



Office of the City Manager

CONSENT CALENDAR
February 27, 2024

To: Honorable Mayor and Members of the City Council
From: Dee Williams-Ridley, City Manager
Submitted by: Andrew Murray, Interim Director of Public Works
Subject: Contract (Specification. No. 24-11645-C): Koios Engineering, Inc. for Urgent Sewer Repair FY2024 Project

RECOMMENDATION

Adopt a Resolution:

- Approving plans and specifications for the Urgent Sewer Repair FY2024 Project;
- Accepting the bid of the lowest responsive and responsible bidder, Koios Engineering, Inc.; and
- Authorizing the City Manager to execute a contract and any amendments, extensions, or other change orders until completion of the project in accordance with the approved plans and specifications, in an amount not to exceed \$465,187, which includes a 10% contingency of \$42,289.

FISCAL IMPACTS OF RECOMMENDATION

Funding is available in the FY 2024 Sanitary Sewer Fund.

Low bid by Koios Engineering, Inc.....	\$422,898
10% Contingency	\$42,289
Total construction cost	\$465,187

CURRENT SITUATION AND ITS EFFECTS

This sanitary sewer project is part of the City's ongoing program to rehabilitate or replace its aging sanitary sewer system and eliminate potential health hazards to the public. The project is located throughout the City as shown on the Location Map (Attachment 2). These sanitary sewer collection facilities need immediate rehabilitation to prevent pipe failures, sewer blockages, and leakage problems. Field investigations using a closed-circuit television camera revealed deteriorated piping and pipe defects in the existing sanitary sewer mains. These conditions are similar to problems previously found in other sanitary sewer mains before their replacement.

Planned work entails point (spot) repair of 6-inch, 8-inch, 16-inch diameter sanitary sewer pipe at twenty-four locations; rehabilitation of approximately 275 linear feet of

sewer mains; rehabilitation of two maintenance holes; and any related work. These repairs will correct existing acute defects including imminent structural failures identified during the FY2023 sewer main inspection and condition assessment program. The planned scope of work also includes provision for emergency/urgent work related to acute sewer system defects at other locations that may arise during FY 2024. As required by the Environmental Protection Agency (EPA) and California Regional Water Quality Control Board (RWQCB) Consent Decree, such acute defects must be addressed within one year of being identified. The contract's ninety-five working day term includes a fifty working day construction period, and an additional forty-five working days for project closeout. A 10% contingency is included for related construction events.

An Invitation for Bids (Specification. No. 24-11645-C) was released on December 6, 2023, and bids were opened on December 21, 2023. Thirteen non-local bids were received, ranging from a minimum of \$422,898 to a maximum of \$1,234,363, as detailed in Attachment 3 (Bid Results). The Engineer's estimate for the project was \$600,000. Upon review of the bid results, two bids were found to have arithmetic errors. Corrections to the two bids did not affect the lowest responsive and responsible bidder. Koios Engineering, Inc., headquartered in San Francisco, California, was the lowest responsive and responsible bidder with a bid of \$422,898, and their references were satisfactory.

This sanitary sewer project supports the City's Strategic Plan goals of providing state-of-the-art, well-maintained infrastructure amenities and the goal of protecting the environment.

BACKGROUND

To remain compliant with the National Pollution Discharge Elimination System Permit (NPDES) and California Regional Water Quality Control Board (RWQCB) Consent Decree issued September 22, 2014, the City has implemented a long-term mandated Sanitary Sewer Capital Improvement Program to eliminate sanitary sewer overflows (SSOs) and to reduce storm water infiltration and inflow into the sanitary sewer system. Under this program, the City utilizes a comprehensive asset management approach based on complex and evolving hydrologic and hydraulic modeling and condition assessments to repair, replace, or upgrade the City's portion of the sanitary sewer system. Ultimately, these actions will assist East Bay Municipal Utility District (EBMUD) in eliminating discharges from their wet weather facilities by the end of 2035.

This is the tenth year of the twenty-two-year Consent Decree program, which stipulates that the City shall perform collection system repair and rehabilitation to control infiltration and inflow at an average annual rate of no less than 22,120 feet of sanitary sewer mains on a three-fiscal-year rolling average. This supports ongoing work previously identified in the City's Sanitary Sewer Management Plan (SSMP) and Asset Management Implementation Plan (AMIP).

The City filed a Notice of Exemption declaring this work is exempt from the California Environmental Quality Act (CEQA). This notification was filed with Alameda County to fulfill the requirement for public notification. No comments, questions, or protests were received.

ENVIRONMENTAL SUSTAINABILITY AND CLIMATE IMPACTS

Improvements to the City's sanitary sewer system will help protect water quality by reducing the frequency of SSOs and infiltration and inflow into the City's sanitary sewer system that can negatively affect the San Francisco Bay.

RATIONALE FOR RECOMMENDATION

Contracted services are required for the specialized services required for this project, as the City lacks the in-house resources needed to complete scheduled sanitary sewer rehabilitation and replacement projects. Further, the City must take timely action to address urgent/emergent sewer repairs without delay. Finally, subject to fines and stipulated penalties, the Consent Decree requires the City to repair acute defects within one year of discovery, and complete sanitary sewer mains rehabilitation and replacement at an average annual rate of no less than 22,120 feet on a three-fiscal-year rolling average. The City will have a three-year yearly average of approximately 22,200 linear feet replaced or rehabilitated through 2023.

ALTERNATIVE ACTIONS CONSIDERED

No reasonable alternative exists as the City's sanitary sewer pipelines are in poor condition and need timely rehabilitation to prevent an increased probability of infiltration and inflows, sanitary sewer leakages, and backup problems in the sanitary sewer system.

CONTACT PERSON

Ronald A. Nevels, Manager of Engineering, Public Works, (510) 981-6439
Daniel Akagi, Supervising Civil Engineer, Public Works, (510) 981-6394
Jonathan Caudillo, Junior Public Works Engineer, Public Works, (510) 981-6427

Attachments:

- 1: Resolution
- 2: Location Map
- 3: Bid Results

RESOLUTION NO. ##,###-N.S.

CONTRACT: KOIOS ENGINEERING, INC. FOR URGENT SEWER REPAIR FY2024
PROJECT

WHEREAS, the Sanitary Sewer Project is part of the City's on-going Sanitary Sewer Capital Improvement Program to rehabilitate or replace the aging and deteriorated sanitary sewer system; and

WHEREAS, the Capital Improvement Program is a requirement of compliance with the National Pollution Discharge Elimination System Permit (NPDES) and California Regional Water Quality Control Board (RWQCB) Consent Decree; and

WHEREAS, the City has neither the staff nor the equipment necessary to undertake this Sanitary Sewer Rehabilitation Project and other urgent/emergent sewer repairs; and

WHEREAS, on December 6, 2023, the City released an Invitation for Bids (Specification No. 24-11645-C) for sanitary sewer rehabilitation and replacement; and

WHEREAS, on December 21, 2023, the City received thirteen bids, and Koios Engineering, Inc. was found to be the lowest responsive and responsible bidder; and

WHEREAS, the City filed a Notice of Exemption on May 18, 2023, declaring these urgent repairs are exempt from the California Environmental Quality Act (CEQA); and

WHEREAS, funds are available in the FY 2024 budget Sanitary Sewer Fund.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the Plans and result of Specification No. 24-11645-C for the Urgent Sewer Repair FY2024 Project are approved.

BE IT FURTHER RESOLVED that the Council of the City of Berkeley authorizes the City Manager to execute a contract and any amendments with Koios Engineering, Inc., until completion of the project in accordance with the approved plans and specifications for the Urgent Sewer Repair FY2024 Project in an amount not to exceed \$465,187, which includes a 10% contingency for unforeseen circumstances. A record signature copy of said agreement and any amendments will be on file in the Office of the City Clerk.

CITY OF BERKELEY, CALIFORNIA

SANITARY SEWER REHABILITATION

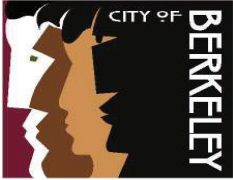
URGENT SEWER PROJECT FY 2024

SPECIFICATION NO. 24-11645-C



LEGEND

 POINT REPAIR LOCATION



ATTACHMENT 3

City of Berkeley Abstract of Bid Worksheet

Finance Department
General Services Division

24-11645-C

Bid Date: 12/21/2023

FOR: [Urgent Sewer Repair Project FY 2024](#)

required w/ bid

	Bidders	Base Bid	Bid Bond	Addendum (1)	Experience - Fin. Qual.	Taxpayer ID	Nuclear Free	Opp.States	Sanctuary City	EBO
1	Andes Construction Inc	\$ 655,334.00	X	X	X	X	X	X	X	X
2	APB ENGINEERING	\$ 497,856.00	X	X	X	X	X	X	X	X
3	CALIFORNIA TRENCHLESS	\$ 971,417.00	X	X	X	X	X	X	X	X
4	EXPRESS PLUMBING	\$ 565,136.00	X	X	X	X	X	X	X	X
5	GLOSAGE ENGINEERING	\$ 632,345.00	X	X	X	X	X	X	X	X
6	HARDIMAN CONSTRUCTION	\$ 544,612.00	X	X	X	X	X	X	X	X
7	JOHN BOYLAN ENGINEERING	\$ 599,185.60	X	X	X	X	X	X	X	X
8	JPB DESIGNS INC.	\$ 763,330.00	X	X	X	X	X	X	X	X
9	KOIOS ENGINEERING	\$ 422,898.00	X	X	X	X	X	X	X	X
10	KEREX ENGINEERING	\$ 804,724.00	X	X	X	X	X	X	X	X
11	BAY CONSTRUCTION	\$ 769,934.00	X	X	X	X	X	X	X	X
12	PIPE AND PLANT SOLUTIONS	\$ 1,234,363.00	X	X	X	X	X	X	X	X
13	SMELLY MEL'S PLUMBING	\$ 553,112.00	X	X	X	X	X	X	X	X

Bid Recorder:
Bid Opener:
Project Manager:

Roop Soorma
Josh Roben
Jonathan Caudillo

Roop Soorma

Jonathan Caudillo

Date Dec 29, 2023
Date Jan 2, 2024
Date Dec 28, 2023