



City of Norman, OK

Municipal Building
Council Chambers
201 West Gray
Norman, OK 73069

Master

File Number: K-1516-86 CO1

File ID: K-1516-86 CO1

Type: Contract

Status: Consent Item

Version: 1

Reference: Item 21

In Control: City Council

Department: Utilities Department

Cost: \$92,290.00

File Created: 10/20/2016

File Name: Change Order No. 1-Woodcrest Interceptor

Final Action:

Title: CHANGE ORDER NO. ONE TO CONTRACT K-1516-86: BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY AND JORDAN CONTRACTORS, INC. INCREASING THE CONTRACT AMOUNT BY \$92,290 FOR A REVISED CONTRACT AMOUNT OF \$1,818,040 AND EXTENDING THE CONTRACT BY 20 CALENDAR DAYS FOR THE WOODCREST INTERCEPTOR PROJECT.

Notes: ACTION NEEDED: Acting as the Norman Utilities Authority, motion to approve or reject Change Order No. One to Contract K-1516-86 with Jordan Contractors, Inc., increasing the contract amount by \$92,290 for a revised contract amount of \$1,818,048 and extending the contract by 20 calendar days; and if approved, authorize the execution thereof.

ACTION TAKEN: _____

Agenda Date: 11/08/2016

Agenda Number: 21

Attachments: Text File Jordan, Location map, Change Order One to K-1516-86

Project Manager: Charlie Thomas, Capital Projects Engineer

Entered by: charlie.thomas@normanok.gov

Effective Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:

Text of Legislative File K-1516-86 CO1

Body

BACKGROUND: The Woodcrest Interceptor improvements were recommended by the Wastewater Master Plan (WWMP), adopted by the Norman Utilities Authority (NUA) in November 2001. The WWMP proposed the enlargement of interceptors to meet obligated and future capacity demands.

The Woodcrest Interceptor Project will replace and upsize the existing interceptor. It is located in north central Norman and runs from near Lift Station D south across Tecumseh Road, then SW to near Porter Avenue and Rock Creek Road (map attached). It consists of approximately 9,350 linear feet (LF) of new 24-inch and 15-inch sanitary sewer line.

On March 8, 2016, the Norman Utilities Authority (NUA) approved Contract K-1516-86 with Jordan Contractors, Inc. of Tecumseh in the amount of \$1,725,750 to perform the work. Construction began April 4, 2016, and is on schedule and within budget.

DESCRIPTION: As with any project of this scope, field adjustments and modifications are necessary. Several contract modifications, detailed below, are required in proposed Change Order No. 1 (CO1).

To facilitate protection of numerous trees, and sustain the nature of the neighborhood, about eight (8) manholes should be rehabilitated in place, rather than removed and replaced. Jordan proposes, and staff recommends approval of \$3,214 per manhole rehabilitation, for a total of \$25,712 additional. Removal of existing manholes at \$500 each, and furnishing of new replacement manholes at \$3,000 each, work anticipated by the original project as bid will not be required, for a potential savings of up to \$28,000. Therefore, the financial impact of this proposed change order will be partially mitigated. The latter adjustments will be made by reconciliation of as-bid quantities to as-built quantities on the final project change order at project acceptance.

The project design and original bid did not anticipate individual service connections, since the sewer is an interceptor line and taps onto an interceptor are rare. However, we identified five (5) single and two (2) double taps which are required to be reinstalled along the new sixteen-inch (16") High-Density Polyethylene (HDPE) pipe. Jordan proposes, and staff recommends approval of varying prices, as shown in the attached proposed CO1. The total added cost for services taps is \$10,760.

During construction staff discovered that the existing interceptor is installed inside steel casing across Porter Avenue. Staff requested Jordan to provide personnel and equipment to excavate the area and assist in determination of the location, size and material of the existing casing. The investigation determined that 18" diameter, concrete embedded, steel casing underlay portions of the paved surface of Porter Avenue. For assistance with the investigation, Jordan proposes, and staff recommends approval of \$4,570.

The steel casing across Porter Avenue requires the proposed, upsized interceptor to be relocated by directional drilling. Jordan proposes, and staff recommends approval of \$272/LF X 164 LF = \$44,608 for the work. Again, several bid items, anticipated by the original project bid, will not be used, for a potential savings of about \$27,320, thus partially mitigating the financial impact of CO1. As explained above, adjustments will be made by reconciliation at project acceptance.

The directional drilling requires relocation of an existing manhole. In turn, relocation of the manhole requires an extension of an existing eight-inch (8") residential sewer to the new manhole location. The bid prices did not anticipate 8" sewer, so Jordan proposes, and staff recommends approval of \$80/LF X 62 LF = \$4,960 for the line extension.

Finally, due to extreme, unanticipated ground water conditions, the engineer and staff requested that Jordan furnish and install large surge rock, 3" to 4" in size, to stabilize the excavated trench. Jordan also provided both dewatering equipment and extra shoring before laying the new sewer line on grade. Jordan proposes, and staff recommends approval of \$48/Ton X 35 tons = \$1,680 for the rock.

Staff has independently verified and/or vetted all proposed CO1 prices via vendors or others. The negotiated prices are fair, reasonable and appropriate for the work requested. The cost increase for this work is about 5% of the contract amount, well within the 10% change order cap under the Oklahoma Competitive Bidding Act. Staff recommends approval for the additional work.

The proposed, cumulative time increase of twenty (20) days for CO1 includes both extra time for the directional drilling, and a few days of delay awaiting City decisions and direction. In summary, proposed CO1 will increase the contract amount by \$92,290 from \$1,725,750 to \$1,818,040, and extend the contract completion date by 20 calendar days from April 29, 2017 to May 19, 2017. Approximately \$172,574 is available in the Wastewater Excise Tax Fund, Woodcrest Interceptor Project, Construction (account 322-9048-432.61-01; project WW0120), which is sufficient to fund the change order.

RECOMMENDATION: Recommend the NUA approve Change Order No. 1 with Jordan Contractors, Inc. increasing the contract amount by \$92,290 to \$1,818,040 and extending the contract time by 20 days for the Woodcrest Interceptor Project.