



Office of the City Manager

CONSENT CALENDAR
December 10, 2019

To: Honorable Mayor and Members of the City Council
From: Dee Williams-Ridley, City Manager
Submitted by: Phillip L. Harrington, Director, Department of Public Works
Subject: Contract: Precision Engineering Inc. for Sanitary Sewer Rehabilitation and Replacement at Various Locations

RECOMMENDATION

Adopt a Resolution approving plans and specifications for the Sanitary Sewer Project, located on San Pablo Avenue at University Avenue, Parker Street, Carleton Street, Derby Street, and from Grayson Street to South City Limit; accepting the bid of the lowest responsive and responsible bidder, Precision 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 \$2,246,219, which includes a 10% contingency of \$204,202.

FISCAL IMPACTS OF RECOMMENDATION

Funding is available in the FY 2020 Sanitary Sewer Fund 611-54-623-676-3013-000-473-665130-PWENSR2001.

Low bid by Precision Engineering Inc. \$2,042,017
10% Contingency \$204,202
Total construction cost\$2,246,219

The contract has been entered into the Contract Management System (CMS) as CMS No. MMVJV.

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 to eliminate potential health hazards to the public. The project will be sited at various locations on San Pablo Avenue as shown on the Location Map (Attachment 2). The sanitary sewer collection system in these areas needs immediate rehabilitation to prevent impending 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 replacement or rehabilitation of approximately 4,135 linear feet of sanitary sewer mains varying in size from 6-inch to 12-inch diameter; maintenance hole construction; replacement of 4-inch and 6-inch diameter sanitary sewer laterals; and other related work. To reduce traffic impacts, minimize inconvenience to residents, and reduce cost, a majority of this sanitary sewer rehabilitation work will be performed using the pipe bursting method. This trenchless method allows replacement of pipelines buried below street level (such as sewer or water pipes) without the need for a traditional open trench construction. This method of pulling a new high-density polyethylene pipe (HDPE) through the existing clay pipe with a cone-shaped hammerhead to "burst" the surrounding clay pipe, allows for cost savings, and avoids street closures and traffic disruptions caused by open trenches.

The scope of work also includes provisions for urgent/emergent actions related to acute sewer defects that will be undertaken at other citywide locations on an as-needed basis. As required by the United States Environmental Protection Agency (EPA) and Regional Water Quality Control Board Consent Decree, acute defects must be addressed no later than one year after they are identified. The 125 working day contract term includes an 80 working day performance period and an additional 45 working days for project closeout. Finally, a 10% contract contingency of \$204,202 is included to pay for related unexpected future construction events.

This recommendations supports the Citywide Strategic Goal of providing state-of-the-art, well-maintained infrastructure, amenities, and facilities.

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 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 sixth year of the twenty-two-year Consent Decree program, which stipulates the City shall perform collection system repair and rehabilitation to control infiltration and inflow.¹ 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 project advances a Strategic Plan Priority Goal to provide state-of-the-art, well-maintained infrastructure, amenities, and facilities.

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

An Invitation for Bids (Specification. No. 20-11351-C) was released on September 20, 2019 and eight non-local bids were received, ranging from a low of \$2,042,017 to a high of \$3,437,505 (Attachment 3, Bid Results). The engineer's estimate for the project was \$2,700,000. Precision Engineering Inc. of San Francisco, CA was the lowest responsive and responsible bidder with a bid of \$2,042,017. Previous work and references of Precision Engineering Inc. proved satisfactory, thus staff recommends award of the contract to Precision Engineering Inc.

The Living Wage Ordinance does not apply to this project as Department of Public Works construction contracts are subject to State prevailing wage laws. Precision Engineering Inc. has submitted a Certification of Compliance with the Equal Benefits Ordinance. Because the project's estimated value exceeds \$500,000, the Department of Public Works intends to continue honoring the Community Workforce Agreement (CWA) and will apply its terms to this agreement. As a result, the successful bidder and all subcontractors must agree to be bound by the terms of the CWA.

ENVIRONMENTAL SUSTAINABILITY

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

RATIONALE FOR RECOMMENDATION

Contracted services are required for these large projects, 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. Finally, subject to fines and stipulated penalties, the Consent Decree demands the City to repair acute defects within one year of discovery, and complete sanitary sewer main rehabilitation and replacement at a three-year annual average minimum of 22,120 feet per fiscal year. The City will have a three year annual average of approximately 23,220 linear feet of replaced or rehabilitated sewer mains after completing the FY 2020 work by June 30, 2020.

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

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Nisha Patel, Manager of Engineering, Public Works, (510) 981-6406
Adadu Yemane, Associate Civil Engineer, Public Works, (510) 981-6413

Attachments:

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

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

CONTRACT: PRECISION ENGINEERING INC. FOR SANITARY SEWER REHABILITATION AND REPLACEMENT - SAN PABLO AVENUE AT UNIVERSITY AVENUE, PARKER STREET, CARLETON STREET, DERBY STREET, AND FROM GRAYSON STREET TO SOUTH CITY LIMIT.

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 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 and Replacement Project and other urgent/emergent sewer repairs; and

WHEREAS, on September 20, 2019 the City released an Invitation for Bids (Specification No. 20-11351-C) for sanitary sewer rehabilitation and replacement; and

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

WHEREAS, funds are available in the FY 2020 budget for Sanitary Sewer Fund 611 and the contract has been entered as CMS No. MMVJV.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the Plans and Specifications No. 20-11351-C for the Sanitary Sewer Rehabilitation and Replacement 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 Precision Engineering Inc., until completion of the project in accordance with the approved specifications for the Sanitary Sewer Rehabilitation and Replacement Project located on San Pablo Avenue at University Avenue, Parker Street, Carleton Street, Derby Street, and from Grayson Street to South City Limit, in an amount not to exceed \$2,246,219 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.

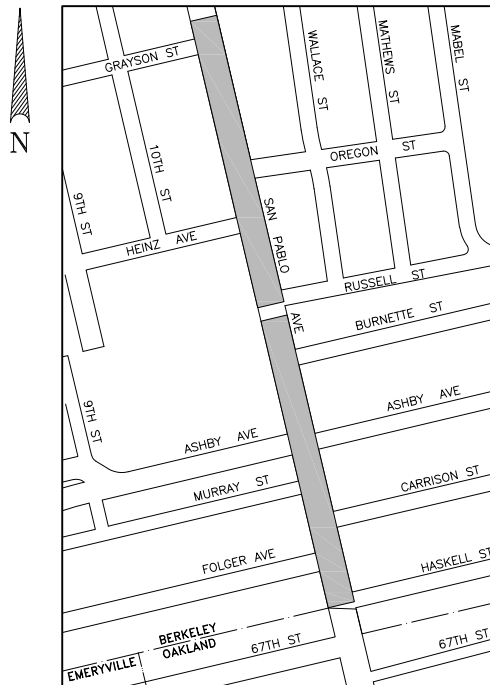
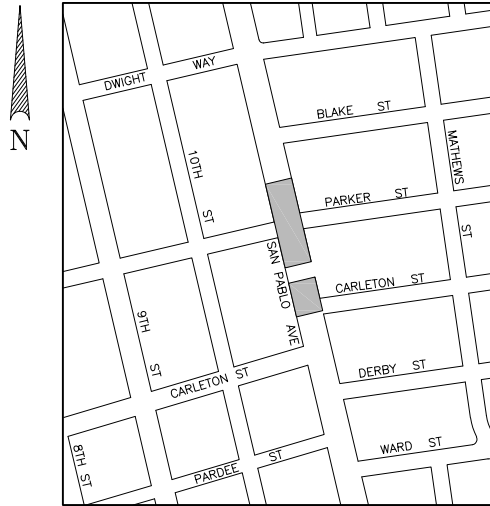
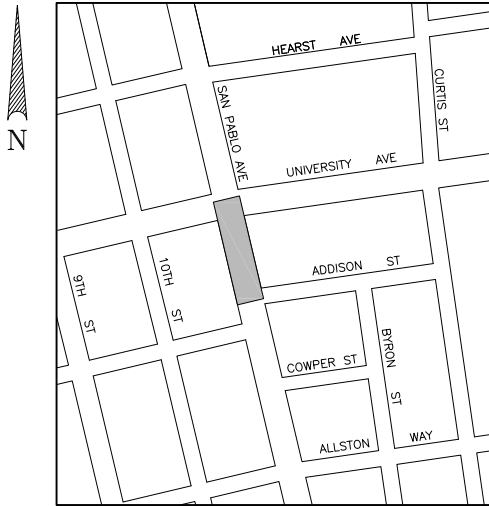
LOCATION MAP

SANITARY SEWER REHABILITATION AND REPLACEMENT

SAN PABLO AVENUE

AT UNIVERSITY AVENUE, PARKER STREET, CARLETON STREET,
AND FROM GRAYSON STREET TO SOUTH CITY LIMIT

SPECIFICATION NO. 20-11351-C



ATTACHMENT 2

 - CONSTRUCTION AREA



Finance Department
General Service Division

City of Berkeley
Abstract of Bids Worksheet

For: SANITARY SEWER REHABILITATION PROJECT

BID
BOND

Specification#: 20-11351-C

Bid Date: 10/17/2019

	Bidders	Base Bid	Nuc Free	Work Force Comp	Opp. States	Living Wage	EBO	
1	WESTLAND CONTRACTORS INC	2,574,710.00	✓		✓		✓	✓
2	DARCY & HARDY CONSO. INC	3,366,380.00	✓		✓		✓	✓
3	CRATUS INC	2,504,440.00	✓		✓		✓	✓
4	PRECISION ENGINEERING	2,042,017.00	✓		✓		✓	✓
5	PACIFIC TRENCHLESS INC	2,971,867.00	✓		✓		✓	✓
6	BAY PACIFIC PIPELINES INC	2,672,765.00	✓		✓		✓	✓
7	ANDES CONSTRUCTION INC	3,437,505.00	✓		✓		✓	✓
8								
9								
10								

ADD
✓
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✓
✓
✓

Bid Recorder: [Signature]

Bid Opener: [Signature]

Project Manager: [Signature]



City of Berkeley
Abstract of Bids Worksheet

Finance Department
General Service Division

For: SANITARY SEWER REHABILITATION PROJECT

Specification#: 20-11351-C

Engineer's Estimate:

Bid Date: 10/18/2019

	Bidders	Base Bid	Nuc Free	Work Force Comp	Opp. States	Living Wage	EBO	Bid Bond	Addendum
1	KEEEX ENGINEERING INC	3,107,175.00	✓		✓		✓	✓	✓
2									
3									
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7									
8									
9									
10									

Bid Recorder: [Signature] 10/18/19

Bid Opener: [Signature] 10/18/19

Project Manager: [Signature]