



Legislation Text

File #: 23-270, **Version:** 1

STRATEGIC PRIORITY: Transportation & Infrastructure

AGENDA DATE: May 10, 2023

COUNCIL DISTRICT(S): 4

DEPARTMENT: Water Utilities Department

EXECUTIVE: Kimberly Bizer Tolbert

SUBJECT

Authorize a construction services contract for headworks and primary clarifiers improvements at Central Wastewater Treatment Plant - BAR Constructors, Inc., lowest responsible bidder of four - Not to exceed \$48,559,500.00 - Financing: Wastewater Capital Improvement G Fund (\$27,231,000.00), Wastewater Capital Improvement F Fund (\$20,000,000.00), and Wastewater Construction Fund (\$1,328,500.00)

BACKGROUND

The City of Dallas owns and operates two wastewater treatment plants with a combined treatment capacity of 280 million gallons per day. Central Wastewater Treatment Plant (CWWTP) is the largest of the two plants, located just south of downtown. The treatment facility is divided into two plants, the Dallas Plant and the White Rock Plant. Screened and de-gritted wastewater is sent to primary clarifiers that reduce suspended solids and loading on downstream processes to minimize operational problems and lower energy consumption.

Dallas Water Utilities has identified a need to improve primary clarification and de-gritting for the Dallas Plant at CWWTP. Primary Clarifiers A and B were originally constructed in the 1930's and 1940's and are experiencing severe deterioration of the concrete structure and associated equipment due to corrosion. Poor hydraulics are also limiting the capacity of the Dallas Plant and the construction of new clarifiers is necessary to achieve adequate capacity to meet permit renewal requirements. In addition, grit from incoming wastewater is tearing up pumps and equipment in the clarifiers and creating maintenance and operational issues at both the Dallas and White Rock Plants. Maintenance staff has to shutdown the clarifiers on a regular basis to clean out the accumulation of grit and make temporary repairs.

This action will authorize a construction services contract with BAR Contractors, Inc. to install three new circular clarifiers, along with a de-gritting system for the CWWTP. The improvements will address deteriorated infrastructure and increase the capacity of the Dallas Plant Primary Clarifiers by 20 Million Gallons per Day (MGD). Construction of the snail removal and de-gritting system at the

Dallas and White Rock Headworks will prevent snails and grit from entering the downstream treatment process and causing damage to the mechanical equipment. The project will also include rehabilitation of influent piping to the existing clarifiers to prevent water leakage, construction of a new splitter box, an effluent flow control structure, primary sludge pump station, meter vault and relocation of the Hazardous Materials Building.

The proposed improvements will increase the hydraulic capacity of the plant to meet permit requirements of 200 MGD average annual effluent flow, provide operational flexibility, enhance performance during wet weather events, improve overall effluent hydraulics, and decrease maintenance requirements. Pumps and other equipment will be better protected and last longer due to the new de-gritting system which will also allow the primary clarifiers to work more efficiently during peak flows and ease maintenance burdens on the aeration basins and other downstream processes. The following chart illustrates BAR Constructors, Inc. contractual activities with the City of Dallas for the past three years:

	<u>PBW</u>	<u>DWU</u>	<u>PKR</u>	<u>TRN</u>
Projects Completed	0	1	0	0
Active Projects	0	2	0	0
Change Orders	0	2	0	0
Projects Requiring Liquidated Damages	0	0	0	0
Projects Completed by Bonding Company	0	0	0	0

ESTIMATED SCHEDULE OF PROJECT

Begin Construction June 2023
Complete Construction December 2025

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

This item has no prior action.

FISCAL INFORMATION

Fund	FY 2023	FY 2024	Future Years
Wastewater Capital Improvement G Fund	\$27,231,000.00	\$0.00	\$0.00
Wastewater Capital Improvement F Fund	\$20,000,000.00	\$0.00	\$0.00
Wastewater Construction Fund	\$ 1,328,500.00	\$0.00	\$0.00
Total	\$48,559,500.00	\$0.00	\$0.00

M/WBE INFORMATION

In accordance with the City's Business Inclusion and Development Policy adopted on September 23, 2020, by Resolution No. 20-1430, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Procurement Category	M/WBE Goal
\$48,559,500.00	Construction	32.00%
M/WBE Subcontracting %	M/WBE Overall %	M/WBE Overall Participation \$
6.75%	56.99%	\$27,674,059.05
• This contract does not meet the M/WBE goal, but complies with good faith efforts.		
• BAR Constructors, Inc - Non-local; Workforce - 26.00% Local		

PROCUREMENT INFORMATION

The following four bids with quotes were opened on December 16, 2022:

*Denotes successful bidder

Bidders

Bid Amount

*BAR Constructors, Inc. 805 Katy Street Lancaster, TX 75146	\$48,559,500.00
Archer Western Construction, LLC	\$49,770,400.00
Thalle Construction Co., Inc.	\$61,570,000.00
Oscar Renda Construction, Inc.	\$63,990,000.00

OWNER

BAR Constructors, Inc.

Isidro Arrambide, Jr., President

MAP

Attached