



City Council Report

Date: February 5, 2018
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Rob Kidder, Assistant City Engineer
Subject: Sewer Pipe and Manhole Rehabilitation: Mesa Drive, Millet Avenue, Horne, and 6th Avenue
City Project No. CP03830009
Council District # 4

Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for the Sewer Pipe and Manhole Rehabilitation: Mesa Drive, Millet Avenue, Horne, and 6th Avenue Project (See Exhibit "A" for the project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, B and F Contracting, Inc, in the amount of \$1,394,294.67, and authorize a change order allowance in the amount of \$139,430.00.

Background

The existing sanitary sewer lines covered by this project were built during the 1950's and 1960's. The age of these pipes greatly increases their risk of failure and emergency repairs. Currently, there are several areas with defects that need to be repaired. The Water Resources Department has a sewer pipe inspection and condition assessment program that identifies and prioritizes older and/or defective sewer pipes that will require rehabilitation or replacement. The sewer pipes and manholes included in this project were identified for rehabilitation as part of this program.

Discussion

This project will rehabilitate and extend the service life of approximately 8,200 linear feet of existing sanitary sewer lines and 37 manholes using trenchless technology that minimizes the impact to traffic. The existing sewer lines will remain in place and be lined with a cured-in-place liner. This method of construction can be completed while leaving the pipe in place and without excavation. Similarly, the sewer manholes will be cleaned, repaired, and coated in place. Only the concrete adjustment rings will be removed and replaced.

The consultant has determined that cured-in-place rehabilitation is the most cost effective and least invasive method and the Water Resources Department concurs with this approach. While there was only one contractor that submitted a bid, this is

not unusual for this type of work which is very specialized. The bidder was within 1% of the Engineer's Estimate.

Community Impact

Impact to the Mesa residents and business owners who are served by these sewer lines will be minimal. Traffic barricading around the manholes will not adversely impact business access and will be much shorter in duration than traditional construction. Sewer services will be maintained and the level of service will improve once the project is completed. All phases of construction of this project are anticipated to last for 5 months.

Alternatives

An alternative to this project would be to not construct these improvements. This would result in continued deterioration of the existing sewer lines and manholes with the risk of failure and potential Sanitary Sewer Overflows (SSO).

Fiscal Impact

The total authorized amount recommended for this project is \$1,533,724.67, based upon the lowest responsible bid of \$1,394,294.67, plus an additional \$139,430.00 (10%) as a change order allowance. This allowance will only be utilized for approved change orders. Funding is available from the 2014 Wastewater Bond Program.

Coordinated With

The Water Resources Department concurs with this recommendation.

CITY OF MESA
MESA, ARIZONA

Sewer Pipe and Manhole Rehabilitation: Mesa Drive,
Millett Avenue, Horne and 6th Avenue

PROJECT NO. CP03830009

Tabulation of Bids Received, Thursday, May 12, 2017, at 2:00 P.M.

ENGINEER'S ESTIMATE	\$1,377,622.00
1. B+F Contracting, Inc.	\$1,394,294.67