



City Council Report

Date: December 10, 2018
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Marc Ahlstrom, Assistant City Engineer
Subject: Greenfield Water Reclamation Plant Phase III Expansion, Guaranteed Maximum Price (GMP) No. 4 Electrical Reliability Improvements

City Project No. CP0067
District-Citywide

Purpose and Recommendation

The purpose of this report is to present the Guaranteed Maximum Price (GMP) No. 4 for the Greenfield Water Reclamation Plant (GWRP) Phase III Expansion, Electrical Reliability Improvements, a Construction Manager at Risk (CMAR) project. (See Exhibit "A" for project location).

Staff recommends that Council authorize a contract for the completion of this project to McCarthy Building Companies in the amount of \$641,696.00 and authorize a change order allowance (5%) in the amount of \$32,085.00.

Background

At the Greenfield Water Reclamation Plant, this project will enhance the electrical service reliability for this end-of-the-line plant by providing a temporary generator connection interface, redundant panels at the filter area and other improvements.

Discussion

The GWRP is currently undergoing an expansion from 16 million gallons per day (MGD) to 30 MGD, with the project slated to be completed in Fall 2020. During the design phase, staff identified additional points of the existing plant's electrical system that could potentially fail under certain conditions. Staff determined that the likelihood and consequences of failure were significant enough to warrant the addition of certain electrically redundant features.

In order to alleviate the risks associated with possible electrical failures at the plant, the City of Mesa, Town of Gilbert, and Town of Queen Creek (the "Owners") agreed to add these electrical system redundancy features.

Once underway, construction of this project is anticipated to occur in the same time period as the plant expansion which has a completion date in the fall of 2020.

Alternatives

An alternative to the approval of a Construction Services contract for this CMAR would be to construct this project using the traditional Design/Bid/Build method. This is not recommended due to the schedule of the project. Allowing McCarthy to perform this work will ensure that the current ongoing expansion can proceed smoothly without interference from an outside contractor.

Another alternative is not to perform the work. This is not recommended because the GWRP is an end of the line plant, and if a power feed fails, there is no alternative treatment facility to which the incoming sewage can be diverted.

Fiscal Impact

The total authorized amount recommended for the fourth GMP for this project \$641,696.00 and authorize a change order allowance (5%) in the amount of \$32,085.00. for a total authorization of \$673,781.00. This change order allowance will only be utilized for approved change orders.

This project is funded by the Greenfield Water Reclamation Plant Joint Venture Fund, with contributions coming from its members based on usage. Mesa's portion of this GMP is \$386,943.00 and is funded by 2014 authorized Wastewater bonds.

Coordinated With

The Water Resources Department concurs with this recommendation. Also, this project was coordinated with the Towns of Gilbert and Queen Creek as partners in the Greenfield Water Reclamation Plant Intergovernmental Agreement dated August 7, 2018.