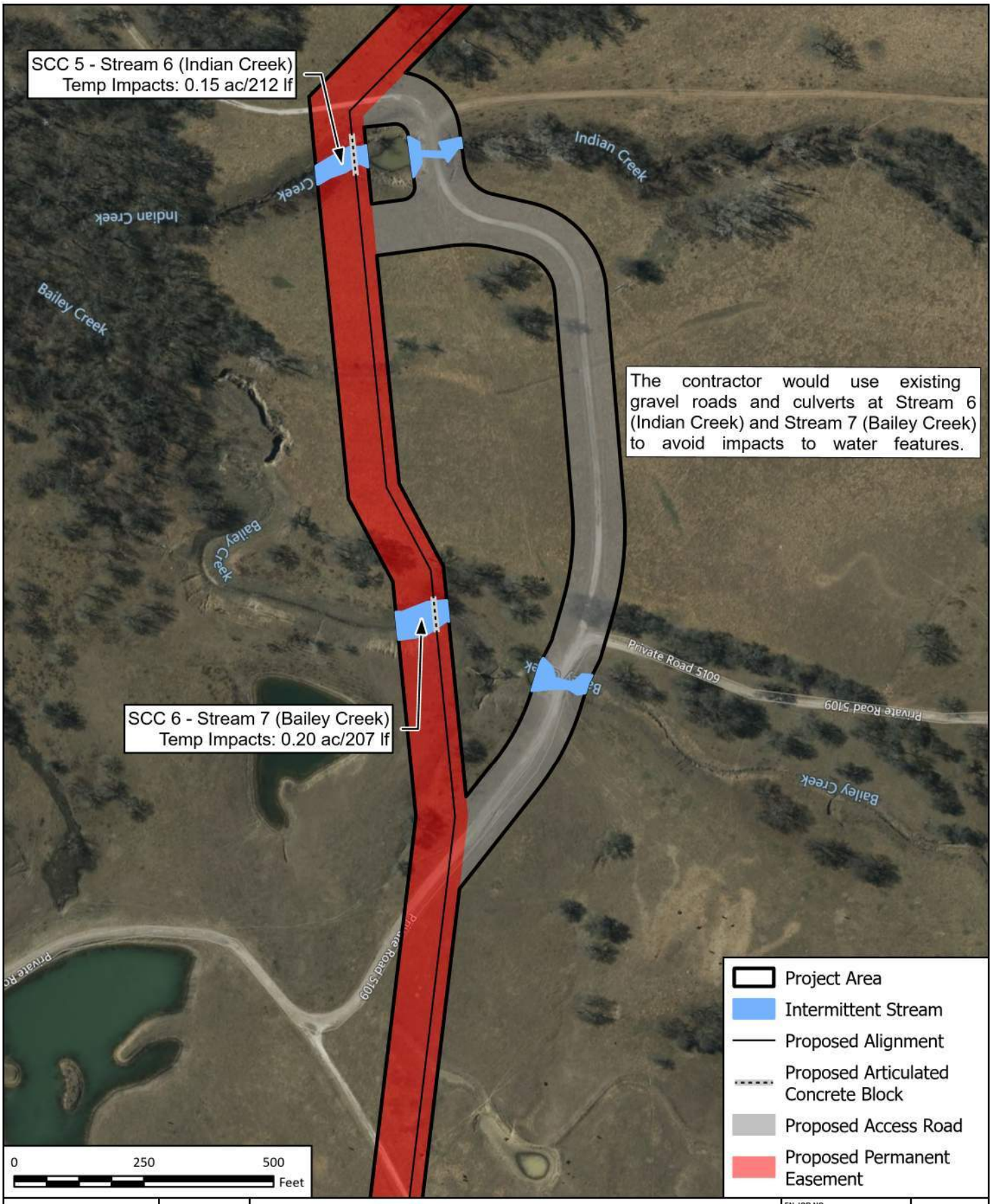

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
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DATE	12/23/2025
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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
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DATE	12/23/2025
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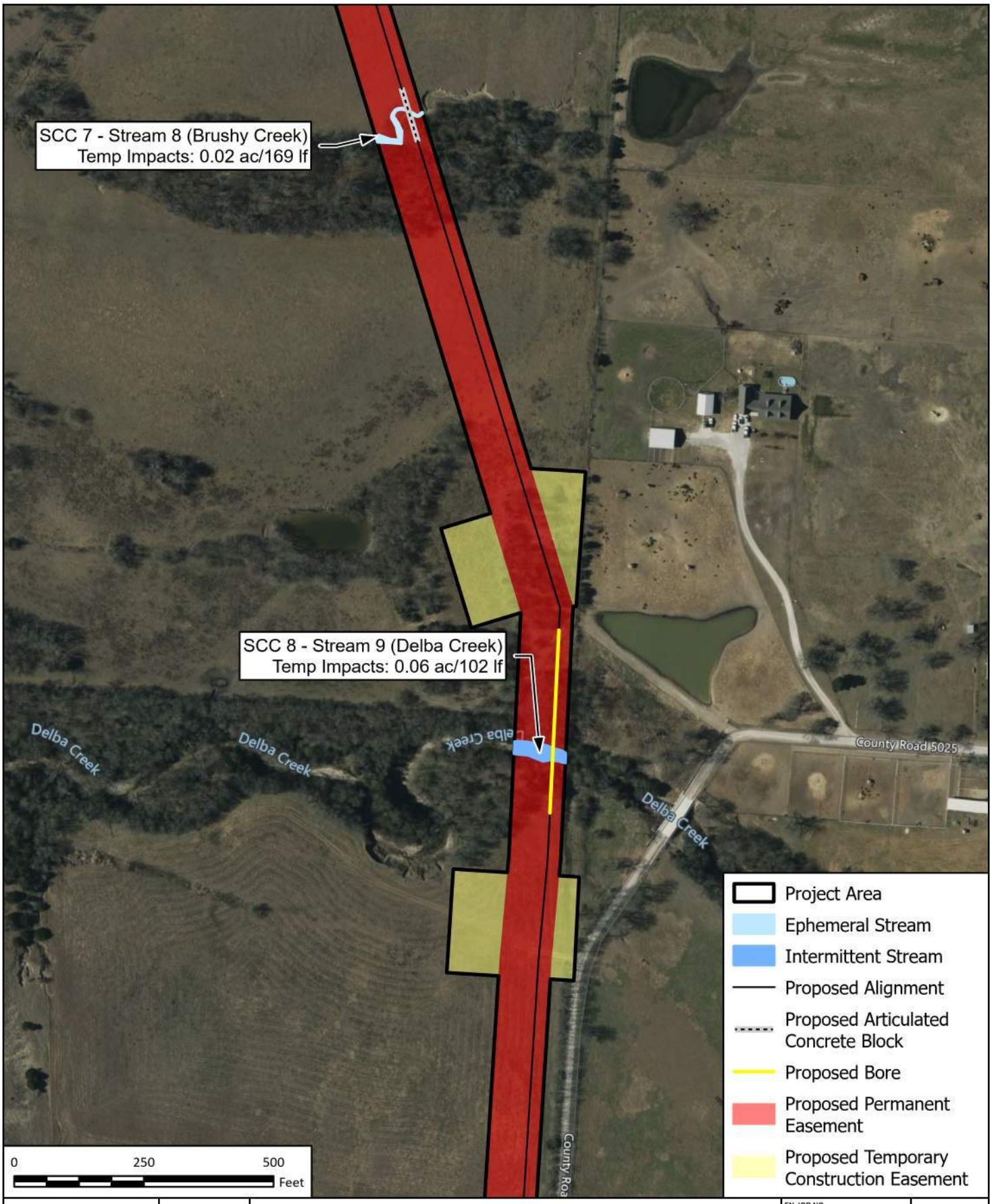

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Impacts
DATE	12/23/2025
DESIGNED	MK
DRAFTED	MK

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FIGURE

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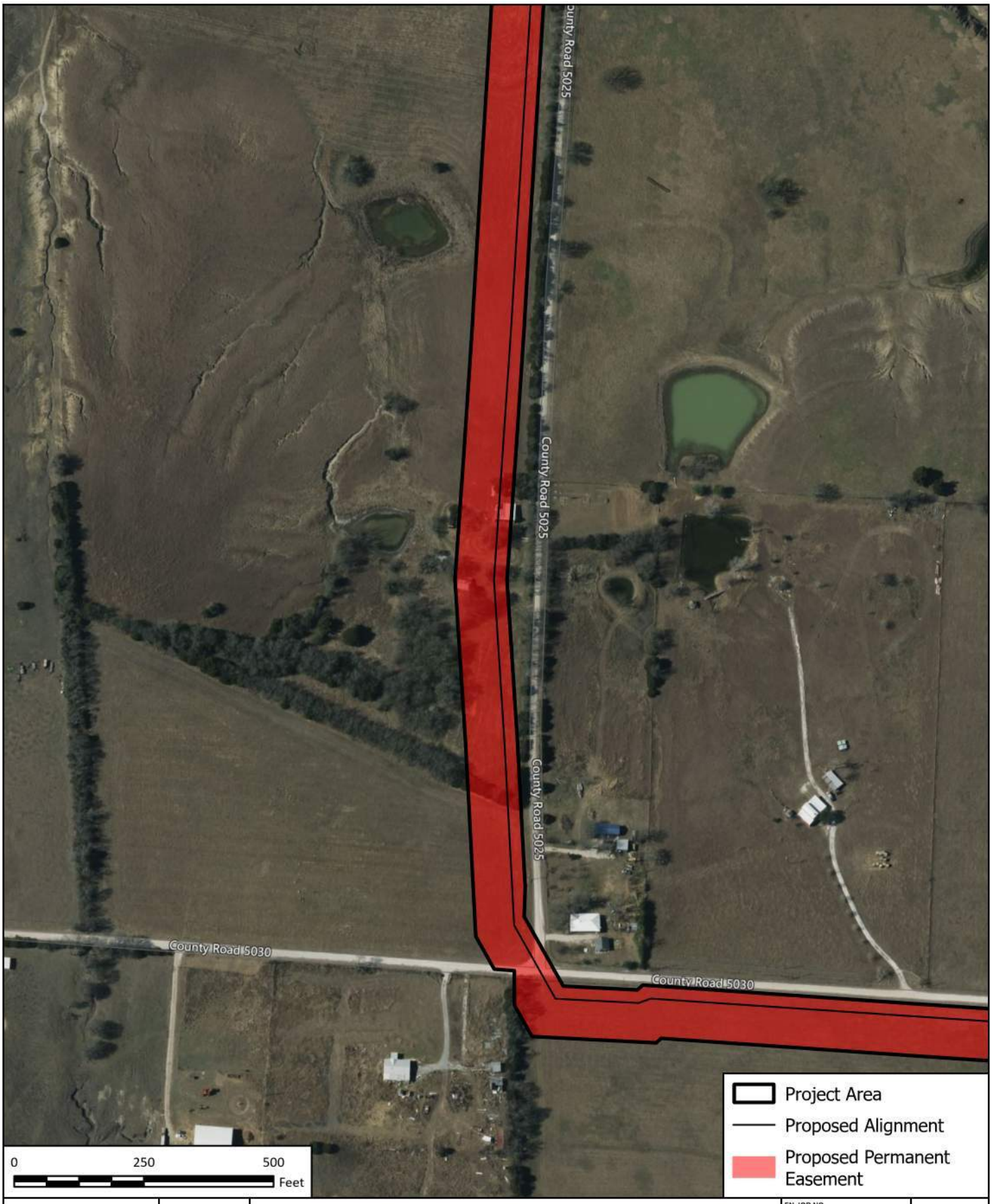

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Impacts
DATE	12/23/2025
DESIGNED	MK
DRAFTED	MK

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FIGURE

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NAD 1983 2011 StatePlane Texas North Central FIPS 4202 FtUS

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Impacts
DATE	12/23/2025
DESIGNED	MK
DRAFTED	MK

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FIGURE

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

Waterbodies Impacts Map

FN JOB NO	NTD24059
LAYOUT NAME	Fig2_Impacts
DATE	12/23/2025
DESIGNED	MK
DRAFTED	MK

2.11

FIGURE

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NORTH TEXAS MUNICIPAL WATER DISTRICT

Texoma RWPL to Leonard WTP

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2.12

FIGURE

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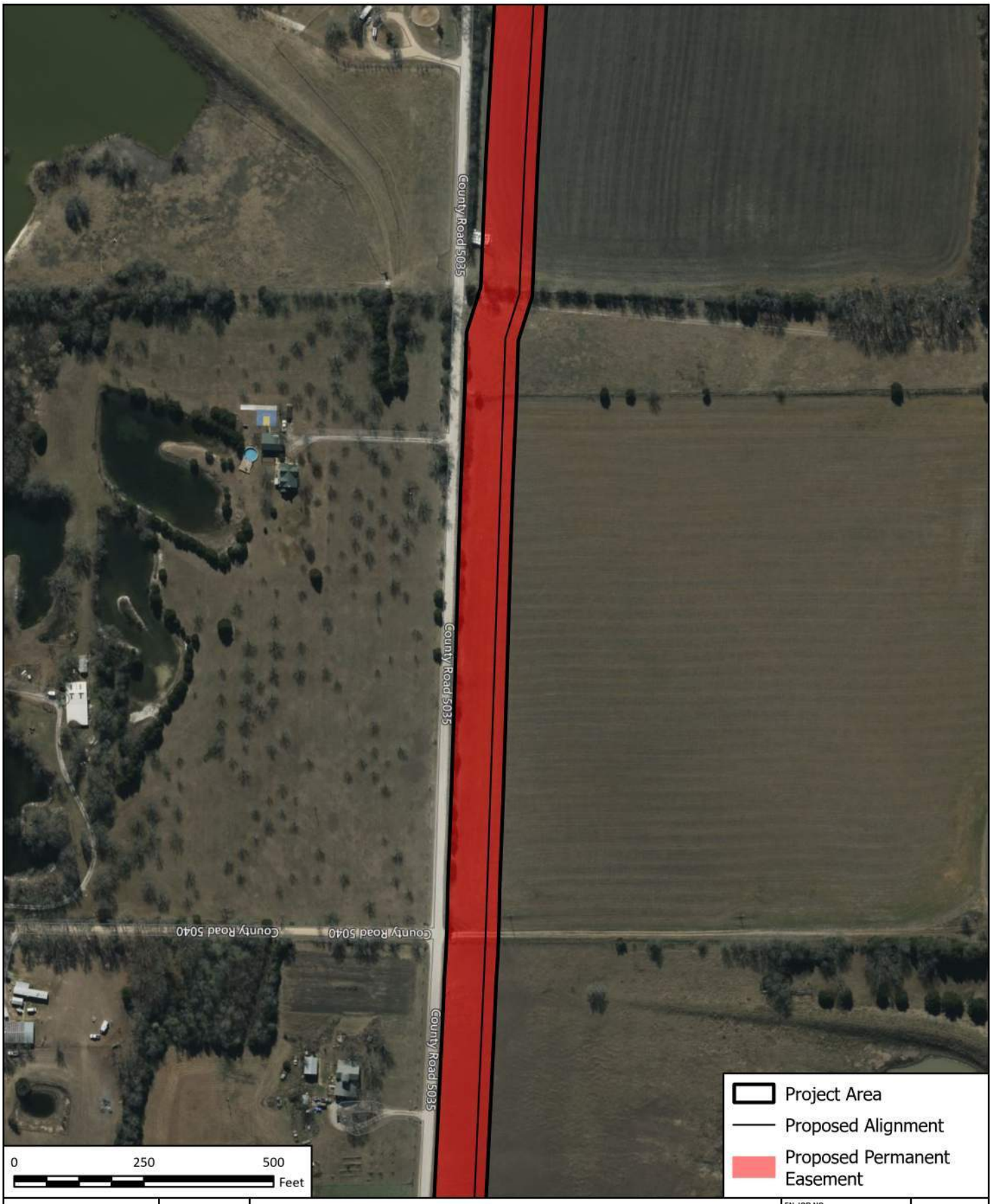

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Texoma RWPL to Leonard WTP

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2.13

FIGURE

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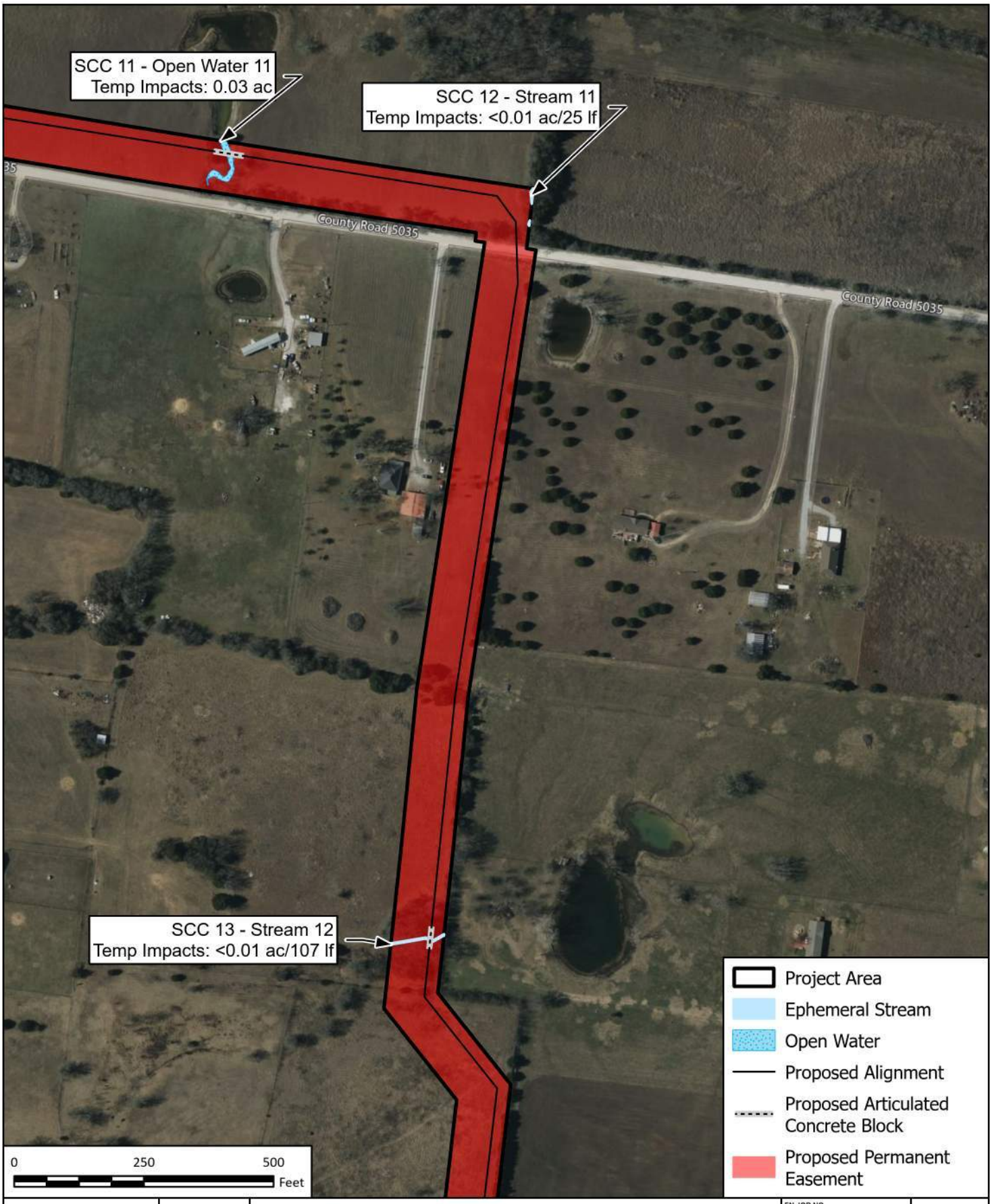

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2.14

FIGURE

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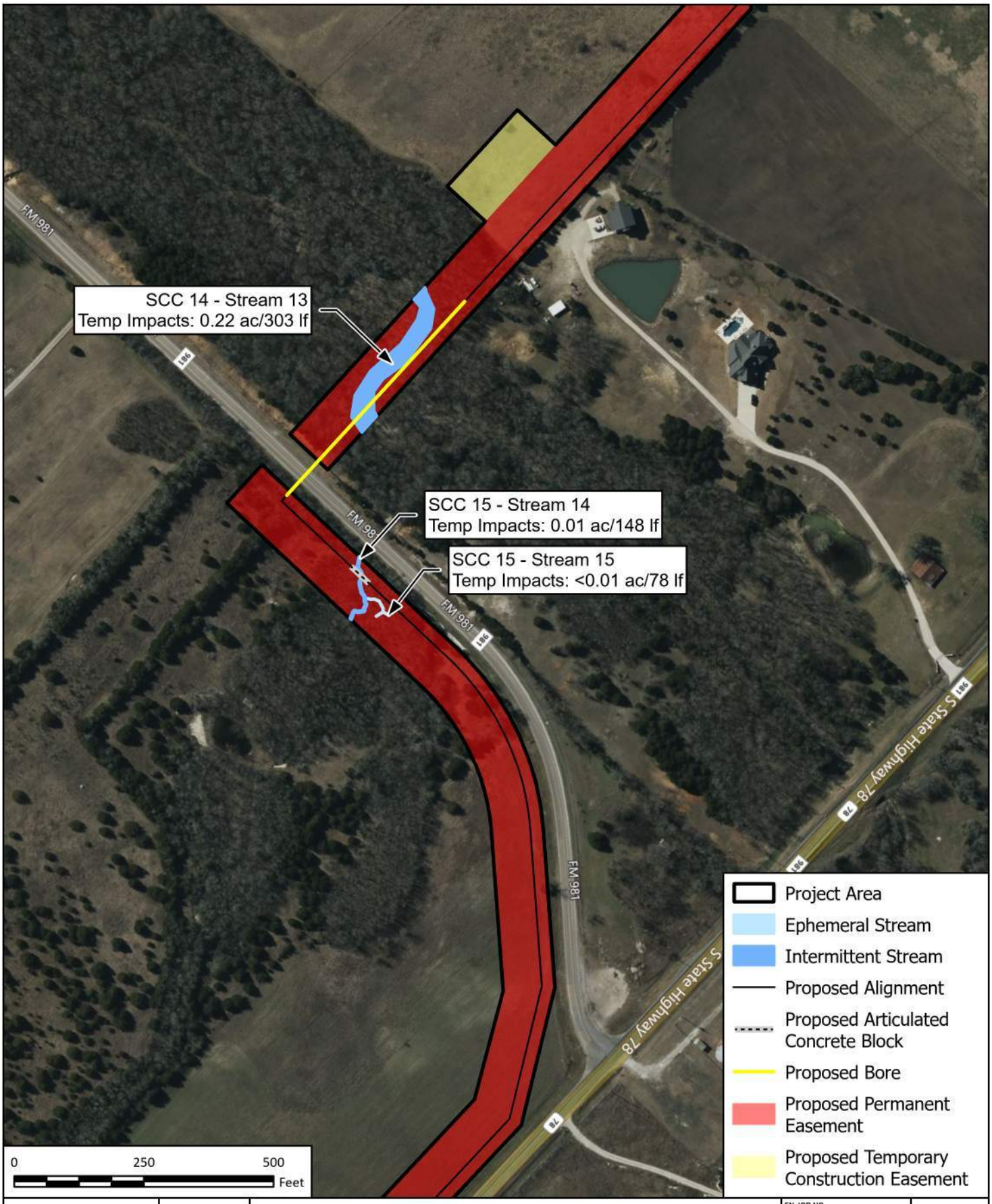

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FIGURE

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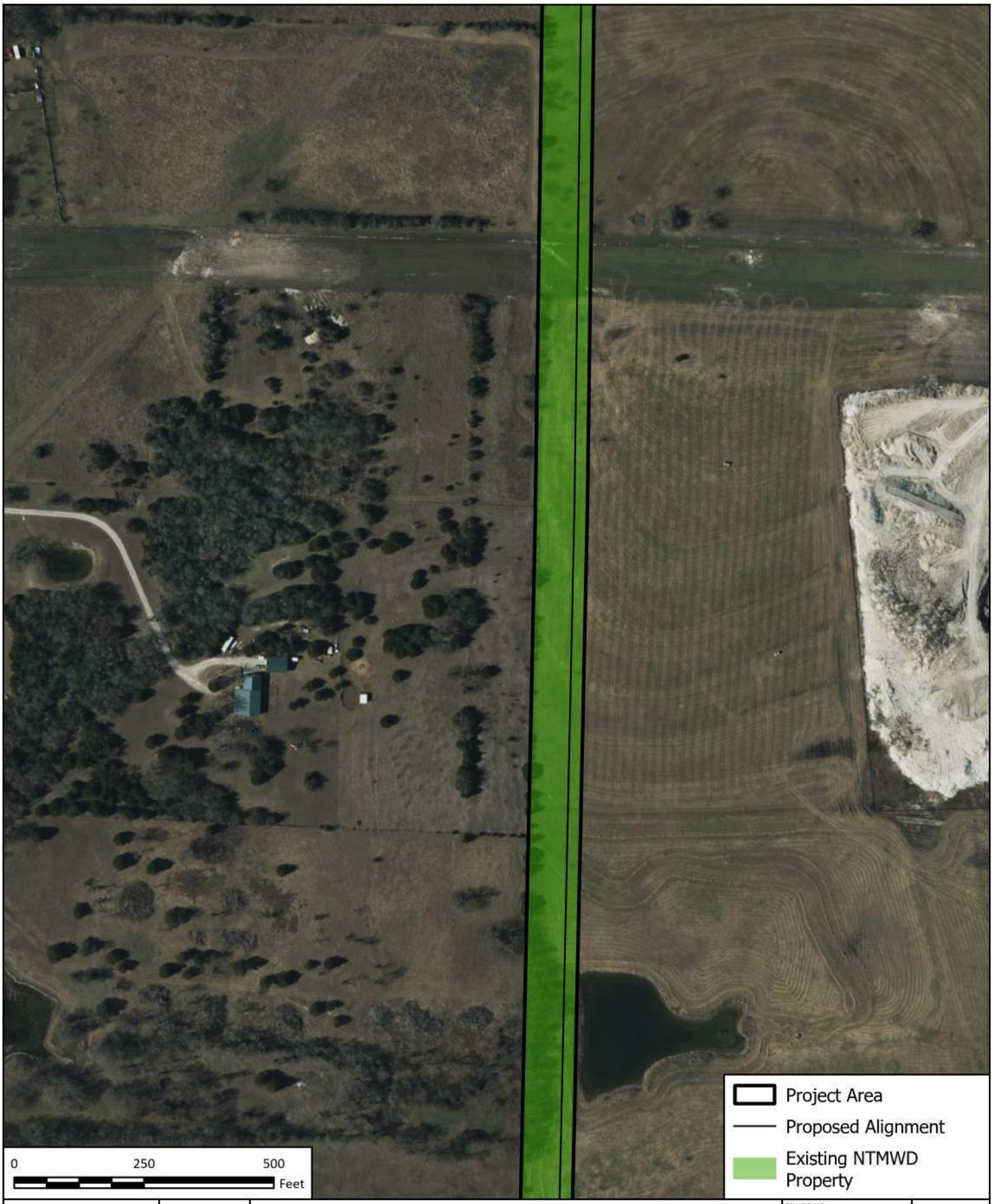

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FIGURE

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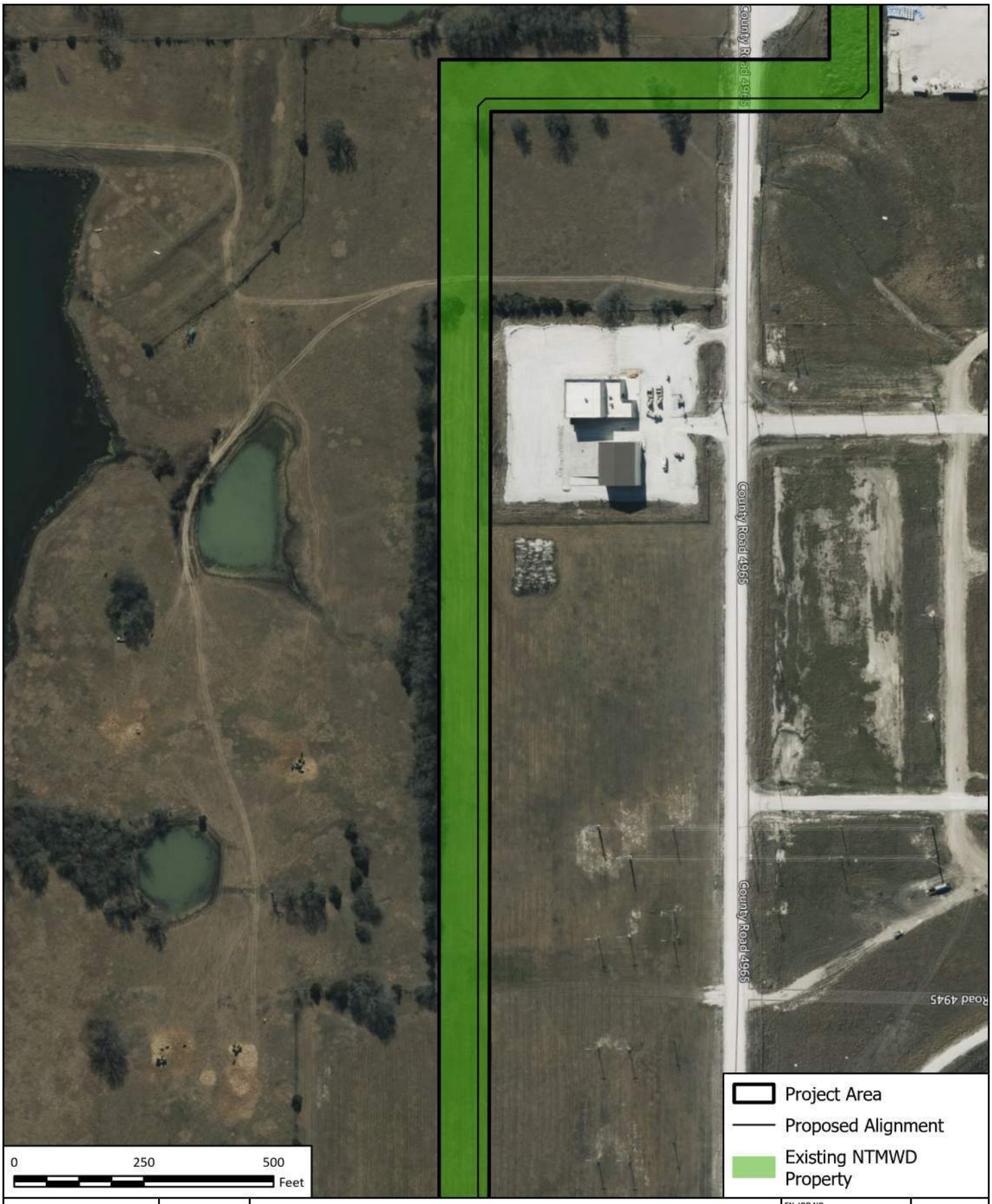

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FIGURE

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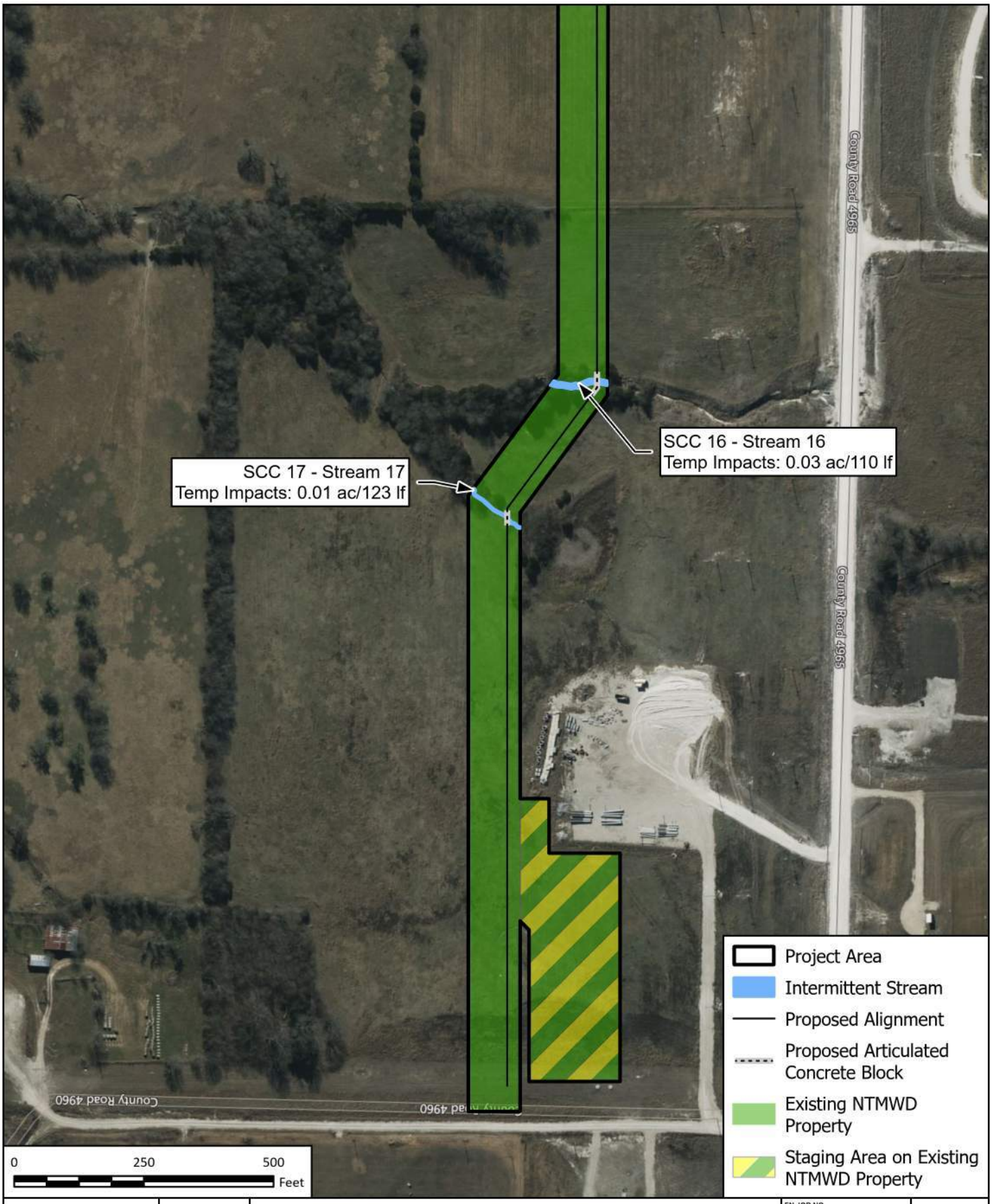

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FIGURE

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