

Office of the City Manager

CONSENT CALENDAR  
February 22, 2022

To: Honorable Mayor and Members of the City Council  
From: Dee Williams-Ridley, City Manager

Submitted by: Liam Garland, Director, Department of Public Works

Subject: Contract: Koios Engineering, Inc. for Urgent Sewer Repair FY2022 Project

RECOMMENDATION

Adopt a Resolution approving plans and specifications for the Urgent Sewer Repair FY2022 Project, located throughout the City of Berkeley; 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 \$391,872, which includes a 10% contingency of \$35,624.

FISCAL IMPACTS OF RECOMMENDATION

Funding is available in the FY 2022 Sanitary Sewer Fund 611-54-623-676-3013-000-473-665130-PWENSR2204.

Low bid by Koios Engineering, Inc.....	\$356,248
10% Contingency .....	\$35,624
<b>Total construction cost</b>	<b>\$391,872</b>

CURRENT SITUATION AND ITS EFFECTS

An Invitation for Bids (Specification. No. 22-11483-C) was released on December 22, 2021 and eight non-local bids were received, ranging from a low of \$356,248 to a high of \$581,367 (Attachment 3, Bid Results). The engineer's estimate for the project was \$420,000. Koios Engineering, Inc. of San Francisco, CA was the lowest responsive and responsible bidder with a bid of \$356,248. References for Koios Engineering, Inc. proved satisfactory, thus staff recommends award of the contract to Koios Engineering, Inc.

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 September 22, 2014 Consent Decree, 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 their goal of eliminating discharges from their wet weather facilities by the end of 2035.

This is the eighth 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.<sup>1</sup> This is in support of and in addition to ongoing work previously identified in the City's Sanitary Sewer Management Plan (SSMP) and Asset Management Implementation Plan (AMIP).

This sanitary sewer project is part of the City's ongoing program to rehabilitate or replace its aging sanitary sewer system, and to eliminate potential health hazards to the public. The project is located throughout the City as shown on the Location Map (Attachment 2). The sanitary sewer collection system in this area needs immediate rehabilitation to prevent pipe failures, sewer blockages, and leakage problems. Field investigations performed 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 prior to their replacement.

Planned work entails point (spot) repair of 6-inch, 8-inch, and 10-inch diameter sanitary sewer pipe at eighteen locations; rehabilitation of approximately 61 linear feet of sewer mains; rehabilitation of maintenance holes; construction of maintenance holes; and any related work. These repairs will correct existing acute defects including imminent structural failures identified during the FY2021 sewer main inspection and condition assessment program. The planned scope of work also includes provision for emergency/urgent work related to acute sewer system defect at other locations that may arise during FY 2022. As required by the EPA and regional Water Quality Control Board (RWQCB) Consent Decree, such acute defects must be addressed within one year of being identified. The contract's eighty-five working day term includes a forty working day construction period, and an additional forty-five working days for project

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<sup>1</sup> At an average annual rate of no less than 22,120 feet of sanitary sewer mains on a three-fiscal-year rolling average.

closeout. A 10% contingency is included for related construction events.

The Living Wage Ordinance does not apply to this project as Department of Public Works construction contracts are subject to State prevailing wage laws. Koios Engineering, Inc. has submitted a Certification of Compliance with the Equal Benefits Ordinance.

#### 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 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 as the Consent Decree demands 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 annual average of approximately 22,160 linear feet of replaced or rehabilitated sewer through the end of FY 2022 on June 30, 2022. Failure to meet consent decree requirements will subject the City to fines and stipulated penalties.

#### ALTERNATIVE ACTIONS CONSIDERED

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

#### CONTACT PERSON

Joe Enke, Manager of Engineering, Public Works, (510) 981-6411  
Daniel Akagi, Supervising Civil Engineer, Public Works, (510) 981-6394

Attachments:

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

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

CONTRACT: KOIOS ENGINEERING INC. FOR URGENT SEWER REPAIR  
FY2022 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 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 22, 2021 the City released an Invitation for Bids (Specification No. 22-11483-C) for sanitary sewer rehabilitation and replacement; and

WHEREAS, the City received eight bids, and Koios Engineering, Inc. was found to be the lowest responsive and responsible bidder; and

WHEREAS, funds are available in the FY 2022 budget Sanitary Sewer Fund 611; and

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the Plans and Specifications No. 22-11483-C for the Urgent Sewer Repair FY2022 Project are approved.

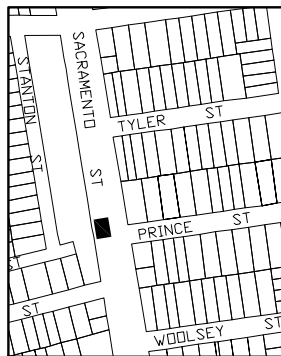
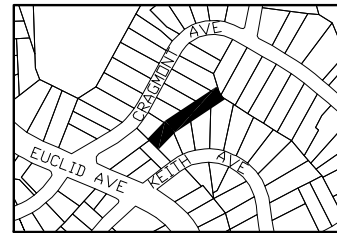
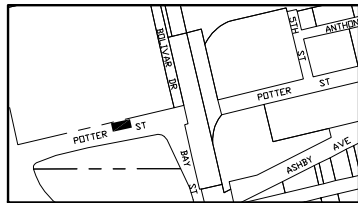
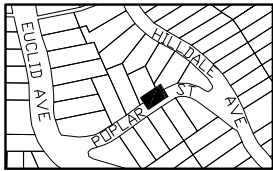
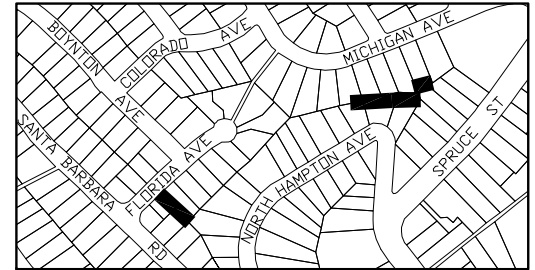
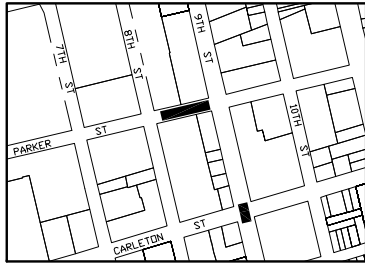
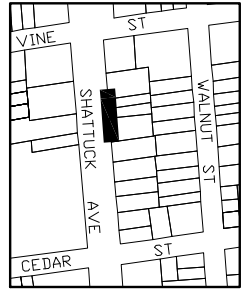
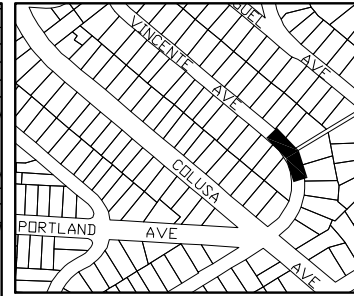
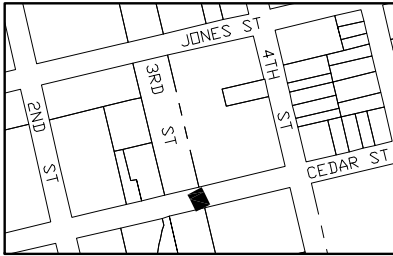
BE IT FURTHER RESOLVED that the Council of the City of Berkeley authorizes the City Manager to execute a contract and any amendments with Koios Engineering, Inc., until completion of the project in accordance with the approved plans and specifications for the Urgent Sewer Repair FY2022 Project located throughout the City, in an amount not to exceed \$391,872 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 REPAIR FY 2022

SPECIFICATION NO. 22-11483-C



LOCATION MAP

■ — CONSTRUCTION AREA

NOT TO SCALE



City of Berkeley  
Abstract of Bid Worksheet

Finance Department  
General Services Division

Spec. No.  
22-11483-C

Bid Date: 1/11/2022

FOR: FY 2022 Urgent Sewer Repair

required w/ bid

	Bidders	Base Bid	Bid Bond	Addendum (1)	Experience - Fin. Qual.	Taxpayer ID	Opp.States	Nuclear Free	EBO	Sanctuary City
1	Precision Engineering, Inc.	\$ 581,367.00	X	X	X	X	X	X	X	X
2	Glosage Engineering, Inc.	\$ 392,512.00	X	X	X	X	X	X	X	X
3	Westland Contractors, Inc.	\$ 369,290.00	X	X	X	X	X	X	X	X
4	Mosto	\$ 379,719.00	X	X	X	X	X	X	X	X
5	DeVaney Engineering, Inc.	\$ 446,606.00	X	X	X	X	X	X	X	X
6	FJ&I Engineering, Inc.	\$ 399,732.00	X	X	X	X	X	X	X	X
7	Koios Engineering, Inc.	\$ 356,248.00	X	X	X	X	X	X	X	X
8	Andes Construction, Inc.	\$ 417,715.00	X	X	X	X	X	X	X	X
9										
10										

Bid Recorder: Josh Roben 

Bid Opener: Darryl Sweet

Project Manager: Stephanie Angla 