



CITY OF NORMAN, OK STAFF REPORT

MEETING DATE: 04/09/2024

REQUESTER: Peter Wolbach

PRESENTER: Peter Wolbach, Staff Engineer - Utilities

ITEM TITLE: CONSIDERATION OF APPROVAL, ACCEPTANCE, REJECTION, AMENDMENT AND/OR POSTPONEMENT OF CONTRACT K-2324-168: A CONTRACT BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY AND DUKE'S ROOT CONTROL, INC., IN THE AMOUNT OF \$118,794.72 TO PROVIDE PROFESSIONAL SERVICES FOR THE ASHTON GROVE LIFT STATION BASIN LINE STUDY (WW0341) AND BUDGET TRANSFER.

BACKGROUND:

The City of Norman wastewater system consists of gravity mains, manholes, lift stations and force mains that convey wastewater flows from customers to the Water Reclamation Facility. The systems are designed to minimize stormwater and groundwater, commonly referred to as inflow and infiltration (I&I), from entering the system. I&I will occur at some level within any wastewater system but increased levels can result in increased costs for pumping and treatment, can cause potential pipe failures or sinkholes, and can overwhelm the system resulting in sanitary sewer overflows.

The Ashton Grove Lift Station has seen increased pumping levels during rain events indicative of inflow into the system. To better assess this area, flow meters were installed within the basin which confirmed that there are inflow sources within the basin, specifically flowing from the south. This area contains mains composed of vitrified clay pipe (VCP) and brick manholes in need of future rehabilitation through a future Sewer Maintenance project(s). However, inflow that is occurring is not always addressed through sewer line and/or manhole rehabilitation and often requires further investigation to identify inflow sources.

For this project, approximately 43,000 linear feet of pipe and 205 manholes will be assessed in the Ashton Grove area. This information will be used as a planning tool to determine when, where, and how rehabilitation and maintenance should be performed and might provide information on immediate measures that can be taken to address inflow prior to future rehabilitation or replacement.

DISCUSSION:

Duke's Root Control, Inc., (Duke's) provided a proposal to complete the assessment of the basin as a professional service while also being compliant with competitive bidding requirements (Buyboard numbers 730-23 and 731-24).

The contract provides for Duke's to perform sanitary sewer investigation services consisting of:

1. iTracking - microdetection I&I meter;
2. SL RAT - acoustic pipeline inspection;
3. Rinno Camera - digital 360 manhole inspections;
4. Installation, Data Pull & Retrieval of iTracker microdetection meters; and
5. Smoke testing of manholes (if authorized as an additional service).

From this work, Duke's will provide the following deliverables:

1. Detailed Summary Report and Evaluation of Study Area;
2. MACP deliverables (manhole inspections);
3. Acoustic inspection results report and dashboard;
4. iTracker microdetection study documentation;
5. Executive and drill down dashboards;
6. Study report and summary presentation;
7. GDB / GIS shape files with all deliverables;
8. Deliverables review meeting; and
9. Smoke testing report (if authorized as an additional service).

The total fee for this work is \$118,794.72 and this will be funded from the Sewer Maintenance Fund (Fund 321). To fund this work, a budget transfer of \$150,000 is proposed as follows:

1. From – Brookhaven Creek Interceptor Replacement construction account (321990048-46101 / Project WW0328) – current available balance of \$390,000.
2. Into – Ashton Grove Sanitary Sewer Assessment design account (32193338-46201 / Project WW0341).

Work on this project will begin in April with equipment deployed in May. Work is estimated to be finished in August 2024.

RECOMMENDATION 1:

Staff recommends that NUA approve Contract K-2324-168 between NUA and Duke's in the amount of \$118,794.72 for professional services for the Ashton Grove Lift Station Basin Line Study (WW0341).

RECOMMENDATION 2:

Staff recommends that NUA approve Budget Transfer of \$150,000 from Brookhaven Creek Interceptor Replacement construction account (321990048-46101 / Project WW0328) into

Ashton Grove Sanitary Sewer Assessment design account (32193338-46201 / Project WW0341).