



19-1010

TITLE: Consider/Discuss/Act on a Resolution Authorizing the City Manager to Execute a Contract with Kimley-Horn and Associates, Inc. for Engineering Services for CO1633 - SH 5 Utility Relocations Project and Any Necessary Supplemental Agreements

COUNCIL GOAL: Operational Excellence
(2B: Balance available resources to accommodate the growth and maintenance needs of the city)

MEETING DATE: December 3, 2019

DEPARTMENT: Development Services/Engineering

CONTACT: Nick Ataie, PE, CIP Manager
Paul Tucker, PE, Senior Utility Engineer

RECOMMENDED CITY COUNCIL ACTION:

- Approval of the Resolution.

ITEM SUMMARY:

- This Resolution authorizes the City Manager to execute a contract in the amount of \$1,592,000, as well as all required supplemental agreements thereto, with Kimley-Horn and Associates, Inc. to provide professional engineering services for the SH 5 Utility Relocations project, for a total aggregate contract amount, inclusive of any supplemental agreements, not to exceed \$1,830,000.

BACKGROUND INFORMATION:

- The Texas Department of Transportation (TxDOT) is in the process of design and right-of-way acquisition for the upcoming reconstruction of SH 5 from Spur 399 to Power House Street in eastern McKinney. TxDOT has the construction bidding scheduled for late 2021.
- The SH 5 Utility Relocations project is required to relocate and improve the existing water and sanitary sewer mains and services to clear the proposed roadway facilities needed by TxDOT prior to the roadway construction.
- There is approximately 28,000 linear feet of existing water distribution lines

ranging in size from 8 inch to 24" and 11,000 linear feet of existing sanitary sewer collection lines ranging in size from 8 inch to 48 inch along SH 5 that are in conflict with the proposed TxDOT reconstruction project. Some of the relocated water and sanitary sewer lines will be upsized per the Water and Wastewater Master Plans.

- Permanent easements and temporary construction easements will be needed in areas where the space is limited for the relocated water and sanitary sewer lines. There are approximately eighty (80) parcels that easements are expected to be acquired along the project limits.
- A Standard Utility Agreement (SUA) with The Texas Department of Transportation (TxDOT) will be prepared as a part of this project for reimbursement by TxDOT of expenses for the SH 5 Utility Relocations project. The total cost of the City utility relocation project, including design, easement acquisition, construction, project management, and construction inspection is estimated to be \$17,055,000. The estimated reimbursement percentage from TxDOT will be 25% (\$5,400,000) and will be paid, after the completion of the utility relocation project.
- Kimley-Horn and Associates, Inc. submitted a response to RFQ 18-46 for On-call Utility Design Services. They were one of eleven firms shortlisted by City Council on October 2, 2018.
- Interviews for the SH 5 Utility Relocations project were conducted by the Engineering Department and Kimley-Horn and Associates, Inc. was selected based on their understanding of the project, availability to perform the project, and their experience and knowledge with other utility projects in congested roadway corridors.
- They were selected from this group based on their availability to perform the project and their experience with similar projects in the DFW metroplex.
- Staff has negotiated a project proposal with Kimley-Horn and Associates, Inc. in the amount of \$1,592,000. Their scope includes the following elements:
 - Basic Services (Design Services & Bid Phase Services)
 - Special Services (Field Topographic Survey, Subsurface Utility Exploration, Franchise Utility Coordination, Right-of-Way and Easement Documentation, Environmental Investigations, Geotechnical, Cathodic Protection, and Construction Administration Services).
- Construction of this project is estimated to cost approximately \$11,367,000. Kimley-Horn and Associates, Inc. submitted a proposal of \$1,592,000 (14.01% of the estimated construction) to perform the engineering services. The proposed fee is separated into basic services of \$973,700 (8.57% of the construction) and \$618,300 (5.44% of construction) in additional services.
- Staff is recommending a 15% design contingency for the project in the event that

additional design services are deemed necessary at a later date.

- Design of this project, including required easement acquisition, is anticipated to take 12 months to complete. Construction is anticipated to begin as early as October 2020 and to be completed by October 2021.
- CIP Project CO1633 has been established as a new “combined infrastructure” capital project which includes previously planned SH 5 utility relocations under projects WA1633 and WW1634 (FY20-24 Capital Improvement Plan). The benefit of single capital project includes streamlined project accounting throughout the life of the project.

FINANCIAL SUMMARY:

- The Resolution authorizes a professional services contract with Kimley-Horn and Associates, Inc. for an amount not to exceed \$1,830,000.
- Remaining funding necessary to construct the project will be included in the proposed FY20 capital project budget for CIP project CO1633.
- With approval of this item, \$6,970,000 will remain in CO1633.

BOARD OR COMMISSION RECOMMENDATION:

- N/A

SUPPORTING MATERIALS:

[Resolution](#)

[Location Map](#)

[Presentation](#)