



Office of the City Manager

CONSENT CALENDAR
December 12, 2023

To: Honorable Mayor and Members of the City Council
From: Dee Williams-Ridley, City Manager
Submitted by: LaTanya Bellow, Deputy City Manager; Interim Director, Public Works
Subject: Contract (Specification No. 24-11619-C: Koios Engineering, Inc. for The Alameda, et al. Sanitary Sewer Rehabilitation Project

RECOMMENDATION

Adopt a Resolution approving plans and specifications for the Sanitary Sewer Project located on The Alameda, Keeler Avenue, Euclid Avenue Et Al., and:

- Accept the bid of the lowest, responsive and responsible bidder, Koios Engineering, Inc., and
- Authorize 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 \$3,456,596, which includes a 10% contingency of \$314,236.

FISCAL IMPACTS OF RECOMMENDATION

Funding is available in the FY 2024 Sanitary Sewer Fund.

Low bid by Koios Engineering, Inc.....	\$3,142,360
10% Contingency	\$314,236
Total construction cost	\$3,456,596

CURRENT SITUATION AND ITS EFFECTS

An Invitation for Bids (Specification. No. 24-11619-C) was released on September 26, 2023, and bids were opened on October 24, 2023. Five non-local bids were received ranging from a minimum of \$2,791,439 to a maximum of \$4,212,761, as detailed in Attachment 3 (Bid Results). The City Staff estimate for the project was \$4.3 million.

Bay Pacific Pipeline, Inc. submitted the lowest apparent bid at \$2,791,419. However, the bid was deemed non-responsive as it failed to include pricing details for a contract bid item and the associated subcontractor for that specific bid item. A second non-responsive bid for the amount of \$3,725,024 was submitted by Andes Construction.

Koios Engineering, Inc., headquartered in San Francisco, California, became the lowest responsive and responsible bidder. Their submission presented a bid of \$3,142,360,

and their references were satisfactory. Therefore, Staff recommends the contract be awarded to Koios Engineering, Inc. Responsive bids as detailed in Attachment 3 (Bid Results)

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 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 stormwater 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 discharge from its 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. This supports 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 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 systems need immediate rehabilitation to prevent pipe failures, sewer blockages, leakage, and capacity issues. 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 difficulties previously found in other sanitary sewer mains before their replacement.

Planned work includes the rehabilitation of approximately 5,323 linear feet of sanitary sewer mains varying in size from 6-inch to 12-inch diameter sanitary sewer pipe; rehabilitation of sixty-five maintenance holes; removal and reconstruction of fifteen maintenance holes; replacement of 4-inch and 6-inch diameter sanitary sewer laterals, and other related work. The City has provided an option of a trenchless method for most of this sanitary sewer rehabilitation work to reduce traffic impacts and minimize inconvenience to the public. This trenchless method replaces pipelines buried below street level without traditional open trench construction.

The contract's one hundred forty working day term includes a ninety-five working day construction period and an additional forty-five working days for project closeout.

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 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
Srinivas Muktevi, Supervising Civil Engineer, Public Works, (510) 981-6402
Adadu Yemane, Associate Civil Engineer, Public Works, (510) 981-6413

Attachments:

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

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

CONTRACT: KOIOS ENGINEERING INC. FOR SANITARY SEWER REHABILITATION
– THE ALAMEDA, KEELER AVENUE, EUCLID AVENUE ET AL. PROJECT

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 September 26, 2023, the City released an Invitation for Bids (Specification No. 24-11619-C) for sanitary sewer rehabilitation and replacement; and

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

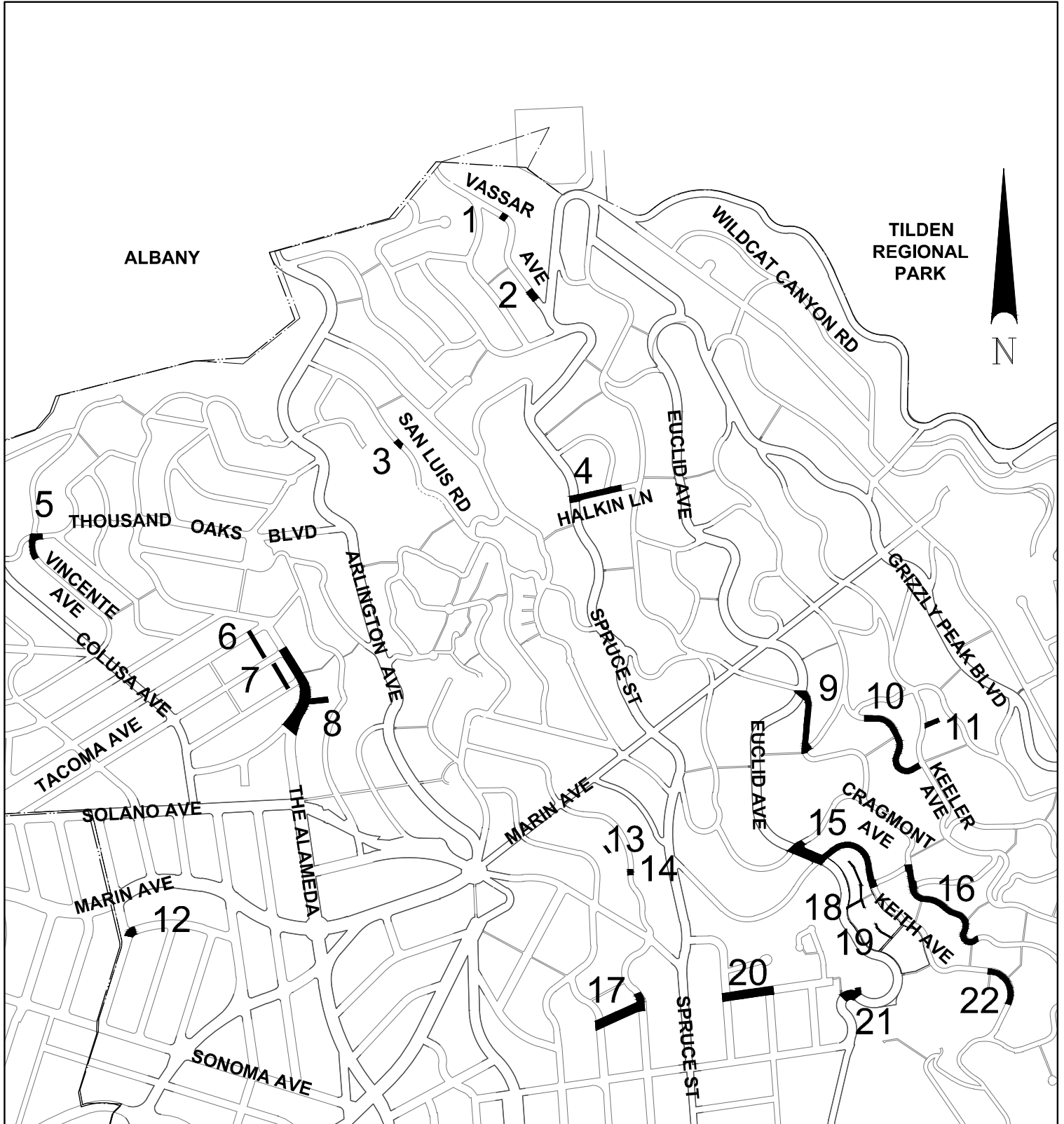
WHEREAS, the City filed a Notice of Exemption on May 18, 2023, declaring this work is exempt from the California Environmental Quality Act; and

WHEREAS, funds are available in the FY 2024 budget Sanitary Sewer Fund 611.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the Plans and result of Specification No. 24-11619-C for the Sanitary Sewer Rehabilitation 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 Sanitary Sewer Rehabilitation Project -The Alameda, Keeler Avenue, Euclid Avenue et Al. The project is located throughout the City, in an amount not to exceed \$3,456,596. 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. 23-11619-C



LEGEND

 POINT REPAIR LOCATION

PROJECT LOCATION MAP

ATTACHMENT 3 (BID RESULTS)

PROJECT NAME: SANITARY SEWER REHABILITATION
THE ALAMEDA, EUCLID AVE, ET AL.

SPECIFICATION NO. 24-11619-C
BID OPENING: 2:00 p.m., OCTOBER 24, 2023

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	Koisos SAN FRANCISCO, CA		APB Engineering OAKLAND, CA		PRECISION ENGINEERING, INC SAN FRANCISCO, CA	
				Unit price	Total amount	Unit price	Total amount	Unit price	Total amount
1.	Mobilization/Demobilization	1	LS	\$250,000.00	\$250,000.00	\$175,000.00	\$175,000.00	\$587,000.00	\$587,000.00
2.	Traffic Control Plan	1	LS	\$125,000.00	\$125,000.00	\$32,000.00	\$32,000.00	\$555,000.00	\$555,000.00
3.	Lighted Message board	4	EA	\$250.00	\$1,000.00	\$16,000.00	\$64,000.00	\$5,000.00	\$20,000.00
4.	Pre-construction audio/video survey and distribution of public notices	1	LS	\$50,000.00	\$50,000.00	\$23,000.00	\$23,000.00	\$10.00	\$10.00
5.	Pre-construction closed circuit television inspection and location of active house laterals	5,067	LF	\$2.50	\$12,667.50	\$5.00	\$25,335.00	\$4.00	\$20,268.00
6.	Construction staking and cutsheets	1	LS	\$1,000.00	\$1,000.00	\$25,000.00	\$25,000.00	\$10.00	\$10.00
7a.	Rehabilitate existing maintenance hole or junction box	65	EA	\$3,850.00	\$250,250.00	\$6,000.00	\$390,000.00	\$10,000.00	\$650,000.00
8.	Construct std. MH and drop MH, including lining, eccentric cones, all depths	Not Used	EA	---	\$0.00	---	\$0.00	---	\$0.00
9a.	Remove existing structures and construct std. MH, drop MH, shallow MH, junction box, eccentric cones, all depths	4	EA	\$15,000.00	\$60,000.00	\$9,500.00	\$38,000.00	\$12,000.00	\$48,000.00
9b.	Remove existing structure and construct lamphole or cleanout, all depths	26	EA	\$2,500.00	\$65,000.00	\$6,000.00	\$156,000.00	\$12,000.00	\$312,000.00
9c.	Remove existing structures and construct 36" Diameter HDPE MH, all depths	11	EA	\$15,000.00	\$165,000.00	\$9,500.00	\$104,500.00	\$15,000.00	\$165,000.00
10a.	Rehabilitation by Method "A" CIPP for maintaining pipe size from 6 to 6-inch pipe; includes point repair to correct sags	427	LF	\$150.00	\$64,050.00	\$185.00	\$78,995.00	\$140.00	\$59,780.00
10b.	Rehabilitation by Method "A" CIPP for maintaining pipe size from 8 to 8-inch pipe; includes point repair to correct sags	446	LF	\$105.00	\$46,830.00	\$220.00	\$98,120.00	\$95.00	\$42,370.00
11a.	Rehabilitation by Method "B" Pipe Splitting or Other Comparable Method for Increasing Pipe Size From 4-inch to 4-inch, or 4-inch to 6-inch Diameter; Includes Point Repairs to Correct Sags	Not Used	LF		\$0.00		\$0.00		\$0.00
11b.	Rehabilitation by Method "B" Pipe Splitting or Other Comparable Method for Increasing Pipe Size From 6-inch to 6-inch, 6-inch to 8-inch, or 8-inch to 8-inch Diameter; Includes Point Repairs to Correct Sags	2,544	LF	\$185.00	\$470,640.00	\$210.00	\$534,240.00	\$250.00	\$636,000.00
11c.	Rehabilitation by Method "B" pipe splitting, reaming, or other comparable method for increasing pipe size from 8 to 10-inch, or 10-inch to 10-inch Diameter; Includes Point Repairs to Correct Sags	414	LF	\$450.00	\$186,300.00	\$220.00	\$91,080.00	\$275.00	\$113,850.00

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				Unit price	Total amount	Unit price	Total amount	Unit price	Total amount
11d.	Rehabilitation by Method "B" pipe splitting, reaming, or other comparable method for increasing pipe size from 10 to 12, or 12-inch to 12-inch Diameter; Includes Point Repair to Correct Sags	856	LF	\$475.00	\$406,600.00	\$250.00	\$214,000.00	\$350.00	\$299,600.00
11e.	Rehabilitation by Method "B" slip lining of host pipe size of 8-inch diameter with 6-inch diameter (Revocable)	183	LF	\$175.00	\$32,025.00	\$150.00	\$27,450.00	\$175.00	\$32,025.00
12a.	Sewer construction and replacement by Method "C" Traditional Open Trench Method for Increasing Pipe Size from 4-inch to 6-inch or 6-inch to 6-inch Diameter; Includes Point Repair of Sags	288	LF	\$425.00	\$122,400.00	\$325.00	\$93,600.00	\$450.00	\$129,600.00
12b.	Sewer construction and replacement by Method "C" Traditional Open Trench Method for Increasing Pipe Size from 6-inch to 8-inch or 8-inch to 8-inch; Includes Point Repair of Sags	125	LF	\$450.00	\$56,250.00	\$375.00	\$46,875.00	\$650.00	\$81,250.00
12c.	Sewer construction and replacement by Method "C" Traditional Open Trench Method for increasing pipe size from 8 to 10-inch diameter, or 10-inch to 10-inch; Includes Point Repair for Sags	Not Used	LF		\$0.00		\$0.00		\$0.00
12d.	Sewer construction and replacement by Method "C" Traditional Open Trench Method for increasing pipe size from 10 to 12-inch diameter, or 12-inch to 12-inch; Includes Point Repair for Sags	40	LF	\$1,500.00	\$60,000.00	\$650.00	\$26,000.00	\$725.00	\$29,000.00
13.	Lower lateral reconstruction (typically 4-inch and 6-inch laterals)	600	LF	\$50.00	\$30,000.00	\$175.00	\$105,000.00	\$5.00	\$3,000.00

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				Unit price	Total amount	Unit price	Total amount	Unit price	Total amount
14.	Installation of two-way cleanouts and lateral risers	68	EA	\$750.00	\$51,000.00	\$1,200.00	\$81,600.00	\$5.00	\$340.00
15.	Connection of active laterals to new or rehabilitated sewer main or MH	19	EA	\$500.00	\$9,500.00	\$5,000.00	\$95,000.00	\$5.00	\$95.00
16.	Post-construction closed circuit television inspection and construction As-Built Drawings	5,067	LF	\$2.50	\$12,667.50	\$5.00	\$25,335.00	\$4.00	\$20,268.00
17.	Remove existing and construct standard curb and gutter	26	LF	\$75.00	\$1,950.00	\$450.00	\$11,700.00	\$5.00	\$130.00
18.	Remove existing, and construct standard sidewalk and driveway	40	SF	\$50.00	\$2,000.00	\$100.00	\$4,000.00	\$5.00	\$200.00
19.	Utility x-ings not shown and/or identified on the plans and not marked on street, length of x-ing <25 feet, 1/2-6 inch diameter	15	EA	\$250.00	\$3,750.00	\$2,500.00	\$37,500.00	\$5.00	\$75.00
20.	Utility x-ings not shown and/or identified on the plans and not marked on street, length of x-ing <25 feet, 6-24 inch diameter	5	EA	\$250.00	\$1,250.00	\$4,500.00	\$22,500.00	\$5.00	\$25.00
21.	Rock excavation	75	CY	\$10.00	\$750.00	\$1,000.00	\$75,000.00	\$5.00	\$375.00
22.	Reconstruction/Replacement of City monuments.	6	EA	\$100.00	\$600.00	\$15,000.00	\$90,000.00	\$5.00	\$30.00
23.	Supplemental Work	1	LS	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00
24.	BART District Permit to Enter	Not Used	LS		\$0.00		\$0.00		\$0.00
25.	Caltrans Encroachment Permit/Authorization to work	Not Used	LS		\$0.00		\$0.00		\$0.00
26.	EBRPD Permit - Additional provisions and insurance requirements.	Not Used	LS		\$0.00		\$0.00		\$0.00
27.	Stormwater Pollution Control and Sewage Spill Prevention and Response Requirements	1	LS	\$20,000.00	\$20,000.00	\$50,000.00	\$50,000.00	\$20,000.00	\$20,000.00
28.	Sewer Bypass (for Sewer Mains 27" and Larger)	Not Used	LS		\$0.00		\$0.00		\$0.00
29.	Investigate other existing sewer mains, structures, and laterals.	1	LS	\$1,500.00	\$1,500.00	\$75,000.00	\$75,000.00	\$20,000.00	\$20,000.00
30.	California Dept of Fish and Wildlife, Creek Permit - Additional Requirements For Work Adjacent to City's Creek	Not Used	LS		\$0.00		\$0.00		\$0.00
31.	Point (Spot) Repair	7	EA	\$9,750.00	\$68,250.00	\$20,000.00	\$140,000.00	\$4,000.00	\$28,000.00
32.	Plug and abandon existing sewer mains, sewer structure and laterals	1	LS	\$10,000.00	\$10,000.00	\$38,000.00	\$38,000.00	\$20,000.00	\$20,000.00
33.	Cold Plane 0.2' (Revocable)	39,800	SF	\$5.10	\$202,980.00	\$10.00	\$398,000.00	\$0.20	\$7,960.00
34.	Concrete Staircase Replacement (Includes Handrail)	23	SF	\$50.00	\$1,150.00	\$850.00	\$19,550.00	\$500.00	\$11,500.00
TOTAL COST					\$3,142,360.00		\$3,811,380.00		\$4,212,761.00