Recommendation for Action

File #: 21-3321, **Agenda Item #:** 15. 11/18/2021

Posting Language

Authorize negotiation and execution of an amendment to the professional services agreement with Harutunian Engineering, Inc., (WBE) for the Walnut Creek Wastewater Treatment Plant Controls and Network Upgrades project in an amount not to exceed $4,520,127.95. This item is related to 21-3322

[Note: This amendment will be awarded in compliance with City Code 2-9B (Minority Owned and Women Owned Business Enterprise Procurement Program). Current participation to date is 12.25% MBE and 87.75% WBE participation.].

Lead Department

Capital Contracting Office.

Managing Department

Public Works Department.

Fiscal Note

Funding is available in the Fiscal Year 2021-2022 Capital Budget of Austin Water.

Purchasing Language:

Original contract was awarded through a qualifications-based selection process.

Prior Council Action:

January 27, 2017 - Council approved a professional services agreement with Harutunian Engineering, Inc., for design phase services for the Walnut Creek Wastewater Treatment Plant Controls and Network Upgrades project.

For More Information:

Inquiries should be directed to the City Manager's Agenda Office, at 512-974-2991 or AgendaOffice@austintexas.gov <mailto:AgendaOffice@austintexas.gov>

NOTE: Respondents to this solicitation, and their representatives, shall direct inquiries to Rolando Fernandez, 512-974-7749, Rick Wilson 512-974-7261, or the Project Manager, Gabriel Castaño, 512-974-2937.

Council Committee, Boards and Commission Action:

November 3, 2021 - Recommended by the Water and Wastewater Commission on a 6-0 vote with Commissioner Penn recusing and Commissioners Michel, Musgrove, and Williams absent and one vacancy..

January 11, 2017 - Item passed on Commissioner Turrieta's motion and Commissioner Penn's second on an 8 -0 vote with Commissioners Ho, Kellough, and Parker absent.

Additional Backup Information:

Walnut Creek Wastewater Treatment Plant (WTP) is permitted to treat and discharge an average daily flow of

75 million gallons per day (MGD) and a 2-hour peak flow of 165 MGD. Treated plant effluent is discharged into the Colorado River. A portion is used for non-potable water on the plant site and supplies much of the City's growing Reclaimed Water program.

Walnut Creek WTP uses Supervisory Control and Data Acquisition (SCADA) extensively for process control and monitoring. The system is made up of Programmable Logic Controllers (PLCs) located in proximity to process areas of the plant, and a PLC network. Most of the existing SCADA system is made up of PLCs and a dual channel copper SY/NET network that have exceeded their expected useful life. This system was installed around 1990 as part of a plant-wide network renovation. Recent projects have installed fiber optic cabling and Ethernet communications to some portions of the plant, but the plant fiber network has not been addressed as a whole.

The intent of this project is to replace the control system network and hardware with modern equipment which follows Austin Water SCADA standards. This will be achieved by replacing existing PLCs, upgrading computers that run SCADA software, and utilizing fiber optic cabling and Ethernet networking equipment to extend the SCADA Ethernet network to portions of the plant currently served by SY/MAX PLCs and SY/NET.

An amendment to the professional services agreement is required to move the project forward from design phase into construction phase services.

The amendment includes base construction phase services, as well as programming services and startup services. Programming and startup services are sometimes included in the construction contract, but due to the specialized and technical nature of the project, they are included here as part of professional services. Since this project primarily consists of replacing SCADA equipment, the amount of programming and startup services, as a percentage of the construction cost, is higher compared to a project that includes primarily civil and mechanical scope with associated minor SCADA equipment.

It is important for this project to move forward because of the age and condition of the equipment. If the project is not approved, the plant's ability to reliably accept and treat wastewater may be impacted.

No public impacts are anticipated. All improvements will be within the Walnut Creek WTP site.

This amendment has been approved by the City's Change Control Committee. The Change Control Committee was established to comply with Council Resolution No. 20120126-048, which required the establishment of consistent criteria and process to evaluate contractual changes for all contracts administered by the Capital Contracting Office. The Change Control Committee is comprised of management-level subject matter experts.

This project is located within zip code 78724 (District 1).

Strategic Outcome(s):

Health and Environment.