



City Council Meeting STAFF REPORT

Submitting Department: Public Works
Submitted By:
Meeting Date: May 1, 2017

I. AGENDA ITEM TITLE:

KIMBALL BRIDGE ROAD AT ROCK MILL ROAD ROUNDABOUT - DESIGN SERVICES

II. RECOMMENDATION:

Please approve Change Order #2 to Purchase Order 17000149 (AECOM Technical Services Inc.) in the amount of \$51,545.00 for the design of a roundabout at the intersection of Kimball Bridge Road and Rock Mill Road; and authorize the Mayor to execute all necessary documents.

III. BUDGET IMPLICATIONS:

BUDGETED ITEM: YES

FISCAL IMPACT: YES

INCLUDED IN CURRENT FY CPTL BUDGET: YES

INCLUDED IN CURRENT
FY OPRT. BUDGET: NO

TOTAL PROJECT COST: \$538,625.00 FOR DESIGN (\$473,600.00 ORIGINAL VALUE FOR PO#17000149 + CHANGE ORDER #1 OF \$13,480.00 PREVIOUSLY APPROVED + CHANGE ORDER #2 OF \$51,545.00 REQUESTED HEREIN).

APPROPRIATIONS:

ACCOUNT TITLE/NUMBER	DOLLAR AMOUNT
Kimball Br Rd Improvements (31741100-541410-C1702)	\$51,545.00

EXTERNAL FUNDING SOURCES:

ACCOUNT TITLE/NUMBER	DOLLAR AMOUNT
N/A	\$0.00

IV. REPORT IN BRIEF:

This change order request is for design modifications to the Kimball Bridge Road Congestion Mitigation project to incorporate a roundabout at the intersection of Kimball Bridge Road and Rock Mill Road.

On January 24, 2017 the City held an open house at New Prospect Elementary School to provide citizens with an opportunity to see the preliminary design of the improvements to the Kimball Bridge Road corridor between North Point Parkway and Waters Road. Among the comments Staff received, were multiple inquiries as to the feasibility of a roundabout at the intersection of Kimball Bridge Road and Rock Mill Road in lieu of the existing traffic signal.

Following the open house, Staff directed AECOM to evaluate the feasibility and impacts of a roundabout at said intersection. AECOM developed a dual-lane roundabout concept and modeled it in comparison to the originally proposed traffic signal. The modeling indicates that the roundabout, in conjunction with the other corridor improvements, will provide an overall Level of Service (LOS) A for the intersection in both the AM and PM peaks of the open year of 2018 and the design year of 2038. By comparison, the traffic signal originally proposed would provide an overall LOS B for the intersection in both peak hours in both 2018 and 2038. Currently, the intersection provides a LOS E in the AM peak and a LOS F in the PM peak.

On April 27, 2017, the City held another open house at New Prospect Elementary to present the roundabout concept to the public and solicit feedback.

The original design fee for the Kimball Bridge Road Congestion Mitigation project was \$473,600.00. Change Order #1 in the amount of \$13,480.00 for concept design and VISSIM modeling of the roundabout was issued on February 21, 2017. The fee for Change Order #2 is \$51,545.00, which consists of a base design fee of \$40,045.00 and an additional \$11,500.00 for the preparation of a lighting plan for the roundabout. This will increase the purchase order from \$487,080.00 to \$538,625.00. The addition of the roundabout design will add an additional six weeks to the project schedule with Final Plans due on July 20, 2017.

V. ALTERNATIVES:

None

VI. ATTACHMENTS:

AECOM Proposal, Roundabout Concept