



AGENDA MEMORANDUM

Action Item for the City Council Meeting of September 22, 2020

DATE: August 24, 2020

TO: Peter Zaroni, City Manager

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<p style="text-align: center;"><u>Construction Contract Award</u> Greenwood Wastewater Treatment Plant Electrical Improvements to Ultraviolet System</p>

CAPTION:

Motion awarding a construction contract to CSA Construction, Inc., Houston, Texas, for Greenwood Wastewater Treatment Plant Electrical Improvements to the Ultraviolet Disinfection System in an amount of \$5,990,000, located in City Council District 3, with funds available from the FY 2020 Wastewater Capital Improvement Program budget.

SUMMARY:

This motion approves a construction contract with CSA Construction, Inc., for Greenwood Wastewater Treatment Plant Electrical Improvements to the Ultraviolet (UV) Disinfection System. The project provides for a new UV disinfection system, a new tertiary filter basin, and will address historic flooding issues at the plant to ensure the City is meeting state effluent limits for Enterococci bacteria.

BACKGROUND AND FINDINGS:

The Greenwood Wastewater Treatment Plant was constructed in 1957 and its current UV disinfection system is over 30 years old. The antiquated system is inadequate to address current Enterococcus Bacterial permit requirements set by the Texas Commission on Environmental Quality (TCEQ). Additionally, the existing UV disinfection system equipment is in the Federal Emergency Management Agency 100-year base flood elevation and could be damaged during severe weather events causing the UV System to lose electrical power. The design includes a

parapet wall around the UV equipment, set at elevation of 29-foot NAVD88. this elevation is above the 100-year floodplain based on the 2015 maps; it is also above the elevation of any historic flooding event that occurred at the site. The new tertiary filter equipment will be placed on the basin upstream of the proposed UV system, the top of the structure that is at elevation 29-foot, will meet all FEMA requirements.

This project will replace the existing electrical service to the UV system and provides upgrades to the UV system equipment, controls, and structure. Proposed improvements include a new cloth disk filtration system, new UV disinfection structure, associated process and yard piping, associated electrical improvements, and access drives.

PROJECT TIMELINE:

2020							2021												2022		
J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
Bid/ Award				Construction																	

Project schedule reflects City Council award in September 2020 with anticipated completion in March 2022.

COMPETITIVE SOLICITATION PROCESS

The Contracts and Procurement Department issued a Request for Bids. On July 1, 2020, the City received bids from four bidders. The City analyzed the bids in accordance with the contract documents and determined CSA Construction, Inc. is the lowest responsive and responsible bidder. CSA Construction, Inc. has successfully completed numerous City utility projects since 1998 that include the Greenwood WWTP Expansion and is currently working on the Nueces River Raw Water Pump Station Improvements. A summary of the bids is provided below:

BID SUMMARY	
CONTRACTOR	BASE BID
CSA Construction, Inc.	\$5,990,000.00
Associated Partners, Ltd.	\$6,313,500.00
Garney Companies, Inc.	\$6,576,000.00
J.S. Haren Company	\$7,177,000.00
<i>Engineer's Opinion of Probable Construction Cost</i>	<i>\$5,930,479.00</i>

ALTERNATIVES:

The alternative is not to award the construction contract to the low-bidder, CSA Construction, Inc. This would delay improvements to the wastewater treatment plant and create more costly maintenance in the future. Not awarding the construction contract would cause TCEQ permit violations and fees.

FISCAL IMPACT:

The fiscal impact in FY2020 is an amount of \$5,990,000 for the construction of the Greenwood Wastewater Treatment Plant Electrical Improvements to Ultraviolet System project with project funds approved and available from the FY 2020 Wastewater Capital Improvement Program.

FUNDING DETAIL:

The FY 2020 Capital Improvement Program (CIP) included \$5,434,000 for this project (including construction and contingency) and the FY2021 has \$6,095,000 (including construction and contingency) identified for this project. The bids for the project came in an amount of \$5,990,000. The short fall in the funds from FY 2020 CIP in the amount of \$556,000 have been transferred through the Wastewater Capital Reserve to the project. The CIP funds for FY 2021 have been revised to meet the project requirement.

Fund: **Wastewater Capital Reserve (Fund 4510)**
Mission Elem: Wastewater Collection System (042)
Project: Greenwood WWTP Electrical Improvements to Ultraviolet System (E10180)
Account: 550910 Construction
Activity: E10180-01-4510-EXP
Amount: \$5,990,000

RECOMMENDATION:

Staff recommends awarding the construction contract for the Greenwood Wastewater Treatment Plant Electrical Improvements to Ultraviolet System project to CSA Construction, Inc., in the amount of \$5,990,000. The construction duration is planned for 18 months from issuance of the Notice to Proceed to begin construction in October 2020.

LIST OF SUPPORTING DOCUMENTS:

Location and Vicinity Map
Contract