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5-18-09

City Council Report

Date: May 18, 2009
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Elizabeth Huning, City Engineer
Subject: Northwest Water Reclamation Plant
Miscellaneous Rehabilitation Improvements
City of Mesa Project No. 07-010-001
Council District 1

Purpose and Recommendation

The purpose of this report is to present the Guaranteed Maximum Price (GMP) for the Northwest Water Reclamation Plant (NWWRP) Miscellaneous Rehabilitation Improvements, a Construction Manager at Risk (CMAR) project.

It is recommended that Council award this project to Garney Construction in the amount of \$1,664,456.20 for the rehabilitation of below grade concrete structures, metal gate guides, the influent bar screens and other work throughout the NWWRP.

Background

Recent inspection of several structures at the NWWRP identified significant deterioration of below grade concrete structures, influent bar screen equipment, and metal gate guides. These deteriorated structures include the influent structure, the headworks and the primary clarifiers. All of these concrete structures and equipment receive, convey and/or provide treatment of the wastewater as it enters the Plant. These facilities are particularly susceptible to corrosion due to the high levels of hydrogen sulfide that exist in wastewater. The majority of these structures, as well as the barscreen equipment and the metal guides, are 20 years old and have served the City well considering the corrosive environment to which they have been exposed.

In addition to repairing the deteriorated structures and bar screens, this project will replace the existing pumps in the Solids Building; install automated gates for the disinfection system; and other miscellaneous improvements. These facilities have required excessive maintenance and require repair/replacement.

Community Impact – The project will repair the deteriorated facilities and extend their useful life, reduce maintenance and operation of the facilities and reduce the risk of system failure. Temporary impacts to the area may include traffic lane restrictions to the NWWRP entrance, construction noise, and odors. Once work is started, project

completion is anticipated within one hundred and thirty-five (135) consecutive calendar days.

Discussion

In March 2008, staff received four Statement of Qualifications (SOQ) from potential contractors to act as the Construction Manager at Risk (CMAR) for this project. Based on evaluation of the SOQ's and interviews, the contractor, Garney Construction, was recommended to City Council in August 2008 for approval as the CMAR. Since that time, the design has been completed and the contractor has bid the various trades of work. The Guaranteed Maximum Price (GMP) is now being presented to the Council for review and approval.

This project will repair the existing equipment and rehabilitate the existing concrete structures. To complete this work, full bypass pumping of the wastewater flows in the existing structures is required. A bypass pumping and screening plan has been prepared that minimizes impacts to the NWWRP and the public.

Alternatives

One alternative for the project would be to not rehabilitate the various facilities at the NWWRP. This is not recommended since the existing facility will continue to deteriorate resulting in costly repairs and the potential for future failures.

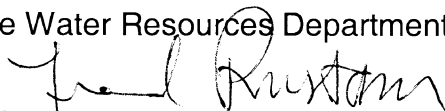
Staff recommends the use of CMAR for this contract due to the complexity of the project. CMAR contracting will result in a better quality project and a potential reduction in construction change orders and related claims since the CMAR has been involved throughout the design phase. Having the contractor at the table during design has also resulted in a more efficient and effective way to build this complex project.


Fiscal Impact

The total award amount of the GMP is \$1,513,142.00 plus an additional \$151,314.20 (10% allowance for change orders) for a total award of \$1,664,456.20. Funding is available in the Preliminary 09/10 Wastewater Capital Bond Program.


Coordinated With

The Water Resources Department concurs with this recommendation.


for _____
Kelly Jensen, Assistant City Engineer



Elizabeth Huning, City Engineer



Jack Friedline, Deputy City Manager

