



City Council Report

Date: February 11, 2019
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Rob Kidder, Assistant City Engineer
Subject: Various Locations – City of Mesa Traffic Signal Cabinet Upgrades
City Project No. CP0653
(Citywide)

Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for Various Locations – City of Mesa Traffic Signal Cabinet Upgrades (See Exhibit “A” for the project locations).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Roadway Electric LLC, in the amount of \$ 1,420,499.00, and authorize a change order allowance in the amount of \$142,049.90(10%).

Background

This project consists of Intelligent Transportation System (ITS) improvements that involve the removal, recycling, and replacement of 44 traffic signal cabinets, at various locations throughout the City of Mesa. The existing 44 traffic signal cabinets are interconnected signals with outdated cabinets and aging controllers that are no longer supported by the manufacturer. This existing equipment will be replaced with upgraded cabinets and controllers that will simplify communications, support additional vehicle detectors, and increase diagnostics which will enhance safety. By replacing and upgrading this equipment, City staff will be able to more effectively manage traffic; improve motorist, pedestrian, bicyclist, and City maintenance staff safety; and promote more efficient energy use.

This new equipment complies with the City’s ITS standard details and specifications.

Discussion

The scope of this project includes the purchasing, testing, and installation of new traffic signal cabinets and controllers at 44 intersection locations throughout the City of Mesa, within the City’s right-of-way. The Contractor will work with the City to establish

communication between the new controllers to the Traffic Management Center (TMC) for enhanced traffic management and diagnostics capabilities.

A total of 29 new cabinets will be installed on the existing cabinet's concrete foundation. The remaining 15 cabinets will be installed on new concrete foundations in new locations, and the existing cabinet foundation at each of those intersections will be demolished and removed. Meter pedestals will be installed at 20 of the cabinet locations. The existing cabinets will be recycled.

Once underway, construction of this project is anticipated to last no more than 210 days. The expected impact to traffic will be minimal. There will be no disturbance to neighboring residents or businesses as a result of this project's construction.

Alternatives

An alternative to this project would be to not construct these improvements. This is not recommended because these improvements are critical to improving the efficiency of traffic management, improve motorist, pedestrian, bicyclist, and City maintenance staff safety, and promote energy efficiency. These improvements are a priority for the Transportation Department and these equipment upgrades are necessary for ease of maintenance and synchronization with the current traffic signal system.

Fiscal Impact

The total authorized amount recommended for this project is \$1,562,548.90, based upon the lowest responsible bid \$1,420,499.00, plus an additional \$142,049.90(10%) as a change order allowance. This change order allowance will only be utilized for approved change orders.

This project is funded by Federal Congestion Mitigation and Air Quality (CMAQ) Improvement Project Management grants (73.5%) and local funds provided by the City of Mesa Local Street Sales tax (26.5%).

Coordinated With

The Transportation Department concurs with this recommendation.

CITY OF MESA
MESA, ARIZONA

Various Locations – City of Mesa Traffic Signal Cabinet Upgrades

PROJECT NO. CP0653

Tabulation of Bids Received on Thursday, November 29, 2018, at 1:00pm.

ENGINEER'S ESTIMATE	\$1,022,150.00
1. Roadway Electric, LLC.	\$1,420,499.00
2. CS Construction Inc.	\$1,454,269.00
3. Contractors West	\$1,984,875.00
4. Arizona Traffic Signal	Non-Responsive