



## CITY OF NORMAN, OK STAFF REPORT

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**MEETING DATE:** 2/8/2022

**REQUESTER:** Rachel Croft, Staff Engineer

**PRESENTER:** Rachel Croft, Staff Engineer

**ITEM TITLE:** CONSIDERATION OF APPROVAL, REJECTION, AMENDMENT, AND/OR POSTPONEMENT OF CHANGE ORDER NO. ONE TO CONTRACT K-2122-24: BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY AND SOUTHWEST WATER WORKS, L.L.C., INCREASING THE CONTRACT AMOUNT BY \$470,794 FOR A REVISED CONTRACT AMOUNT OF \$3,325,518.50 AND ADDING 75 CALENDAR DAYS TO THE CONTRACT FOR THE FLOOD AVENUE WATER LINE REPLACEMENT PROJECT.

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### **BACKGROUND:**

This project will replace approximately 12,800 feet of 16-inch water line from Robinson Street to Tecumseh Road, and about 2,900 feet of 12-inch from Tecumseh to Franklin Road with 12, 8, and 6-inch C900 PVC pipe. The existing ductile iron pipe is not compatible with the corrosive clay soils. It is failing, causing service disruptions to customers and damage to driveways, streets, and yards.

On March 20, 2019, the Norman Utilities Authority (NUA) approved Contract K-1819-73 with Chiang, Patel, & Yerby, Inc. (CP&Y) in the amount of \$311,000, to provide surveying, design, and construction services for the waterline along Flood Avenue between Robinson Street and Tecumseh Road, along with the section of waterline from Tecumseh Road to Venture Drive.

Most recent modeling, based on future 2025 max day scenario and provided by Plummer, indicated that the 16-inch line between Robinson and Tecumseh could be downsized to a 12-inch with negligible impacts to flow and pressure in the distribution system. Additionally, based on detailed field survey, the alignment appears to require the removal of the existing 16-inch line and installation of the new line in the same corridor. Water model simulations have indicated that this will not impact service levels, but this work is going to be scheduled during the non-demand seasons to reduce the impacts of this outage.

In addition, approximately 983 feet of 8-inch waterline along Goddard Avenue was added to this project, originally designed as part of project SA0021 – New Sanitation Facility. The building for this project is still in the design phase but the design for the waterline servicing this new facility has been finalized by Garver Engineering, LLC. This new line was incorporated into this project

in order to maintain water service to the North Base Complex while contractors remove and replace the existing 16-inch line along Flood Avenue currently serving the North Base Complex.

On September 14, 2021, the NUA awarded Contract K-2122-24 to Southwest Waterworks, LLC in the amount of \$2,854,724.50. This project is currently under construction.

Additionally, the Public Works Department has a project proposed to extend James Garner Avenue from the Central Library north across W Robinson Street parallel to the railroad right-of-way and then create an intersection with N Flood Avenue. The Public Works project is currently slated to receive funding from outside sources and requires that utility work be completed prior to the roadway project being bid. Garver Engineering, Inc. is the engineer for the project and was also authorized under their on-call contract K-1920-59 by PO 22003737 to design the replacement of the existing 16-inch water line in this corridor.

### **DISCUSSION:**

Change Order No. 1 is proposed to allow the contractor to replace the existing 16-inch water line south of W Robinson Street along the proposed James Garner Avenue extension between W Hayes Street and the new Central Library pursuant to the plans prepared by Garver Engineering. The existing 16-inch water line is ductile iron that would be under the proposed pavement if not replaced or relocated. The existing 16-inch ductile iron waterline is of similar age to the pipe north of Robinson Street that has exhibited a history of frequent main breaks. Additionally, the proposed James Garner Extension will include grade modifications that could accelerate failure of the 16-inch line.

Therefore, replacement of the existing 16-inch line under Contract K-2122-24 will be in the best interest of the NUA and the City by replacing this line ahead of the Public Works project. The majority of the work will be done using existing bid prices. New items of work will be added to allow for the work to be completed. An additional 75 days will be added to the project for this work since their crews will be diverted to this for timely completion ahead of the James Garner extension project.

Funding for this additional work will be from the Flood WL Replacement Account - WA0328-CONST (31993360-46101). This account has an available balance of \$1,500,399.12.

### **RECOMMENDATION:**

Staff recommends the NUA approve Change Order No. 1 with Southwest Waterworks, LLC increasing the contract amount by \$470,794.00 for a revised contract amount of \$3,325,518.50 for Project WA0328 – Flood Waterline Replacement.