



Memorandum

TO: HONORABLE MAYOR
AND CITY COUNCIL

FROM: Matt Loesch

SUBJECT: SEE BELOW

DATE: May 20, 2024

Approved

Date

5/30/24

SUBJECT: MASTER AGREEMENT WITH HDR ENGINEERING, INC. FOR CIVIL AND ENVIRONMENTAL ENGINEERING CONSULTING SERVICES FOR THE SANITARY SEWER SYSTEM

RECOMMENDATION

Adopt a resolution authorizing the City Manager or her designee to negotiate and execute a master agreement with HDR Engineering, Inc. for civil and environmental engineering services for various sanitary sewer projects from the date of execution to June 11, 2029, in an amount not to exceed \$5,000,000.

SUMMARY AND OUTCOME

Award of the master consultant agreement with HDR Engineering, Inc. enables the City to obtain consultant services for sanitary projects and/or programs on an as-needed basis.

The consultant services are needed to assist City staff in the design of technically complex projects and/or guidance in proposing new programs for the sanitary sewer section. In addition, the consultant can be asked to provide expert review of third-party constructability reviews, material submittals, and specialty construction inspection.

BACKGROUND

The City of San José's sanitary sewer system is comprised of approximately 2,039 miles of sewer pipes varying in diameter from six to 90 inches; including 11 miles of force mains; approximately 40,000 sanitary manholes; 17 sanitary pump stations; two soil bed filter stations; and one ferrous chloride injection station. Roughly 80 percent of the sewer lines are 10-inches and smaller in diameter. The remaining 20 percent, primarily 12-inch and larger diameter pipes, comprise the trunk and interceptor system, which is the primary network for conveying flows

generated by the City's service area to the San José-Santa Clara Regional Wastewater Facility. The majority of the City's sewer pipelines were constructed from the 1950s to 1980.

The interceptor system consists of a series of parallel, large diameter pipelines that extend from Seventh and Empire Streets, north along Seventh, Fifth, and Fourth Streets to Highway 101, and across Highway 101 along Zanker Road. The interceptor sewers range in diameter from 36 to 84 inches. The interceptor has traditionally been broken into seven major segments, or "phases", with Phases 1 through 5 located north of Highway 101 and Phases 6 and 7 located south of the highway. Several major junction structures, identified by letters (e.g., Structure A, B, C, etc.) are located at intervals along the interceptors, at locations where flows can be diverted between the parallel pipes.

The City has been actively assessing, repairing, and improving the smaller diameter sewer pipes and trunk lines through existing condition assessment and sewer pipe rehabilitation programs. The City intends to perform condition assessment on the interceptors, identify segments in need of repair or rehabilitation, and prioritize the improvements as part of future interceptor Capital Improvement Program. The work will also include the assessment of the existing junction structures, soil filter beds, and pumpstations.

ANALYSIS

The City's potential projects include pump station design, siphon design, and assessment of City's sanitary sewer interceptor system, junction structures, and soil bed filters. These potential sanitary sewer projects can be more complicated and intricate in scope and onboarding a consultant with expertise on these types of systems will be necessary. Therefore, a Request for Qualifications for civil and environmental engineering consultant services was advertised on November 1, 2023. The City received a Statement of Qualifications from one firm by the January 10, 2024 deadline. Staff from the Public Works Department conducted a selection process in accordance with the evaluation criteria specified in the Request for Qualifications as follows:

- The necessary expertise, qualifications, technical staff, managerial staff, and equipment and to carry out the work;
- Prior recent experience on related or similar projects and the availability of these individuals to work on future City projects;
- The consultant's project approach regarding evaluations, recommendations, collaboration, construction management, and the ability to complete the work within a proposed time schedule.

The Statement of Qualification submitted by the firm was evaluated and rated as follows:

Consultant	Expertise	Experience	Approach	Local/Small Business Preference	Overall Score
HDR Engineering, Inc.	29.33 / 30	27.33 / 30	28.00 / 30	5 / 10	89.66 / 100

Based on the projected need for civil and environmental consulting services for the sanitary sewer program over the next five years, staff recommends awarding a master consultant agreement to HDR Engineering, Inc. for the services outlined below.

- Condition assessment, analysis, and design of required improvements to the four major interceptors, including the junction structures.
- Condition assessment, analysis, and design of required rehabilitation and upgrade of the sanitary sewer pump stations.
- Evaluation of the condition of the soil filter beds and provide professional recommendations for needed modifications or improvements.
- Conduct an environmental impact report and provide design support on planned and future capital improvement projects, including the Fourth Major Interceptor Phase VII project.
- Assist in the development of sewer odor control and mitigation program.
- Provide third-party design review and construction management support.

This master consultant agreement will be administered using individual service orders. Each service order will specify the scope of services that HDR Engineering, Inc. must perform and the compensation to which it would be entitled upon delivery of all specified services.

EVALUATION AND FOLLOW-UP

Service orders under the master agreement will be approved by the Director of Public Works. No additional follow-up action with City Council is anticipated at this time.

COST SUMMARY/IMPLICATIONS

This is a five-year agreement to be funded by the Sewer Service and Use Charge Capital Improvement Fund. Costs will vary amongst service orders, but the cumulative cost of all service orders will not exceed 5,000,000. This project will have no net operating and maintenance impact on the General Fund or the Sewer Service and Use Charge Fund, which provides for the maintenance and operations of sanitary sewer infrastructure.

1. TOTAL COST OF CONTRACT/AGREEMENT

Agreement Amount	\$5,000,000
Project Delivery (Contract Administration)	\$500,000
TOTAL	\$5,500,000

2. COST ELEMENTS OF AGREEMENT/CONTRACT AS RECOMMENDED AS PART OF THE MEMORANDUM:

The consultant services provided by HDR Engineering, Inc. are reimbursed based on an hourly rate schedule in the master agreement for the involved consultant personnel.

BUDGET REFERENCE

The table below identifies the fund and appropriations to fund the contract recommended as part of this memorandum and remaining project costs, including project delivery, construction, and contingency costs.

Fund #	Appn. #	Appn. Name	Total Appn.	Amt. for Agreement	2023-2024 Adopted Capital Budget Page	Last Budget Action (Date, Ord. No.)
545	426B	Sanitary Sewer Interceptor Management Program	\$8,993,000	\$5,000,000	211	10/17/2023, Ord. No. 30966

COORDINATION

This memorandum has been coordinated with the City Attorney’s Office, the City Manager’s Budget Office, and the Planning, Building, and Code Enforcement Department.

PUBLIC OUTREACH

This memorandum will be posted on the City’s Council Agenda website for the June 11, 2024 City Council meeting.

COMMISSION RECOMMENDATION AND INPUT

No commission recommendation or input is associated with this action.

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CEQA

CEQA: Not a Project, File No. PP17-033, Agreements/Contracts (New or Amended) resulting in no physical changes to the environment.

PUBLIC SUBSIDY REPORTING

This item does not include a public subsidy as defined in section 53083 or 53083.1 of the California Government Code or the City's Open Government Resolution.

/s/

Matt Loesch

Director of Public Works

For questions, please contact Mathew Nguyen, Deputy Director of Public Works, at mathew.nguyen@sanjoseca.gov or (408) 535-8300.