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MUNICIPAL
WATER
DISTRICT

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And Tomorrow



WASTEWATER COMMITTEE MEETING

JUNE 25, 2025



Agenda

- I. CALL TO ORDER
- II. PUBLIC COMMENTS
- III. OPENING REMARKS
- IV. ACTION ITEMS
- V. DISCUSSION ITEMS
- VI. ADJOURNMENT



Agenda

IV. ACTION ITEMS

- A. Consider approval of Wastewater Committee meeting minutes – April 23, 2025
- B. Sister Grove Regional Water Resource Recovery Facility Phase II; Project No. 301-0570-20; Tabulation of Bids, Award of Contract, Construction Management and Inspection Services
- C. South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion, Project No. 301-0525-18; Amendment No. 8; and Buffalo Creek Parallel Force Main, Project No. 507-0640-24; Partial GMP No. 1
- D. McKinney Prosper Sewer Improvements; Project No. 501-0641-24; Engineering Services Agreement, Final Engineering

V. DISCUSSION ITEMS

- A. Princeton Lift Station Expansion; Tabulation of Bids and Award of Contract, Engineering Services During Construction, and Internal Inspection Services
- B. Buffalo Creek Lift Station No. 2; Electrical Procurement Package
- C. Rowlett Creek Regional Wastewater Treatment Plant Peak Flow Improvements; Construction Manager At-Risk Services
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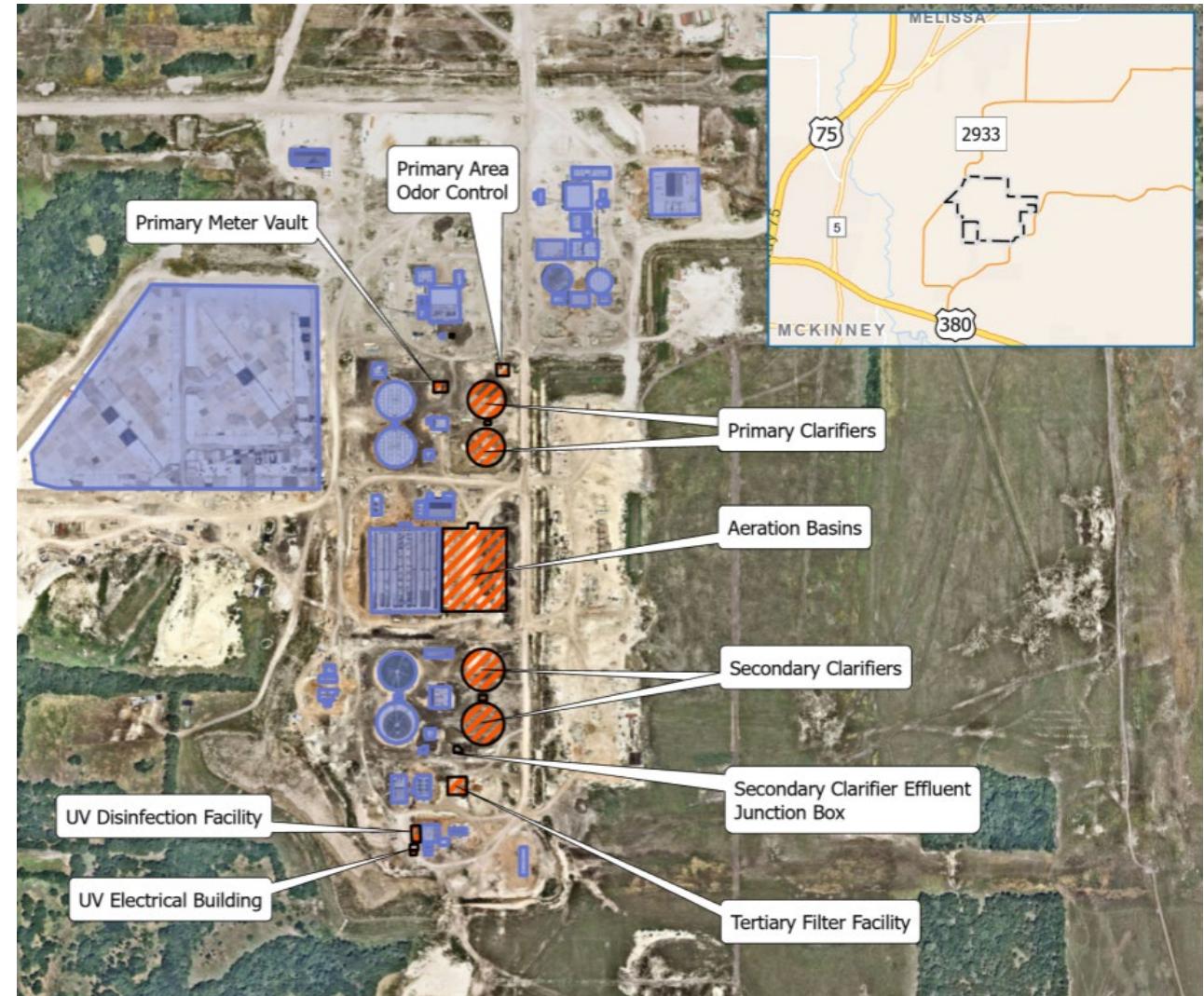
Sister Grove Regional Water Resource Recovery Facility (RWRRF) Phase II

Project Purpose

- Expansion of treatment capacity of existing facilities from the current 16 MGD annual average daily flow to 32 MGD annual average daily flow with a peak two-hour flow of 128 MGD

Project Components

- 16 MGD treatment train including primary clarification, secondary treatment, tertiary filtration, and an ultraviolet light (UV) disinfection system
- Additional process equipment for existing facilities including headworks, pump stations, blower building, and solids handling facility



Tabulation of Bids

| Bidder | Total Bid | Recommendation |
|------------------------------------|---------------|---|
| Eagle Contracting, LLC | \$187,012,000 | Lowest responsible bid Recommended for Award |
| ARCO/Murray National Holdings, Inc | \$197,725,175 | |
| Engineer's OPCC | \$175,106,579 | |

Construction Management and Inspection Services (FNI) - \$4,639,507

- Outsourced construction management and inspection services to cover all disciplines for 36 months

Internal Inspection Services - \$239,616

- Inspection supervisors

Progress Updates:

- Garney has taken over all the work on Peak Flow Basins
 - Provided additional staffing resources
 - Scheduled completion for the Peak Flow Basins targeting end of July 2025
- Garney is installing stainless steel piping and diffuser at Aeration Basins
- Garney is assisting with odor control duct work at Headworks.
- Additional Prime Controls hired to assist with vendor control panel terminations
- Physical Checkouts on equipment at multiple facilities
- On-going training for NTMWD Operations Staff
- Fire Marshall inspected and approved Operations Building
- Construction Contractor for the FM 2933 improvements is mobilizing

Anticipated Progress by End of August 2025:

- Complete Vendor Control Panel Terminations (Prime Controls)
- Site Fully Energized and Electrical Testing Complete
(except at Peak Flow Basins)
- Treatment Process Structures to be “Operationally Complete” and ready to begin performing Operational Readiness Testing (ORT)
 - Goal is to complete ORT by end of September 2025
- Functional Demonstration Testing (FDT) complete on Main Electrical Building and Operations Building
 - Goal is to complete FDT by mid October 2025
- Startup Process
 - Targeting end of October 2025



Committee Consideration

The Executive Director, NTMWD staff and CDM Smith, Inc., recommend the Board of Directors authorize the award of a contract as follows:

Consultant: Eagle Contracting, LLC

Construction
Manager: Freese and Nichols, Inc.

Scope: Construction Contract
Construction Management and Inspection Services
Internal Inspection Services

Project: No. 301-0570-20, Sister Grove Regional Water Resource Recovery Facility Phase II

Amount: \$187,012,000 for Construction Contract (TWDB and ECP Funding)
\$4,639,507 for Construction Management Services (ECP Funding)
\$239,616 for Internal Inspection Services (ECP Funding)

Funding: Existing Regional Wastewater System Clean Water State Revolving Construction and Regional Wastewater System Extendable Commercial Paper



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South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion and Buffalo Creek Parallel Force Main

Project Purpose

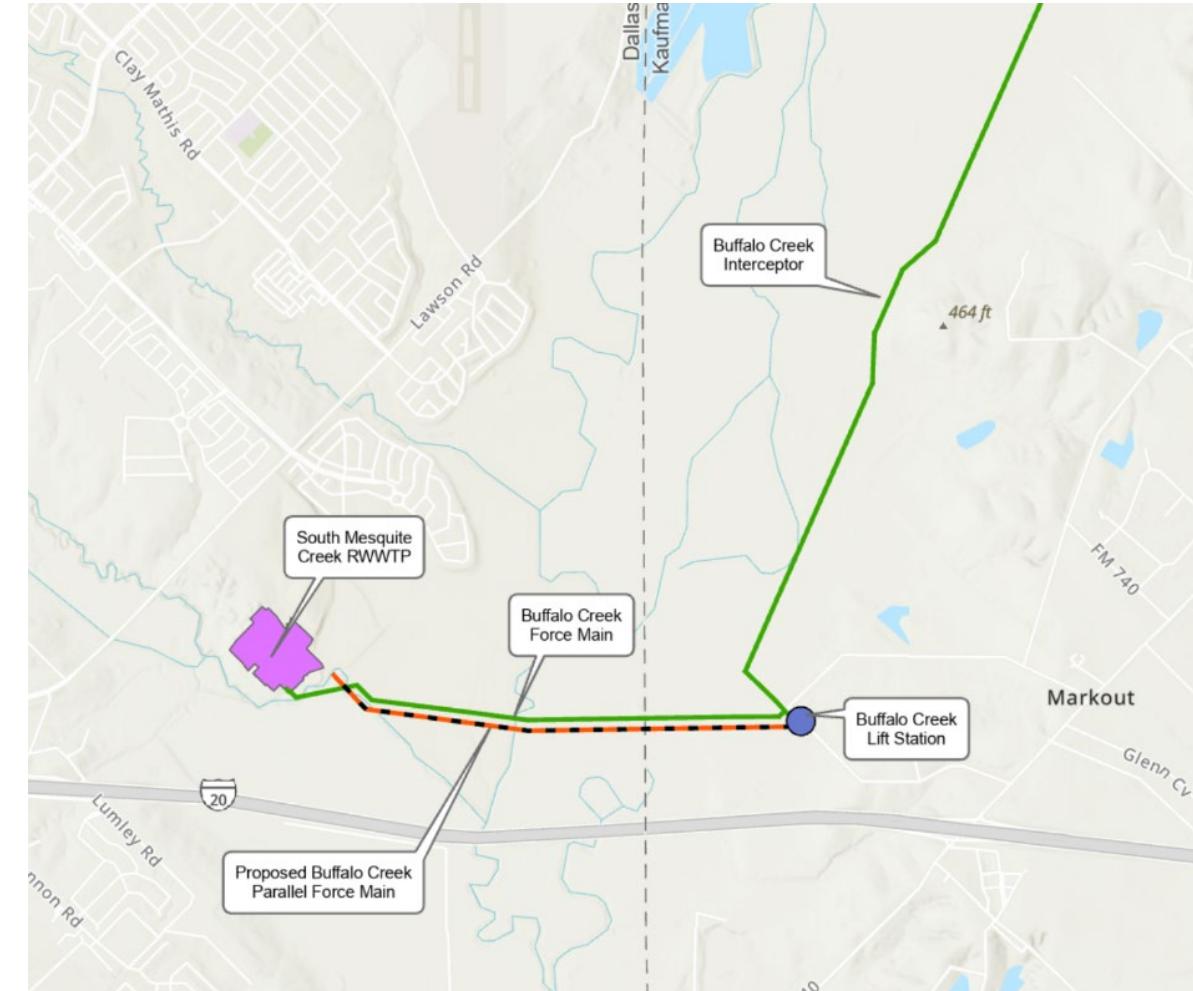
- Capacity Assessment Study of the southern services area show the South Mesquite Creek RWWTP needs expansion by 2028
 - From 33 MGD to 41 MGD average daily flow
 - Increase wet weather treatment capacity to 102.5 MGD
 - Meets growth projections through 2033
- Early peak flow relief adding 3.5 million gallons of storage was completed in August 2024
- The Buffalo Creek Parallel Force Main (PN 640) was added to the scope of the South Mesquite Creek RWWTP CMAR agreement (PN 525) to convey peak flow to the new headworks and peak flow basins under construction

South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion and Buffalo Creek Parallel Force Main

Program Components

The program is divided into three parts:

- I. Early Peak Flow Relief
 - Repurpose abandoned secondary clarifier as Peak Flow Storage Basin No. 3
- II. Peak Flow Improvements
 - Headworks No. 2
 - Peak Flow Storage Basin No. 1
 - **Buffalo Creek Parallel Force Main (Current Request)**
 - Electrical Buildings and Gear for Peak Flow and Expansion
- III. Expansion to 41 MGD
 - Primary, secondary and tertiary treatment improvements



South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion and Buffalo Creek Parallel Force Main

Buffalo Creek Parallel Force Main 507-0640-24 Partial Guaranteed Maximum Price (GMP) No. 1 CMAR ESTIMATE: \$1.7 million

| Major Scope of Work Description – Partial GMP No. 1 | Lump Sum Amount |
|---|------------------|
| Bid Package 11 – BCPFM Valve Procurement Package includes 8 x 42" plug valves for isolation of the force main as required by TCEQ. Received 4 vendor package proposals for supply of the plug valves | \$799,033 |
| Total Construction Cost | \$799,033 |
| General Conditions (@8.5% of the Estimated Construction Costs) | \$67,918 |
| Total Cost of Work | \$866,951 |
| CMAR Fees (@6.5% of the Cost of Work) | \$56,352 |
| CMAR Contingency (@1.5% of the Cost of Work) | \$13,005 |
| BCPFM Partial Guaranteed Maximum Price No. 1 (Sum of Total Cost of Work and CMAR Fees) | \$936,308 |

South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion and Buffalo Creek Parallel Force Main

Buffalo Creek Parallel Force Main 507-0640-24 Project Cost & Schedule Update

| GMP No | Award Date | Buffalo Creek Parallel Force Main | Amount |
|--------|------------|--|---------------------|
| | Oct-24 | Original Agreement - Pre-construction and Procurement Services Fee | \$225,000 |
| 1 | June-25 | Buffalo Creek Parallel Force Main Valve Procurement (Current Request) | \$936,308 |
| 2 | Nov 2025 | Buffalo Creek Parallel Force Main (estimated construction cost) | \$19,334,700 |
| | | Total Contract Price | \$20,496,008 |

South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion and Buffalo Creek Parallel Force Main

CMAR Contract Amendment Summary

South Mesquite Creek Regional Wastewater Treatment Plant and Buffalo Creek Parallel Force Main

| Description | Status | Amount |
|--|------------------------|-------------------------|
| Original Agreement - Partial Pre-Construction and Procurement Services Fee | Board Approved | \$1,250,000.00 |
| Amendment No. 1 – Partial GMP No. 1 Materials & Site Prep. | Board Approved | \$11,944,463.24 |
| Amendment No. 2 – Partial GMP No. 2 Early Peak Flow Relief | Board Approved | \$8,556,427.36 |
| Change Order No. 1 – Reinforced concrete pipe encasement | Board Approved | \$48,117.51 |
| Amendment No. 3 – Partial GMP No. 3 Electrical Procurement | Board Approved | \$16,788,604.77 |
| Amendment No. 4 – Partial GMP No. 4 Headworks & Peak Flow Basin | Board Approved | \$110,349,109.09 |
| Amendment No. 5 – (CO No. 2) Reduction of GMP 1&2 now complete | Board Approved | (\$1,553,954.45) |
| Amendment No. 6 – BCPFM CMAR Services and Partial GMP No. 5 for Electrical Building No. 3 and Non-potable water pumps procurement | Board Approved | \$21,370,610.27 |
| Amendment No. 7 – Partial GMP No. 6 Expansion to 41 MGD Components: UV, 42-inch force mains, filters, non-potable water, solids improvements, Maintenance and Storage Facility | Board Approved | \$49,650,787.00 |
| Amendment No. 8 – BCPFM Partial GMP No. 1 Valve Procurement | Current Request | \$936,308.00 |
| Total Contract Price | | \$219,340,472.79 |



Committee Consideration

The Executive Director and NTMWD staff recommend the Board of Directors authorize the Executive Director to execute Amendment No. 8 to the Construction Manager At-Risk as follows:

CMAR: Archer Western Construction, LLC

Scope: Construction, Buffalo Creek Parallel Force Main Partial GMP No. 1

Project: No. 507-0640-24, Buffalo Creek Parallel Force Main

Amount: \$936,308 for Construction

Funding: Buffalo Creek Interceptor System Construction Funds

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Background & Project Purpose

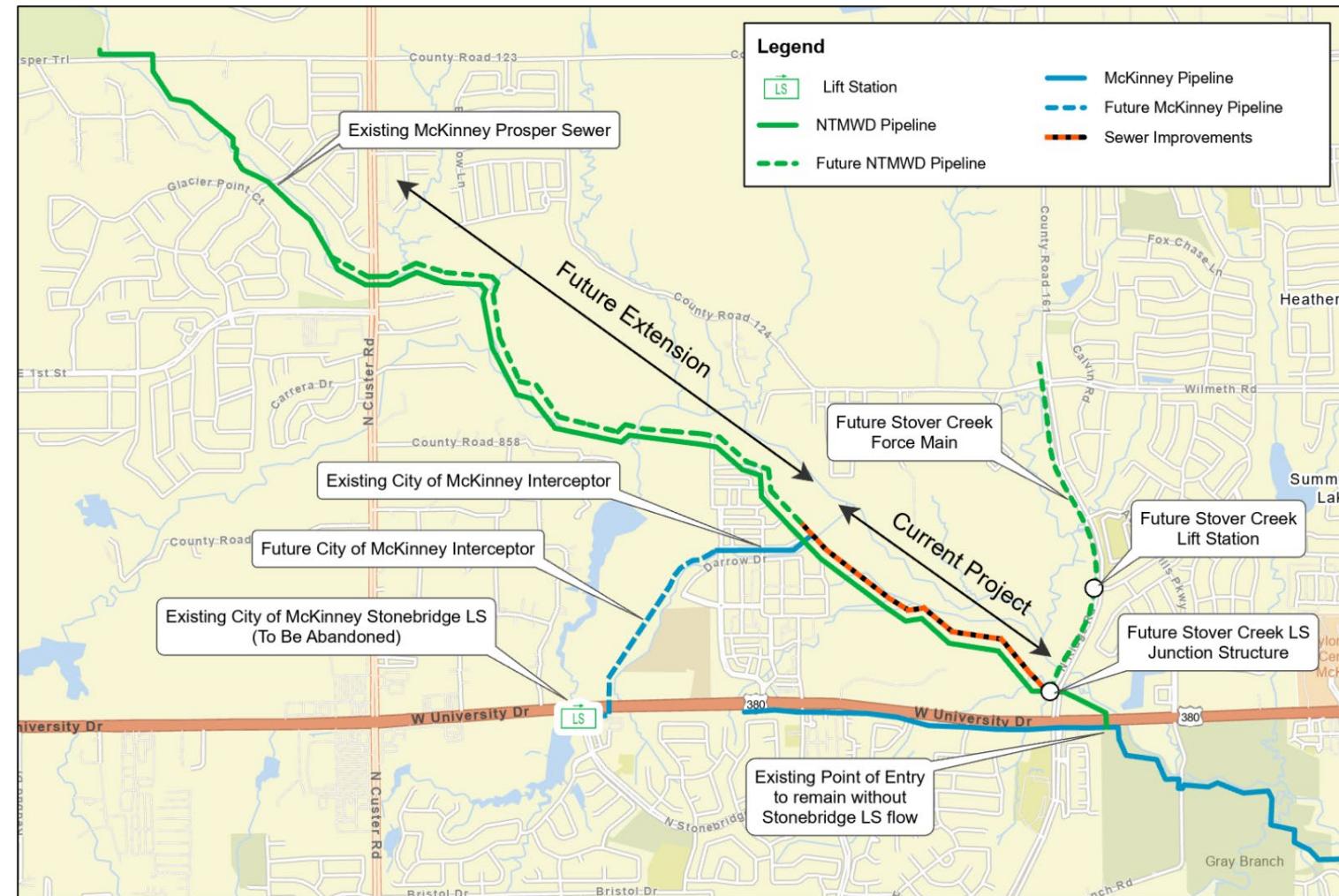
- The Upper East Fork Interceptor System (UEFIS) Regional Capacity Assessment and Assurance Study identified the need for increased capacity of the McKinney Prosper Sewer to serve projected growth in McKinney and Prosper to:
 - Allow for increased capacity and resiliency in the McKinney-Prosper Sewer system
 - Convey future flows to the planned Stover Creek Lift Station, currently under design
- A future extension will provide additional capacity as Prosper flows increase and will be under a separate project
- Estimated Construction Cost is \$8,052,000



McKinney Prosper Sewer Improvements

Project Components

- 5,000 linear feet of parallel 42/48-inch gravity interceptor
- Interconnections between two pipeline at existing McKinney Prosper Sewer manholes
- Connection of the parallel pipe to the future Stover Creek LS Junction Structure



Final Engineering Design (Garver)

- Basic Services
 - Final design services
 - Bid phase services
- Special Services
 - Topographic survey
 - Easement document preparation
 - Geotechnical engineering
 - Subsurface utility engineering
- Final engineering fee is \$612,000



Committee Consideration

The Executive Director and NTMWD staff recommend the Board of Directors authorize the Executive Director to execute an engineering services agreement as follows:

Consultant: Garver, LLC

Scope: Final Engineering Design

Project: No. 501-0641-24, McKinney Prosper Sewer Improvements

Amount: \$612,000

Funding: Upper East Fork Interceptor System Extendable Commercial Paper Program



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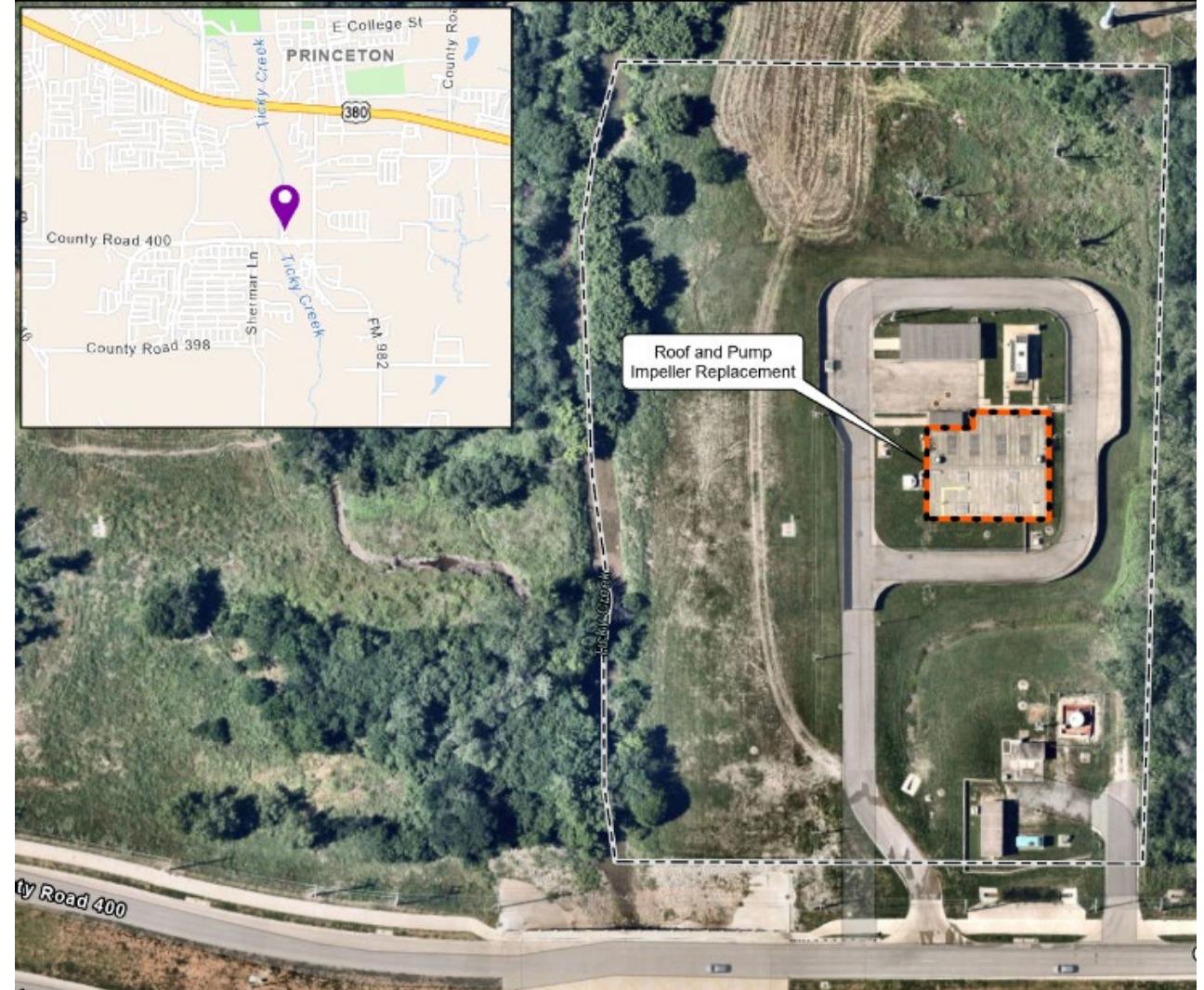
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Project Purpose

- Increase wastewater conveyance capacity serving growth in Princeton
- Replace the lift station's roof due to condition

Project Components

- Replace and upsize pump impellers
- Replace badly deteriorated roof



Tabulation of Bids

| Bidder | Total Bid | Recommendation |
|----------------------|-------------|--|
| CLW Water Group, LLC | \$4,164,000 | Lowest Responsible Bid Recommended for Award |
| Engineer's OPCC | \$2,604,000 | |

Internal Inspection Services - \$318,720

Engineering Services During Construction (AECOM) - \$236,907

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Buffalo Creek Lift Station No. 2, Tabulation of Bids and Award of Contracts for Electrical Procurement

Background

- The 2021 Buffalo Creek Interceptor System Capacity Assessment & Assurance report validated previous studies that identified the need for additional capacity in the Buffalo Creek Interceptor System to accommodate growth in Forney, Heath, and Rockwall.
- A 2023 Feasibility Analysis for Conveyance Alternatives Report recommended improvements to increase the system's pumping and conveyance capacity and manage peak weather flows at the treatment plant.

Project Purpose

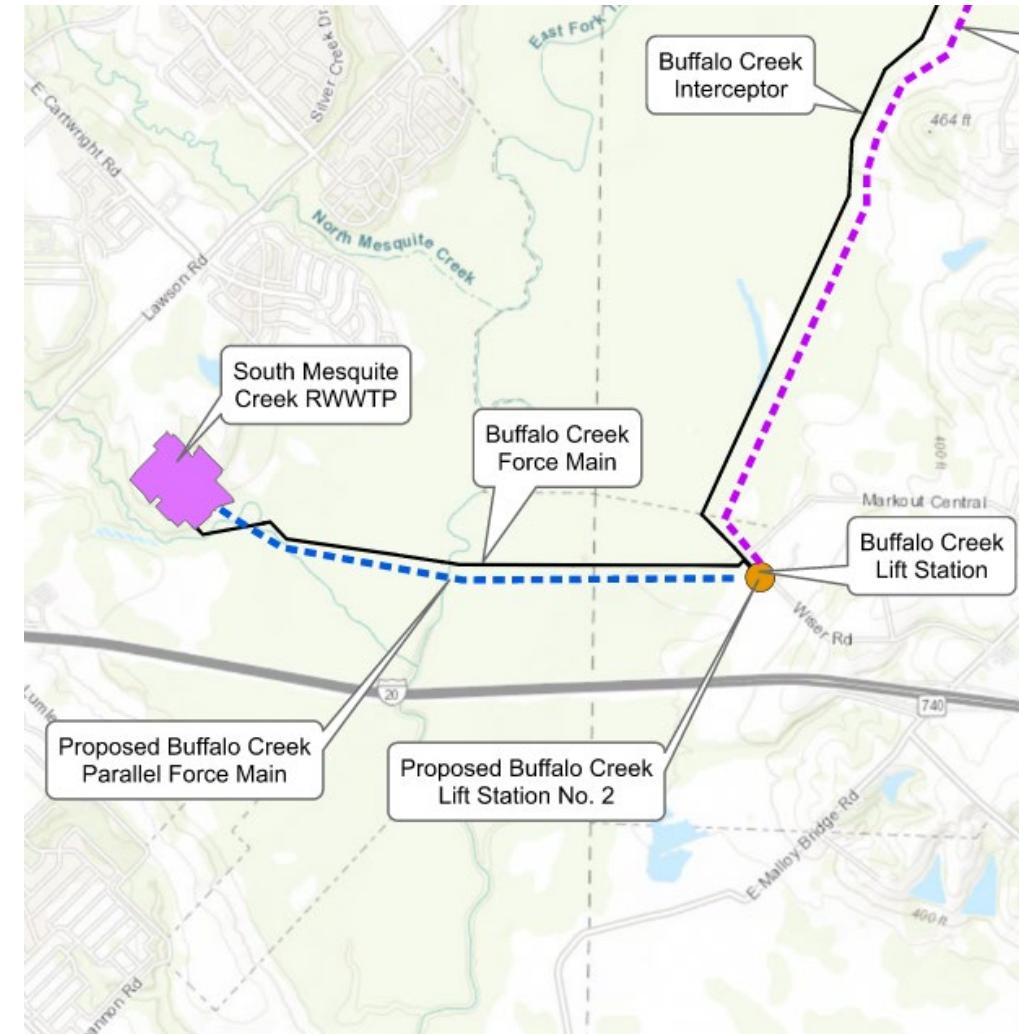
- Construct a new 32 MGD lift station and force main to convey flows from the Buffalo Creek Interceptor System to South Mesquite Creek RWWTP.



Buffalo Creek Lift Station No. 2, Tabulation of Bids and Award of Contracts for Electrical Procurement

Project Components

- Procure a new generator and a new switchboard
- Main Package (to be awarded at a later date): New 32 MGD capacity lift station on the existing Buffalo Creek Lift Station site
- Purpose is to procure the electrical equipment months prior to the main package award to support the project substantial completion by late 2027





Buffalo Creek Lift Station No. 2, Tabulation of Bids and Award of Contracts for Electrical Procurement

Tabulation of Bids

Engineer's Opinion Of Cost: \$2,101,500

| Bidder | Total Bid | Recommendation |
|---|--------------------|--|
| Cummins Sales and Service (for the generator only) | \$1,940,738 | Recommend for award for the generator |
| ECB Solutions, LLC (for both items) | \$2,390,000 | Non-responsive proposal |
| Elliott Electric Supply (for the switchboard only) | \$958,900 | Recommend for award for the switchboard |
| Total Amount | \$2,899,638 | |

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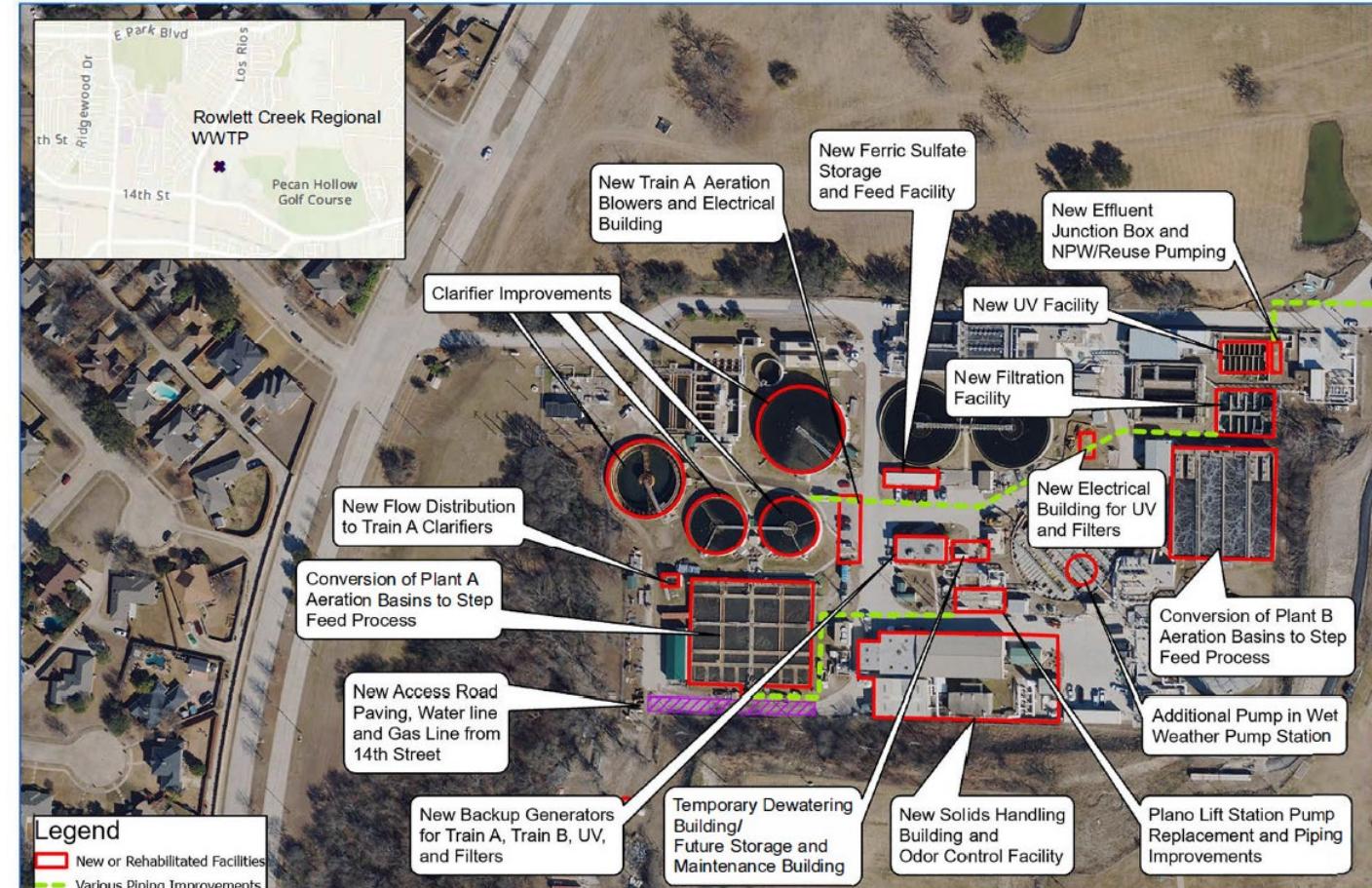
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Project Purpose

- Expansion of treatment capacity of existing facilities from the current 77.5 MGD peak two-hour flow to 95 MGD peak two-hour flow

Project Components

- Influent pumping, Train A aeration blowers, conversion to step feed, clarifier improvements, ferric sulfate facility, filtration facility, ultraviolet light (UV) disinfection facility, and plant outfall pipeline
- Electrical and SCADA system improvements and solids handling building



CMAR SOQ and Proposal

- March 2025, Board Authorized CMAR Delivery Method
- Used one-step process for CMAR selection
- Receive Statement of Qualifications (SOQ) and CMAR Proposals at the same time
- May 15, 2025, only one SOQ and proposal received from Archer Western Construction

- CMAR Agreement with Archer Western Construction to presented at July 2025 Board Meeting
 - CMAR Services (Preconstruction and Procurement Services)
 - Estimated cost \$2,385,000
 - CMAR Construction Support Costs
 - General Conditions
 - Based on a fee schedule submitted during selection process
 - Estimated cost for 5-year project duration \$26,966,000
 - CMAR Fee 9%

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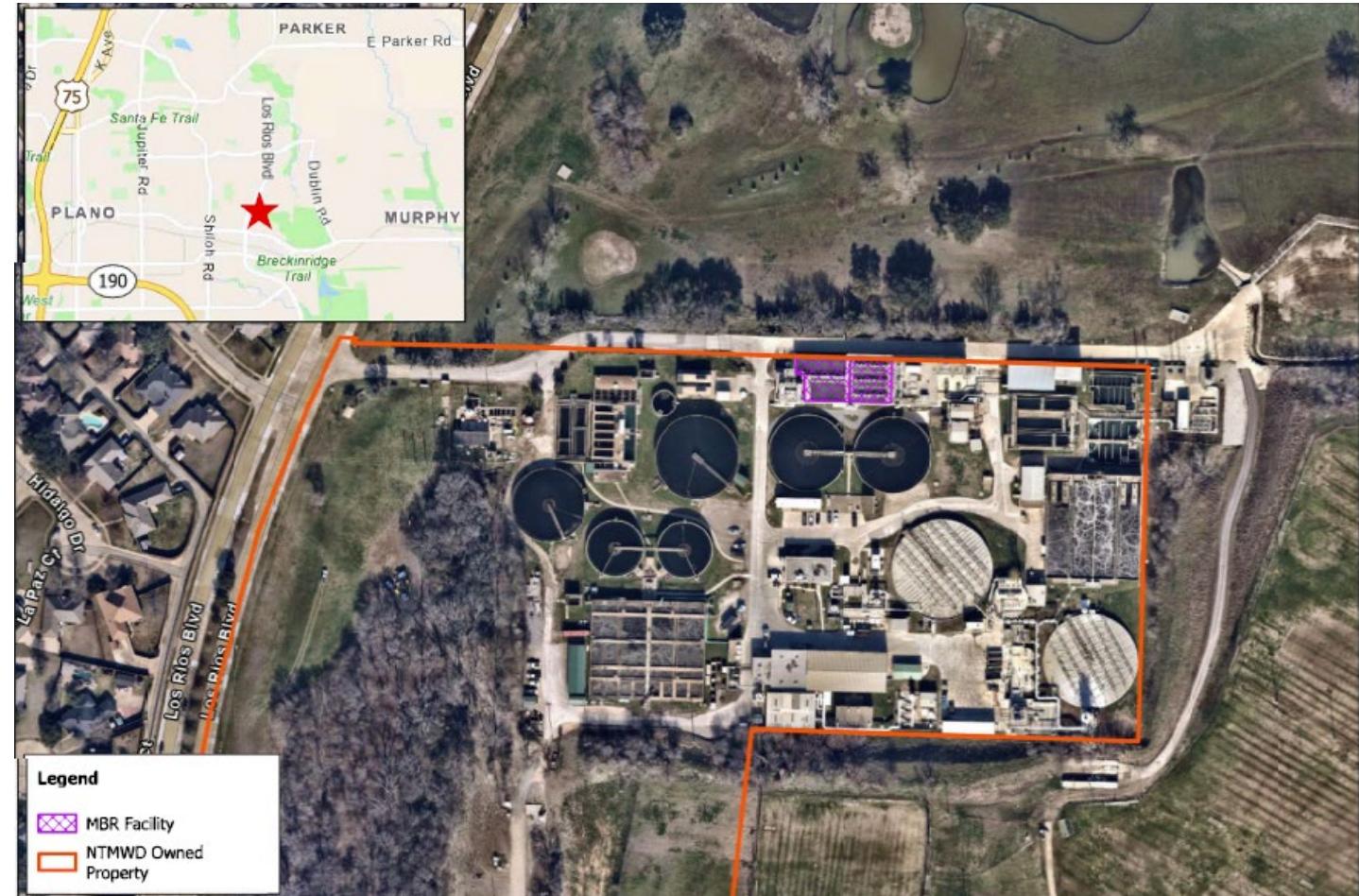
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Project Purpose

- Provide safe and efficient means for maintaining the MBR system components

Project Components

- Bridge crane with open structural steel-based frame
- Watertight covers over blower access hatches
- Grated covers over bioreactor basins
- Personal safety system to use during cassette removal and reinstallation
- Lowest submitted bid \$4,582,000
- Engineering Services During Construction: \$89,015



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