

**AIRPORT MAINTENANCE BRIDGE  
REPLACEMENT  
CIP AP1901**

**November 5, 2019  
Sugar Land Regional Airport  
Engineering Department**

**CITY OF SUGAR** *Texas* **LAND**

## Project Background

- Existing airport maintenance bridge over Oyster Creek experienced damage during Harvey:
  - flow velocities in the channel
  - debris accumulation under bridge
- Intermediate spans displaced more than 10 inches (Horizontally)
- During flooding events bridge is not accessible
- Condition assessment in 2018
  - bridge is not safe to use and should be replaced



# Project Location



**CITY OF SUGAR LAND**  
**AIRPORT OYSTER CREEK MAINTENANCE BRIDGE**  
**REPLACEMENT**



## Project Background

- Initial scope of work considered replacing the bridge with a similar bridge:
  - 12-ft wide/60-ft long bridge/10,000 lb loading capacity
- Hydraulic analysis found adverse impact to water surface elevation in Oyster Creek for a similar bridge
- The ongoing Airport Master Plan identified future construction projects on the north side of Oyster Creek will require a bigger bridge to carry larger required loads

## Project Background

- **New Designed Bridge**
  - loading capacity: 54,000 lb
  - 15-ft wide & 80-ft long
  - 18-in above the Base Flood Elevation (Oyster Creek)
- **Due to close proximity to runway contractor will have to work at night during installation of piers and bridge abutments**
- **Modifications to bridge design in conjunction with night work requirements resulted in cost increases from the original estimate**

# Project Budget

- **Staff preferred to bid and receive qualified bids to determine**
  - **amount of additional funds required**
  - **FY20 budget amendment (as needed)**
- **Airport Fund Balance will cover the additional funds required**

## Contractor Selection

- Design and bid documents were completed in August 2019
- Advertised for Bid on September 4 and 11, 2019
- Bids were open on October 3, 2019
- Six (6) bids were received



## Bid Summary

CONTRACTOR	BID AMOUNT
Leland Bradlee Construction, Inc.	\$364,392
NBG Constructors Inc.	\$406,869
John Reed and Company LLC	\$427,646
WadeCon LLC	\$435,653
GAEL, Inc.	\$485,387
DG Medina Construction, LLC	\$500,446



## Project Funding

Construction Contract	\$364,392
5% contingency	\$ 18,220
Material testing/Const. Serv.	\$ 14,738
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Total Funds Needed	\$ 397,350
 CIP AP1901 Available Funds	 \$217,376
Additional Funds Needed (Budget Amendment from Airport Fund Balance)	 \$179,974

# Project Schedule

- **Notice to Proceed:**                      **November 2019**
- **Substantial Completion:**              **February 2020**

## Construction Notifications

- Project is located in a restricted area at Airport
- It will have no direct impact on residents
- Engineering and airport staff will maintain communication with the following:
  - Federal Aviation Administration (FAA)
  - Gulf Coast Water Authority (GCWA)

## REQUEST FOR APPROVAL

- Approve a Construction Contract with Leland Bradlee Construction Inc., in the amount of \$364,392 for the Airport Maintenance Bridge Construction CIP AP1901 and authorize a budget amendment of \$179,974 from the Airport Fund Balance to CIP AP1901.



# CLARIFYING QUESTIONS FOR STAFF

# COUNCIL MOTION & DISCUSSION