



## CITY OF NORMAN, OK STAFF REPORT

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**MEETING DATE:** 6/27/2023

**REQUESTER:** Jason Murphy, Stormwater Program Manager

**PRESENTER:** Shawn O'Leary, Public Works Director

**ITEM TITLE:** CONSIDERATION OF APPROVAL, REJECTION, AMENDMENT, AND/OR POSTPONEMENT OF CONTRACT K-2223-173: BY AND BETWEEN THE CITY OF NORMAN, OKLAHOMA, AND CRAFTON TULL IN THE AMOUNT OF \$271,481.80 FOR THE DESIGN OF THE FINDLAY AVENUE AND BARTON STREET STORM SEWER REPLACEMENT PROJECTS.

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### **BACKGROUND:**

The City of Norman's Stormwater Division is responsible for the maintenance of a vast network of stormwater inlets, flumes, vegetated channels, and storm sewer lines. Many of the City's storm sewer lines are constructed of corrugated metal and are subject to corrosion over time. In some cases, when the corrosion is severe, sink holes and/or potholes can be seen at the surface. Staff has responded to reports of potholes and sink holes on Findlay Avenue and on Barton Street several times. Five street surface repairs have been made along Findlay Avenue in the last two years by the Streets Department. The Stormwater Division camera truck was mobilized to inspect the storm sewer lines at each location. The video recordings revealed severe section loss in both lines and it was determined that the section loss was the cause of the surface issues. The findings indicated that a full-scale line replacement would be necessary at both the Findlay Avenue (central Norman) and Barton Street (southwest Norman) locations.

Findlay Avenue is likely going to require a full replacement of the sixty-inch (60") corrugated metal pipe from Robinson Avenue to Acres Street. This road services schools and is a major entryway into the City's new Adult Wellness and Education Center and to the Norman Regional Hospital complex for staff, citizens and emergency vehicles. There are potential serious conflicts with multiple utilities for this line replacement as well. In addition to the holes in the pipe causing potholes in the road, the pipe structure has begun to weaken and led to a deformation of the pipe itself that is also affecting the roadway. While it is not believed by engineering staff or the consultant that an immediate threat to failure exists, the conditions are present for that to change quickly. Staff will camera the line at least once every six months to monitor any further degradation of the line.

The pipe section on Barton Street is structurally in even worse condition than Findlay. Thankfully, it is not supporting traffic but it is creating sinkholes in adjacent properties. There is imminent

risk of pipe collapse, as illustrated in the attached images. Failure of this line would have serious consequences since it is the main stormwater drainage outfall to the Canadian River.

The Barton Street project was packaged with Findlay Avenue for design purposes due to the severity of damage, but the overall size of the project. The replacement for this project is considered too large for City staff but is just small enough to have problems garnering interest from contractors. Packaging this project with Findlay helps ensure that project can be completed before it fails completely and for a lower unit price than if the project was bid independently.

The overall design cost for these 2 projects is \$271,481.80. Construction costs are currently estimated to be a little under \$2 million, but staff believes that realistically we could see that cost be closer to \$3 million once the design is completed. The Stormwater Division has requested \$900,000 for the FYE24 fiscal year with the expectation that it will likely take two or more years of similar funding availability to complete these projects. There is a significant chance that these projects will reach emergency failure status prior to funding becoming available for construction at that rate, which would necessitate the identification of additional funding sources.

## **DISCUSSION:**

This proposed agenda item is to award the contract for design of the Findlay Avenue and Barton Street Storm Sewer Replacement to Crafton Tull & Associates, Inc. Maps of the locations are attached.

On February 3, 2023, City staff advertised Request for Proposal RFP 2223-42 to solicit Consulting Engineering Services for the reconstruction design of the storm sewer lines in the vicinity of both Findlay Avenue and Barton Street. Four (4) proposals were received by the 4:00 pm deadline on March 17, 2023. The selection committee consisting of three (3) City staff (Michelle Chao – Stormwater Program Specialist, Jeff Fordice – Capital Projects Engineer, and Brandon Brooks – Staff Engineer) and two (2) citizens (Mike Zorba and Tyler McManaman) shortlisted two (2) consultant teams for interviews held April 6, 2023. Following the interviews, the consultant team selected was Crafton Tull & Associates, Inc.

Crafton Tull & Associates, Inc., is prepared to begin work immediately on this project after the Notice to Proceed is issued.

Crafton Tull & Associates, Inc. Scope of Services includes:

- Subsurface Utility Engineering
- Hydraulic and Hydrologic Analysis
- Geotechnical Investigations and Design
- Design Plan submittals at 30%, 90%, and Final Plan stages
- Bidding Documents
- Construction support and record drawings

The fee for this project is \$271,481.80 with an estimated completion in November 2023. The fee is 11% of the estimated construction cost. Industry standard for construction design is 10% to 15% of the estimated total cost of construction. This contract is proposed to be funded

from the Findlay Avenue Project, Design (Org 50599968; Object 46201; Project DR0027) and the Barton Street Project, Design (Account Org 50599968; Object 46201; Project DR0028).

The contract, which includes a detailed scope, schedule, and fees is attached.

Construction can commence upon completion of the designs, however funds for construction have not been fully secured.

**RECOMMENDATION:**

Staff recommends approval of Contract K-2223-173, between the City of Norman and Craton Tull & Associates, Inc., for the design of the Findlay Avenue and Barton Street Storm Sewer Replacement Project.