



AGENDA MEMORANDUM

Action Item for the City Council Meeting of December 7, 2021

DATE: December 7, 2021

TO: Peter Zanoni, City Manager

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<p style="text-align: center;"><u>Construction Contract Award</u> O. N. Stevens Water Treatment Plant Sedimentation Basin Improvements</p>
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CAPTION:

Motion awarding a construction contract to CSA Construction, Houston, Texas, for the O.N. Stevens Water Treatment Plant Sedimentation Basin Improvements in an amount of \$6,683,000.00, with FY 2022 funding available from the Water CIP Fund.

SUMMARY:

This motion approves a construction contract with CSA Construction, Houston, Texas for the demolition of the existing Trac-Vac system and the installation of a new hoseless solids collection system with associated controls and supporting accessories, and structural rehabilitation to extend the remaining service life of the O.N. Stevens Water Treatment Plant (ONSWTP) sedimentation basins.

BACKGROUND AND FINDINGS:

The City owns and operates the 161.5 MGD ONSWTP. The ONSWTP consists of two treatment plants referred to as Plant No.1 and Plant No. 2. Plant No. 1 has a Trac-Vac solids collector system in its two primary sedimentation basins. The Trac-Vac is pneumatically driven and uses flexible hoses to supply air and remove alum sludge. The Trac-Vac system is unreliable and requires frequent maintenance. The City has also experienced difficulty obtaining replacement parts due to the age of the equipment. A condition assessment in January 2019 determined that the existing sedimentation basins can have their service life extended 20 – 25 years with structural repairs, but the Trac-Vac system is at the end of its economic life and needs to be replaced.

The City retained the team of Hazen and LNV to design the necessary improvements to the

ONSWTP Plant No. 1 sedimentation basins.

The proposed improvements include:

1. Rehabilitation of Sedimentation Basin Structures:
 - Demolish current Trac-Vac solids collection system.
 - Repair sedimentation basin foundation and walls, expansion joints, as well as concrete fill
2. Solids Collection System Replacement:
 - Install 24 new telescoping, cable-driven, solids collectors.
 - Install associated piping, electrical, mechanical and control equipment.
3. North and South Lagoon Decant Structures:
 - Install fiberoptic cable, ductbanks, cable tray, conduits, and pull boxes

PROJECT TIMELINE:

2020-2021	2021					2021-2022
March - June	J	A	S	O	N	December - May
Design	Bid/Award					Construction

Project Schedule reflects City Council award in December 2021 with anticipated construction completion in May 2022.

COMPETITIVE SOLICITATION PROCESS:

The Contracts and Procurement Department issued a Request for Bids for the ONSWTP Basin Improvements on August 2, 2021. On September 1, 2021, the City received four bids. The City requested the lowest two bidders to extend their bids beyond the 90-day bid evaluation period. MWH Constructors elected not to extend their bid beyond the 90-day period. Therefore, the lowest responsive and responsible bidder becomes the #2 bidder, CSA Construction, Inc. City Council was briefed in e-session regarding this item on November 16, 2021. A summary of the bids is provided below:

Bid Summary	
Contractor	Base Bid
MWH Constructors	\$6,393,995.00
CSA Construction, Inc.	\$6,683,000.00
Garney Companies, Inc	\$6,808,137.00
Associated Construction Partners, Ltd	\$7,788,300.00
Engineer's Opinion of Probable Construction Cost	\$5,814,000.00

CSA Construction, Inc. has significant experience working on water projects for the City including the Nueces River Raw Water Pump Station Improvements, the Oso WWTP Headworks, and the Greenwood WWTP UV System.

ALTERNATIVES:

The alternative is not to award the construction contract to the low bidder. This would delay needed improvements to the ONSWTP.

FISCAL IMPACT:

The fiscal impact in FY 2022 is an amount of \$6,683,000.00 with funding available from the Water CIP Fund.

FUNDING DETAIL:

Fund: **Water 2021 CIP (Fund 4484)**
Mission Elem: Water Treatment (062)
Project: ONSWTP Sedimentation Basin Improvements (Project No. 18130)
Account: Construction (550910)
Activity: 18130-A-4484-EXP
Amount: \$6,683,000.00

RECOMMENDATION:

Staff recommends awarding a construction contract to CSA Construction, Inc. of Houston, Texas for the ONSWTP sedimentation basin improvement project in the amount of \$6,683,000.00, with construction duration planned for 15 months from issuance of the Notice to Proceed.

LIST OF SUPPORTING DOCUMENTS:

Location and Vicinity Maps
Bid Tabs
CIP Page