



City Council Report

Date: March 2, 2020
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Marc Ahlstrom, Assistant City Engineer
Subject: McDowell Road Underpass Repair
City Project Number CP0776
District 5

Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for the McDowell Road Underpass Repair (See Exhibit "A" for the project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Schulz Contracting, in the amount of \$1,432,638.00, and authorize a change order allowance in the amount of \$143,264.00 (10%).

Background

The McDowell Road underpass and bridge were built in 1985 to connect Falcon Field on the south side of McDowell Road and Boeing's facility on the north. The underpass retaining walls are based on a crib wall structure. The crib wall design includes spaces in the structure for vegetation to grow which keeps the soil from eroding. In the case of McDowell Road, the crib wall vegetation never established so soil erosion has been occurring. The land adjacent to the top of the crib wall slopes toward the wall thus directing water to the crib wall accelerating the erosion. Washed out soil accumulates on the sidewalk causing frequent maintenance issues. The erosion has now progressed to where repair is needed to prevent structural deterioration.

Discussion

The project scope includes applying shotcrete the face of the crib wall and filling the voids left from soil erosion. A concrete channel will be added to the top of the crib wall to direct water away from the wall face.

Once underway, construction of this project is anticipated to last no more than 6 months.

Alternatives

The alternative is not to perform the work. This is not recommended because the erosion will continue and lead to on-going maintenance and deterioration of the structure. This could result in extensive repair of the underpass including temporary road closures and loss of use of the underpass.

Fiscal Impact

The total authorized amount recommended for this project is \$1,575,902.00, based upon the lowest responsible bid of \$1,432,638.00, plus an additional \$143,264.00 (10%) as a change order allowance. This change order allowance will only be utilized for approved change orders.

This project is funded by the Local Street Sales Tax.

Coordinated With

The Transportation Department concurs with this recommendation.

CITY OF MESA
MESA, ARIZONA

McDowell Rd. Underpass Repairs

PROJECT NO. CP0776

Tabulation of Bids Received, Thursday, December 12, 2019, at 1:30PM

ENGINEER'S ESTIMATE	\$1,278,844.18
1. Schulz Contracting	\$1,432,638.00
2. Standard Construction Co.	\$1,740,244.00