



# City of Kansas City, Missouri

## Docket Memo

Ordinance/Resolution #: 240074

Submitted Department/Preparer: Water

Revised 11/01/23

Docket memos are required on all ordinances initiated by a Department Director. More information can be found in [Administrative Regulation \(AR\) 4-1](#).

### Executive Summary

Authorizing a \$2,561,500.00 Professional, Specialized, or Technical Services contract with D3 Water, LLC, for the Sensor Network and Watershed Digital Twin project; and providing for five successive renewal options subject to City Council approval; and recognizing this ordinance as having an accelerated effective date.

### Discussion

#### Reason for Contract

In 2010, the City of Kansas City, Missouri entered into a Consent Decree with the United States Environmental Protection Agency (EPA) to reduce wet-weather sewer overflows from the City's combined and separate sewer systems. This project is being undertaken to continue operating, maintaining, and expanding KC Water's existing sewer system Sensor Network data collection and delivery for multiple uses. System operational data will be used to perform data analytics in support of various sewer utility management functions including wastewater collection system preventative maintenance, wastewater treatment operations, Smart Sewer Program system planning and sewer system performance flow monitoring, green infrastructure performance monitoring, and Consent Decree compliance reporting. Data will also be used to develop and maintain watershed digital twins for each of the City's 13 watersheds to support the development of strategies for evolving data-driven system engineering, data dashboards and operational decision support systems.

#### Contract Description

The scope of work to be provided under this contract includes operating, maintaining, and expanding an existing sewer system flow and/or depth sensor network with up to 300 sensor locations, including site investigations, sensor repair or replacement and new sensor device installations; collecting and storing data with City access to real-time data via an online viewing platform; performing remote sensor monitoring and interrogation of real-time data for proper operation and timely detection of data loss or inaccuracies to trigger field services necessary to maintain consistent, reliable, quality data collection; development and maintenance of a digital twin for each of the City's 13 watersheds; training for online data access and sensor equipment maintenance. The

negotiated amount of the proposed Professional, Specialized, or Technical Services contract is \$2,561,500.00.

The term of this project will be 365 calendar days.

#### Solicitation

The Sensor Network and Watershed Digital Twin project was advertised in accordance with the City's requirements on August 16, 2023, and proposals were received on September 12, 2023, with two (2) proposers responding.

#### MBE/WBE Goals

CREO KC established goals of 11% MBE and 11% WBE on this project on June 20, 2023 as part of the CREO KC Annual Goal Program.

#### Awardee/Subcontracting Participation

D3 Water, LLC submitted the lowest, responsible, and responsive proposal of \$1,888,855.00, with subcontracting participation of 11% MBE and 11% WBE.

#### Other Proposers/Subcontracting Participation

ADS LLC was the other proposer for this project. They submitted a proposal in the amount of \$2,780,448.00, with subcontracting participation of 0% MBE and 0% WBE (CUP docs were not received with Proposal).

## Fiscal Impact

1. Is this legislation included in the adopted budget?  Yes  No
2. What is the funding source?  
24-8110-807769-611040-60810123 = \$2,561,500.00 Overflow Control Program Sewer Fund
3. How does the legislation affect the current fiscal year?  
Work on this project will begin in the current fiscal year and extend into FY25. Invoices will be submitted by the Contractor on a monthly basis.
4. Does the legislation have a fiscal impact in future fiscal years? Please notate the difference between one-time and recurring costs.  
Funds encumbered in the current fiscal year will be disbursed over subsequent fiscal years as construction proceeds. Work on the project is anticipated to be complete within 365 calendar days from when work begins.
5. Does the legislation generate revenue, leverage outside funding, or deliver a return on investment?  
No

**Office of Management and Budget Review**  
(OMB Staff will complete this section.)

1. This legislation is supported by the general fund.  Yes  No
2. This fund has a structural imbalance.  Yes  No
3. Account string has been verified/confirmed.  Yes  No

**Additional Discussion (if needed)**

Click or tap here to enter text.

## Citywide Business Plan (CWBP) Impact

1. View the [FY23 Citywide Business Plan](#)
2. Which CWBP goal is most impacted by this legislation?  
Infrastructure and Accessibility (Press tab after selecting.)
3. Which objectives are impacted by this legislation (select all that apply):
  - Engage in thoughtful planning and redesign of existing road networks to ensure safety, access, and mobility of users of all ages and abilities.
  - Enhance the City's connectivity, resiliency, and equity through a better-connected multi-modal transportation system for all users.
  - Build on existing strengths while developing a comprehensive transportation plan for the future.
  - Develop environmentally sustainable infrastructure strategies that improve quality of life and foster economic growth.
  - Ensure adequate resources are provided for continued maintenance of existing infrastructure.
  - Focus on delivery of safe connections to schools.

## Prior Legislation

N/A, no prior

## Service Level Impacts

This project will support KC Water's expanded use of collected data to enhance sewer collection system preventative maintenance, wastewater treatment operations,

collection system hydraulic modeling under the Smart Sewer Program and optimization of wet-weather overflow control measures.

## Other Impacts

1. What will be the potential health impacts to any affected groups?  
None
2. How have those groups been engaged and involved in the development of this ordinance?  
N/A
3. How does this legislation contribute to a sustainable Kansas City?  
This project helps promote environmental quality, social equity, and economic vitality.
4. Does this legislation create or preserve new housing units?  
No (Press tab after selecting)

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5. Department staff certifies the submission of any application Affirmative Action Plans or Certificates of Compliance, Contractor Utilization Plans (CUPs), and Letters of Intent to Subcontract (LOIs) to CREO prior to, or simultaneously with, the legislation entry request in Legistar.

Yes - I have submitted documents for CREO Review (Press tab after selecting)  
Please attach or copy and paste CREO's review.

The Contractor Utilization Plan was submitted to CREO KC for review on January 9, 2024, and was approved January 11, 2024.

6. Does this legislation seek to approve a contract resulting from an Invitation for Bid?  
  
No(Press tab after selecting)

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7. Does this legislation seek to approve a contract resulting from a Request for Proposal/Qualification (RFP/Q)?  
Yes(Press tab after selecting)