

1. 1:00 P.M. Wastewater Committee Meeting Agenda

Documents:

[2025-06-25 WASTEWATER COMMITTEE AGENDA.PDF](#)

- 1.1. 1:00 PM Wastewater Committee Meeting Presentation

Documents:

[2025-06-25 WASTEWATER COMMITTEE PRESENTATION.PDF](#)



NORTH TEXAS MUNICIPAL WATER DISTRICT

**501 E. Brown Street • Wylie, Texas 75098
(972) 442-5405**

**WASTEWATER COMMITTEE MEETING (VIA VIDEOCONFERENCE)
WEDNESDAY, JUNE 25, 2025
1:00 P.M.**

Notice is hereby given pursuant to V.T.C.A., Government Code, Chapter 551, that the Board of Directors of North Texas Municipal Water District (NTMWD), Wastewater Committee, will hold a regular meeting by videoconference, accessible to the public, on Wednesday, June 25, 2025, at 1:00 p.m.

The Presiding Officer will be present at the meeting location, the NTMWD Administrative Offices, 501 E. Brown Street, Wylie, Texas 75098, with two-way video and audio communication between Board members participating by videoconference, establishing a quorum. The public may attend the meeting in person at the meeting location. Audio and video of Board members participating by videoconference will be visible to members of the public in attendance at the meeting location. The meeting will be recorded, and the audio recording will be available on the NTMWD website after the meeting.

Members of the public wishing to listen to live audio from the meeting may do so by calling in at (469) 210-7159 or toll free (844) 621-3956 and entering the following access code: 928 587 040. Please note this line will not provide for two-way communication and public comment at the meeting must be made in person at the meeting location.

AGENDA

I. CALL TO ORDER

II. PUBLIC COMMENTS

We welcome members, customers, and the public to participate during the public comment period of the meeting. Before the start of the meeting, speakers must complete and submit a "Public Comment Registration Form." During this portion of the meeting, speakers will be recognized by name and asked to provide their comments. The time limit is three (3) minutes per speaker, not to exceed a total of thirty (30) minutes for all speakers. Texas Open Meetings Act prohibits the Committee from discussing items not listed in the agenda. However, Committee Members may respond with factual or policy information.

III. OPENING REMARKS

- A. Chair/Executive Director/Committee Champion Status Report concerning legislation and regulatory matters, budgets, current projects and ongoing Wastewater System programs of the District

WASTEWATER COMMITTEE MEETING AGENDA

JUNE 25, 2025

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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
- D. Rowlett Creek Regional Wastewater Treatment Plant MBR Maintenance Improvements
- E. Christie Farms/Municipal Utility District discussion
- F. Opportunity for Committee members to provide feedback on Wastewater Committee meeting or request potential future agenda items

VI. ADJOURNMENT

REQUIRED LEGAL NOTICES

The Wastewater Committee is authorized by the Texas Open Meetings Act to convene in closed or executive session for certain purposes. These purposes include receiving legal advice from its attorney (Section 551.071); discussing real property matters (Section 551.072); discussing gifts and donations (Section 551.073); discussing personnel matters (Section 551.074); or discussing security personnel or devices (Section 551.076). If the Wastewater Committee determines to go into executive session on any item on this agenda, the Presiding Officer will announce that an executive session will be held and will identify the item to be discussed and provision of the Open Meetings Act that authorizes the closed or executive session.

Persons with disabilities who plan to attend the NTMWD meeting and who may need auxiliary aids or services are requested to contact Shannon Sauceman in the NTMWD Administrative Offices at (972) 442-5405 as soon as possible. All reasonable efforts will be taken to make the appropriate arrangements.

Pursuant to Section 30.05, Penal Code (criminal trespass), a person may not enter this property with a firearm. Pursuant to Section 30.06, Penal Code (trespass by license holder with a concealed handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a concealed handgun. Pursuant to Section 30.07, Penal Code (trespass by license holder with an openly carried handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a handgun that is carried openly.



Regional. Reliable. Everyday.

Regional Service Through Unity:
Meeting Our Region's Needs Today
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

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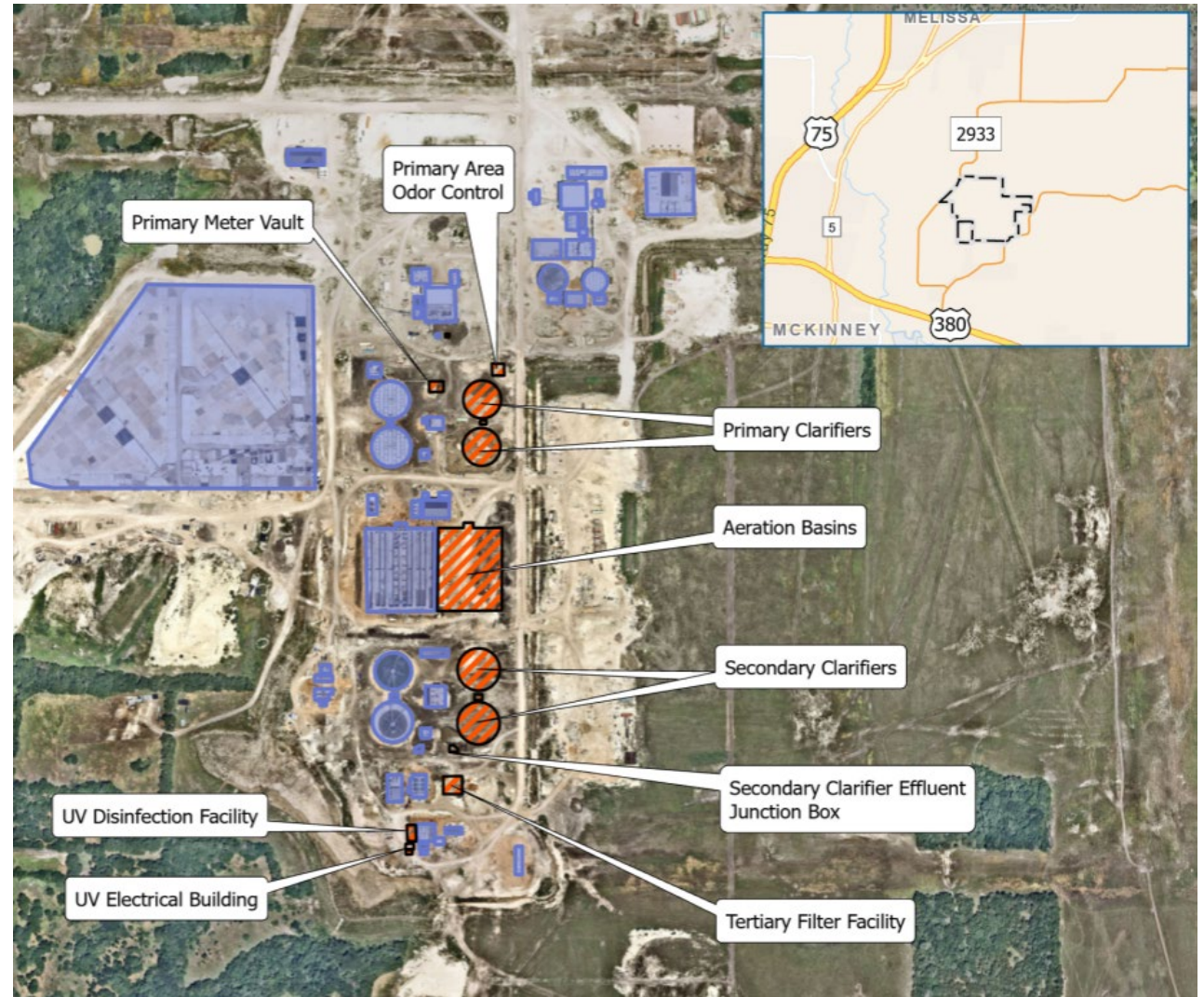
Sister Grove Regional Water Resource Recovery Facility (RWRRF) Phase II

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



Sister Grove RWRRF Phase II

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

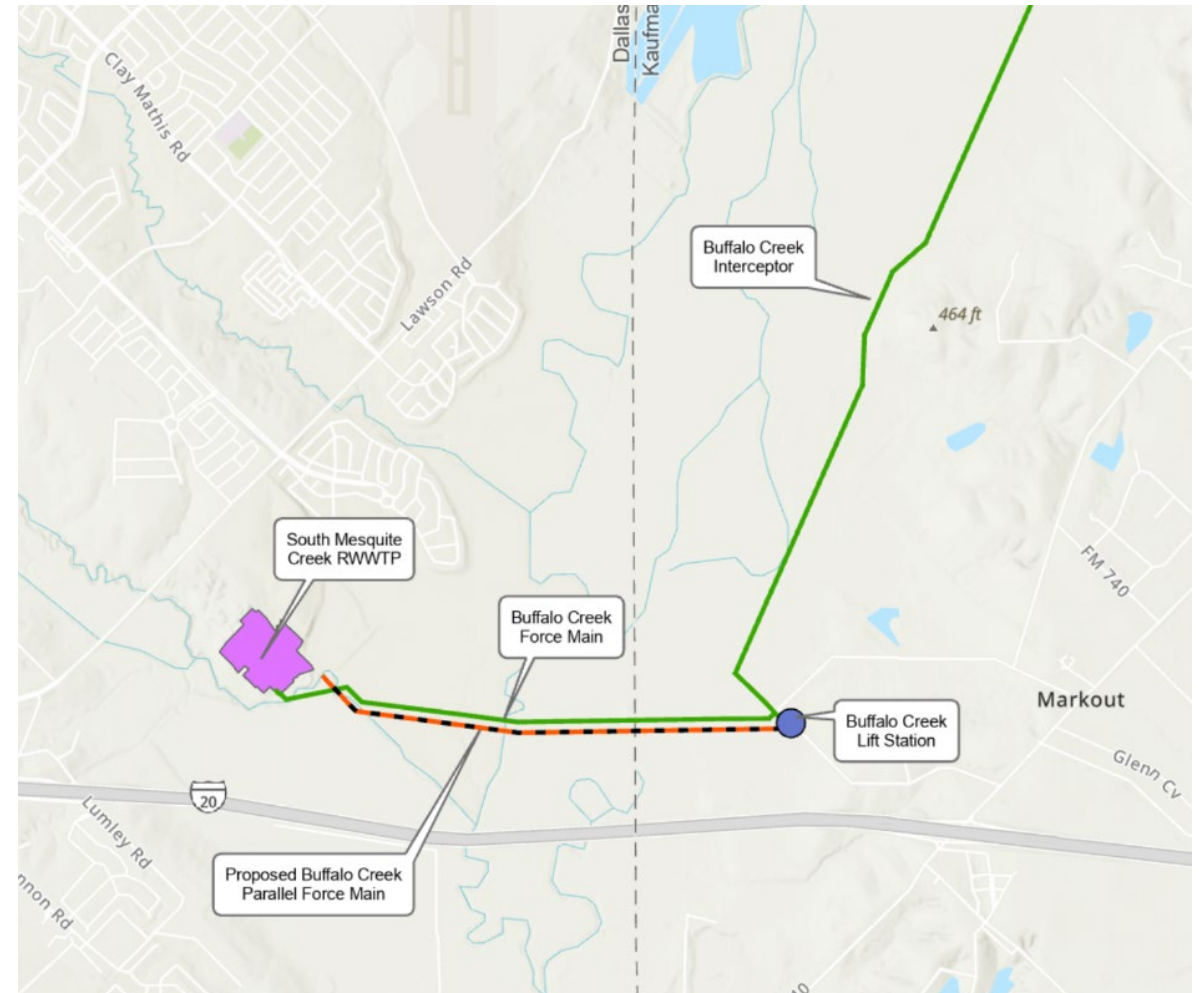


South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion and Buffalo Creek Parallel Force Main

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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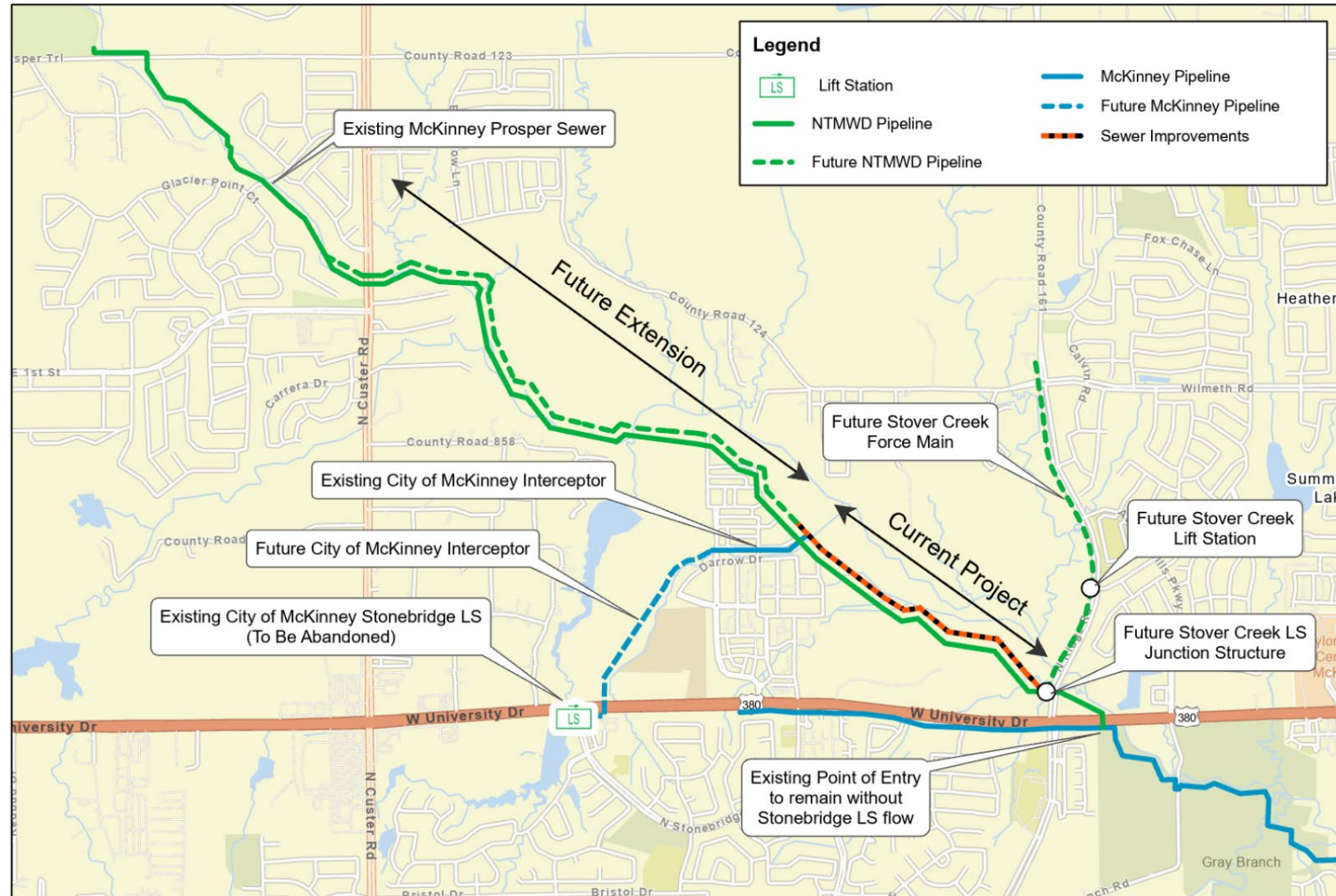
Background & Project Purpose

- 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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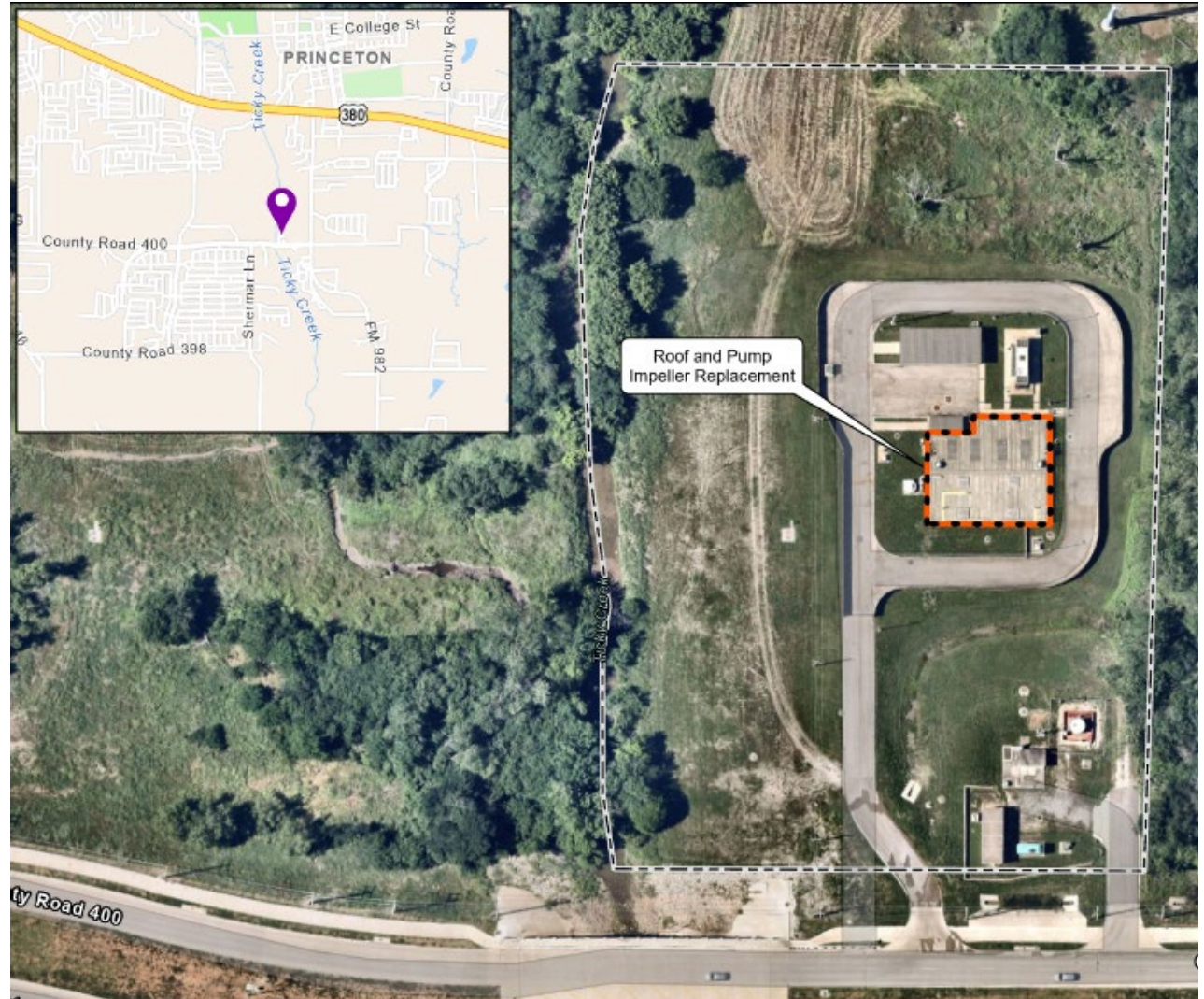
Princeton Lift Station Expansion

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





Princeton Lift Station Expansion

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

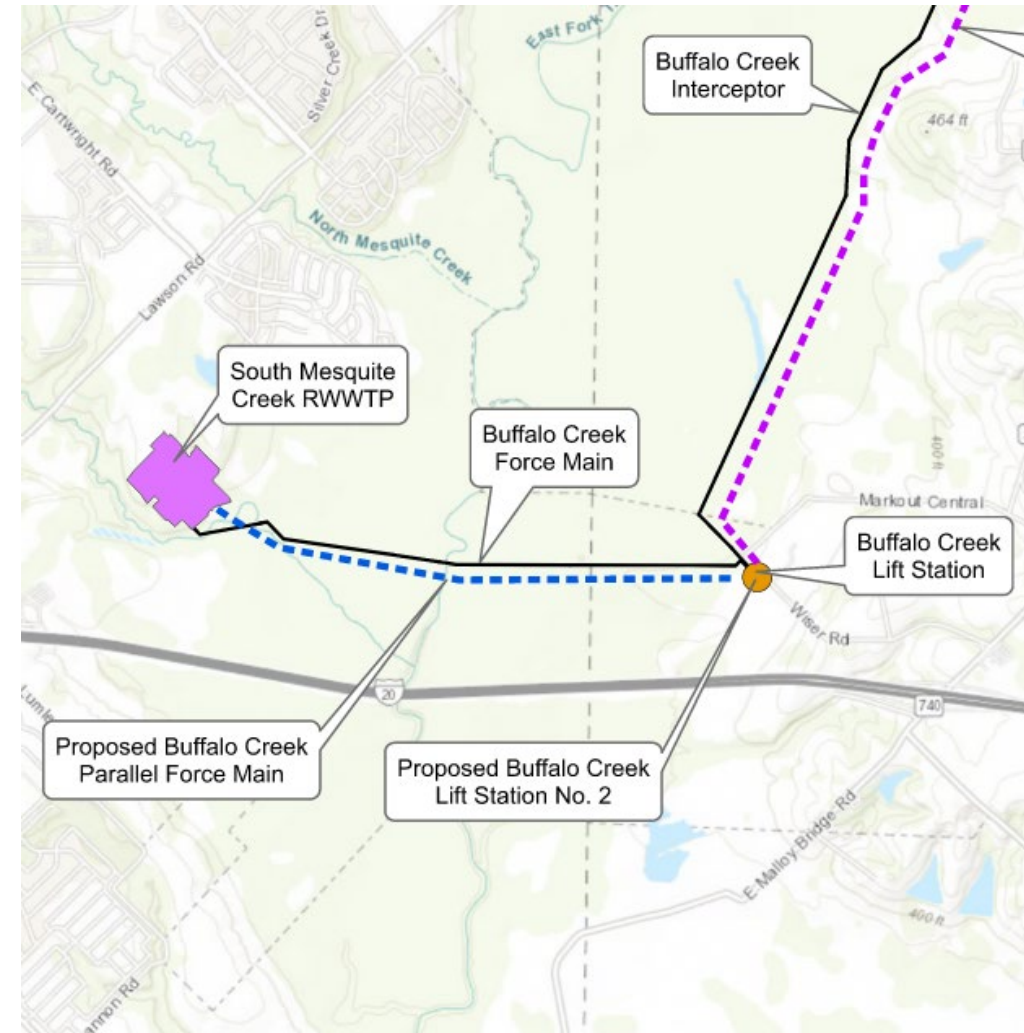
- Construct a new 32 MGD lift station and force main to convey flows from the Buffalo Creek Interceptor System to South Mesquite Creek RWWTP.



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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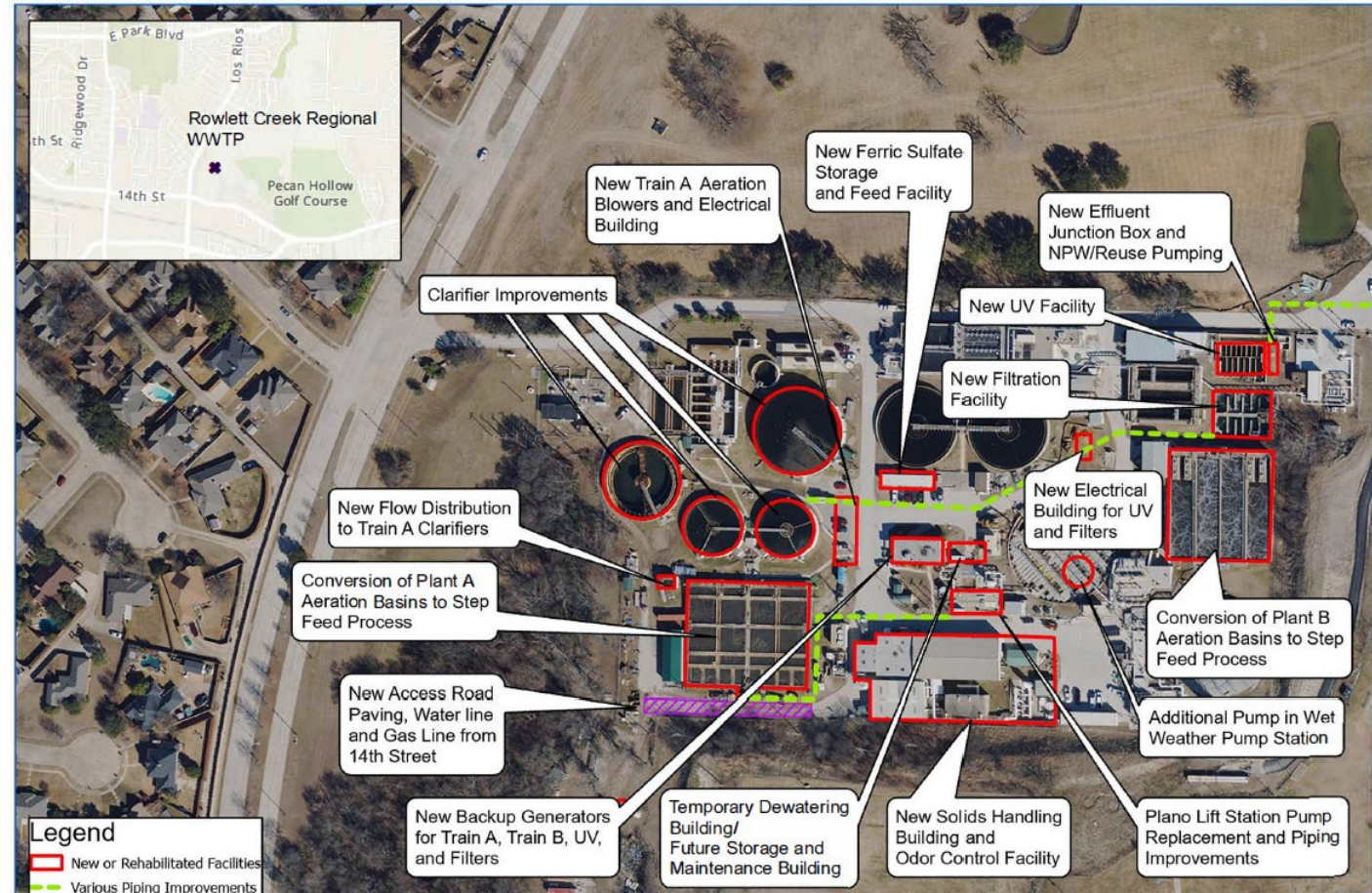
Rowlett Creek Peak Flow Improvements, Phase II

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





Rowlett Creek Peak Flow Improvements, Phase II

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

Rowlett Creek Peak Flow Improvements, Phase II

- 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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Rowlett Creek MBR Maintenance Improvements

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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- C. Rowlett Creek Regional Wastewater Treatment Plant Peak Flow Improvements; Construction Manager At-Risk Services
- D. Rowlett Creek Regional Wastewater Treatment Plant MBR Maintenance Improvements
- E. **Christie Farms/Municipal Utility District discussion – Executive Session**
- F. Opportunity for Committee members to provide feedback on Wastewater Committee meeting or request potential future agenda items

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
- D. Rowlett Creek Regional Wastewater Treatment Plant MBR Maintenance Improvements
- E. Christie Farms/Municipal Utility District discussion
- F. Opportunity for Committee members to provide feedback on Wastewater Committee meeting or request potential future agenda items



Agenda

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