



# City Council Report

**Date:** September 18, 2017  
**To:** City Council  
**Through:** Kari Kent, Assistant City Manager  
**From:** Beth Huning, City Engineer  
Marc Ahlstrom, Assistant City Engineer  
**Subject:** Mesa-Falcon Field Airport (FFZ)  
Airfield Lighting and Signage Upgrades  
City Project No. CP0114  
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 Mesa-Falcon Field Airport (FFZ) Airfield Lighting and Signage Upgrades (See Exhibit "A" for the project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Rural Electric, Inc., in the amount of \$1,331,146.00, and authorize a change order allowance in the amount of \$133,114.60 (10%).

## Background

The airfield lighting system is over 30 years old and in need of replacement. This project will enhance safety at Falcon Field Airport by replacing aging equipment and cabling that is at the end of its useful life. Improvements will also include upgrading from the existing incandescent lighting equipment to light emitting diode (LED) technology that will improve reliability and efficiency while also reducing utility costs.

The proposed improvements are part of the Falcon Field Airport Master Plan and included in the Airport Capital Improvement Program (ACIP) process to qualify for airport grant funding. This project was subsequently approved for federal funding by the Federal Aviation Administration (FAA). On July 10, 2017 Council accepted an Airport Improvement Program (AIP) Grant Offer Agreement from the FAA that provides 91.06% of the necessary construction funding.

## **Discussion**

The proposed improvements to the airfield lighting systems include new fixtures and LED upgrades for runway edge lights, taxiway edge lights, and guidance signs. The upgrades also include new and replacement underground conduits where needed, electrical cable replacement and upgrades, pullbox and handhole upgrades and grounding, new Constant Current Regulators (CCRs) and related equipment at the existing airfield electrical vault building, and four new apron mast lights, also using LED fixtures, for improved lighting of the Terminal Parking Apron.

This project will improve airport operations, efficiency, and safety at Falcon Field Airport. Once underway, the project construction is anticipated to last no more than 6 months. All work is on the airport, with no traffic restrictions on public streets. Temporary restrictions for air traffic have been coordinated with the FAA air traffic control tower staff, and they are in concurrence with the proposed project.

## **Alternatives**

An alternative to this project would be to not construct these improvements. This alternative is not recommended because the airfield lighting and runway safety improvements would then not be implemented in accordance with Falcon Field Airport's Runway Safety Action Plan. Additionally, FAA and ADOT funding may not be available in the future if this project is deferred.

## **Fiscal Impact**

The total authorized amount recommended for this project is \$1,464,260.60 based upon the lowest responsible bid of \$1,331,146.00 plus an additional \$133,114.60 (10%) as a change order allowance. This allowance will only be utilized for approved change orders.

The approved FAA grant will fund 91.06% of the total estimated cost with local matching funds required for the remaining 8.94%. Falcon Field has applied to the Arizona Department of Transportation, Aeronautics Group (ADOT) for a matching grant to fund 4.47% and the Airport Enterprise Fund will fund the remaining 4.47%. If an ADOT grant is not received, Falcon Field will fund the entire local match of 8.94%, with funding available from the adopted FY2017-18 Falcon Field Capital Program.

## **Coordinated With**

Falcon Field Airport and the FAA and concur with this recommendation.

CITY OF MESA  
MESA, ARIZONA

Mesa-Falcon Field Airport (FFZ)  
**Airfield Lighting and Signage Upgrades**

**PROJECT NO. CP0114**

Tabulation of Bids Received, Thursday, July 27, 2017, at 1:00 p.m.

|                            |                       |
|----------------------------|-----------------------|
| <b>ENGINEER'S ESTIMATE</b> | <b>\$1,987,579.00</b> |
| 1. Rural Electric, Inc.    | \$1,331,146.00        |
| 2. AJP Electric, Inc.      | \$1,421,512.75        |
| 3. Roadway Electric, LLC   | \$1,808,710.45        |