

## A G E N D A



## Recommendation for Council Action (CLMD)

Austin City Council

Item ID:

54042

Agenda Number

13.

Meeting Date:

1/28/16

Department:

Capital Contracting Office

## Subject

Authorize execution of a construction contract with MATOUS CONSTRUCTION, LTD., for the South Austin Regional Wastewater Treatment Plant Tertiary Filter Improvements project, in the amount of \$24,718,610 plus a \$1,235,930 contingency in an amount not to exceed \$25,954,540.

## Amount and Source of Funding

Funding is available in the Fiscal Year 2015-2016 Capital Budget of Austin Water.

## Fiscal Note

A fiscal note is attached.

**Purchasing Language:**

Lowest responsive bid of three bids received through a competitive Invitation for Bid solicitation.

**Prior Council Action:**

**For More Information:**

Steve Parks, 512-974-3576; Brent Bassett, 512-972-0653; Lucy Bonee, 512-974-7967; Rolando Fernandez, 512-974-7749; Sarah Torchin, 512-974-7141.

**Boards and Commission Action:**

January 13, 2016 - Recommended by the Water and Wastewater Commission.

**Related Items:**

**MBE / WBE:**

This contract will be awarded in compliance with City Code Chapter 2-9A Minority Owned and Women Owned Business Enterprise Procurement Program through the achievement of Good Faith Efforts with 15.47% MBE and 0.17% WBE participation.

## Additional Backup Information

The effluent filters at the South Austin Regional Wastewater Treatment Plant serve as the final step in the wastewater treatment process before the effluent is discharged to the Colorado River or reused through the City's water reuse initiative. This final filtration stage, or tertiary filtration, is required in order to comply with Texas Commission on Environmental Quality wastewater discharge and water reuse requirements. The Filter Building and 12 granular media gravity filters were constructed in 1988 with expansion of Treatment Train B and have an average day capacity of 40 million gallons per day. Many of the filter components and ancillary equipment are in need of replacement due to age and deterioration.

The purpose of this contract is to make improvements to the filter system to provide reliable treatment and performance for an estimated 25-year planning horizon. The work included in the base bid consists of converting four of the existing 12 filter bays from granular media filters to cloth media disk filters. The existing gravity filters will be removed and four, 3 million gallons per day, disk filter units will be placed in each of the four filter basins. These 16 disk filter units will provide sufficient capacity to replace the existing filtration system at the South Austin Regional Wastewater Treatment Plant.

The construction project will consist of complex activities requiring multiple shutdowns of the filter system and the three treatment trains at the South Austin Regional Wastewater Treatment Plant while existing piping and equipment is removed and replaced with larger equipment, piping, and disk filter components. Demolition of existing equipment will be completed to ensure that the new filter system will be functional and conducive to maintenance. Extensive planning and changes to the operation of the plant will be required to mitigate risks of treatment process upsets due to the construction related activities. Additionally, temporary filtration will be provided during the construction process to ensure commitments under the Water Reuse Initiative are met at all times.

The bid documents include seven alternate bid items to allow for completion of various work packages. Alternative 1 includes the addition of eight more disk filter units to increase the total filtration capacity from 48 to 72 million gallons per day, closely matching the 75 million gallons per day average day capacity of the South Austin Regional Wastewater Treatment Plant. It also includes modifications to the clearwell to increase the flow capabilities during excess flow conditions such as heavy rain events. Alternatives 2 through 6 include removal of mechanical systems associated with the gravity filtration that are no longer required, and includes cleaning debris from the clearwell and mudwell that will be accessible during the construction process. Finally, Alternative 7 provides filtration capacity during construction for the entire plant capacity.

The recommendation for award of this contract includes acceptance of the base bid, plus Alternatives 1 through 6. Alternative 7 is not being accepted due to budgetary considerations.

There has been no public involvement in this project as all work is planned to be completed on the SAR treatment plant site which is a considerable distance from surrounding neighborhoods. No public impact is anticipated.

It is important that major components of this work be conducted outside of the winter months when required plant shut downs of certain parts of the treatment process can be accommodated. Timely approval of this work will provide optimum flexibility for scheduling planned shut downs. Additionally, as this project is the first of several major projects proposed for SAR, prompt approval is requested so that the project can be initiated and executed in a manner that will not impact forthcoming construction projects.

Due to the potential for unknown conditions at the site, a 5% contingency in funding has been included to allow for the expeditious processing of any change orders. A contingency is an additional amount of money added to the construction budget to cover any unforeseen construction costs associated with the project.

The contract allows 850 working days for completion of this project. This project is located within zip code 78617

(District 2) and is managed by the Public Works Department.

Matous Construction, Ltd. is located in Belton, Texas.