CITY OF McKINNEY, TEXAS

Legislation Details (With Text)

File #:	21-0422	**Name:**	CO2134 Design Contract
Type:	Resolution	**Status:**	Approved
		In control:	City Council Regular Meeting
On agenda:	5/18/2021	**Final action:**	5/18/2021
Title:	Consider/Discuss/Act on a Resolution Authorizing the City Manager to Execute a Contract with Freese and Nichols, Inc. for Professional Engineering Design Services for the Lela, Jones, Foote, and Bradley Street Infrastructure Improvements Project (CO2134) and Authorizing Any Necessary Supplemental Agreements		
Indexes:			
Attachments:	1. Resolution, 2. Location Map		

Date	Ver.	Action By	Action	Result
5/18/2021	1	City Council Regular Meeting	Approved	Pass

Consider/Discuss/Act on a Resolution Authorizing the City Manager to Execute a Contract with Freese and Nichols, Inc. for Professional Engineering Design Services for the Lela, Jones, Foote, and Bradley Street Infrastructure Improvements Project (CO2134) and Authorizing Any Necessary Supplemental Agreements

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

MEETING DATE: May 18, 2021

DEPARTMENT: Development Services / Engineering

CONTACT: Nick Ataie, PE, Engineering CIP Manager
Brook Retta, PE, CIP Engineer

RECOMMENDED CITY COUNCIL ACTION:

- Approval of Resolution.

ITEM SUMMARY:

- This Resolution authorizes the City Manager to execute a contract in the amount of $478,076, as well as all required supplemental agreements thereto, with Freese and Nichols, Inc. for professional consulting engineering services for the Lela, Jones, Foote, and Bradley Street Infrastructure Improvements Project (CO2134), for a total aggregate contract amount, inclusive of any supplemental agreements, not to exceed $550,000.

BACKGROUND INFORMATION:

- The Capital Improvement Plan includes annual funding for street infrastructure improvements primarily focused on the reconstruction of substandard residential streets in East McKinney

including associated underground infrastructure improvements (drainage, water mains, and wastewater mains)

- The Engineering Department has worked with the Public Works Department to identify and prioritize potential projects in this category based on the following general criteria:
    - Existing substandard pavement width (not classified as an alley).
    - Lacking curb and gutter and/or enclosed storm drainage system(s).
    - Existing substandard underground infrastructure.
- Identified future projects have been assigned a composite score based on the following site-specific data:
    - Pavement Condition Index (PCI) as evaluated by the Public Works Department which assigns a score from 0 to 100 (lower score represents worse pavement condition) based on several factors which determine the structural integrity of existing street pavement.
    - Density of existing residential structures with frontage to the street.
    - Condition and risk ratings of existing underground city utilities including water mains and wastewater mains.
- Based on composite scores and adjacency to surrounding streets, the following residential streets have been identified to be included in the project:
    - Lela Street (Waddill Street to College Street)
    - Jones Street (College Street to Board Street)
    - Bradley Street (Bonner Street to Hall Street)
    - Foote Street (College Street to Board Street)
- Lela Street, Jones Street, and Bradley Street (for the limits shown above) currently have asphalt pavement condition (PCI) scores under 20, have existing pavement width between 18 and 20 feet, and have elevated city utility risk scores due to age.
- Foote Street (College Street to Board Street) is an asphalt roadway with concrete curb and gutter and a substandard underground storm drainage system (low point crossing at 602/603 W Foote Street). The City has reported multiple flooding complaints from the residents at 603 W Foote Street and is also currently under contract with a Professional Engineering Design Consultant to perform Drainage Study on Finch Creek from Foote Street draining south.
- Ancillary utility improvement to be included in this project have also been identified along Byrne Street (Hall Street to Bonner Street), College Street (Lela Street to South of Bonner Street), Sherman Street (Jones Street to the South), and Florence Street (Hall Street to Tucker Street).
- The proposed improvements to Lela, Jones, Foote, and Bradley streets are planned to include the following:
    - Construction of a new asphalt or concrete roadway with curb and gutter with a width between 22-feet and 26-feet depending on available existing right-of-way and opportunities for the City to acquire additional right-of-way.

  - Construction of a minimum 4-foot wide sidewalk along one side of each roadway.
  - Construction of an enclosed storm drainage system.
  - Improvements or replacements of existing water and wastewater mains.

- The proposed improvements to Byrne, College, Sherman, and Florence Streets are planned to include the following:
  - Replacement of existing wastewater main and resurfacing of College Street as asphalt pavement with concrete curb and gutter matching existing section from Lela Street to south of Bonner Street.
  - Replacement of existing wastewater main along Byrne Street from Hall Street to Bonner Street.
  - Replacement of existing wastewater main along Sherman Street from Jones Street approximately 200 Linear Feet to the south.
  - Replacement of existing water main along Florence Street from Hall Street to Tucker Street.
- Freese and Nichols, Inc. submitted a response to 18-45RFQ for On-call Roadway Design Services and 18-46RFQ for On-call Utility Design Services. The City pre-qualified Freese and Nichols, Inc. (City Council Item October 2, 2018) for on-call services for both RFQ's.
- Freese and Nichols, Inc. submitted a proposal for this project in the amount of $478,076 including engineering and design services, and bid phase services (basic services) as well as construction administration, surveying, franchise utility coordination, subsurface utility engineering, right-of-way documentation, geotechnical investigation, public involvement, and environmental investigations (special services).
- The preliminary opinion of probable construction cost is $3,200,000.
- The fee for basic services is $276,785 (8.65% of the construction cost) and the fee for special services is $220,501 (6.29% of the construction cost). Special services include various tasks with unconfirmed effort and will only be billed based on actual effort or need.
- Pending approval of this item, design would begin in early July 2021 with construction expected to begin as soon as August 2022.

FINANCIAL SUMMARY:

- This Resolution authorizes a design contract and any necessary supplemental agreements with Freese and Nichols, Inc. for an amount not to exceed $550,000.
- With the approval of this item, $2,200,000 will remain in project CO2134.
- Additional funding necessary for the construction of these improvements will be included in the upcoming FY22 Capital Improvement Program Budget.

BOARD OR COMMISSION RECOMMENDATION:

- N/A