



# COUNCIL REPORT

**DATE:** September 13, 2022  
**CATEGORY:** Consent  
**DEPT.:** Public Works  
**TITLE:** **Middlefield and Moffett Sewer Replacement, Project 22-42—Authorize Professional Design Services Agreement**

## **RECOMMENDATION**

Authorize the City Manager or designee to execute a professional design services agreement with BKF Engineers to provide engineering services for Middlefield and Moffett Sewer Replacement, Project No. 22-42, in a not-to-exceed amount of \$627,000.

## **BACKGROUND**

Utility Alignment and Constructability Study, Project 12-38, completed in 2017, identified improvements and/or redundancies required to provide reliable utility services to the community. The study included evaluating the vulnerability of utility crossings of major highways and creeks. One such crossing is a sewer main that crosses Stevens Creek and State Route 85 by Moffett Boulevard. Due to incompatibility with Valley Water’s objectives for Stevens Creek, the City is not able to rehabilitate the City’s existing sewer main that traverses Stevens Creek. The next upstream sewer main, which cuts across the Ameswell development at 750 Moffett Boulevard, had maintenance access issues and the potential for odor problems due to the creation of a siphon for the pipe crossing the creek. As a result, staff devised a strategy involving constructing new sewer mains and reversing sewage flows to eliminate the Stevens Creek and State Route 85 sewer-main crossings.

Leong Drive Water and Sewer Main Replacement, Projects 16-21 and 16-22, completed in 2020, eliminated the sewer main crossing through the Ameswell development and reversed the sewer flow easterly from Moffett Boulevard to Leong Drive. To complete the abandonment of the sewer main crossing of Stevens Creek and State Route 85, sewage needs to be redirected from flowing to a sewer main that parallels Stevens Creek on the east side of State Route 85 north of Moffett Boulevard, to flowing south on Moffett Boulevard and west on West Middlefield Road (see Figure 1).



**Figure 1: Project Location Map**

Middlefield and Moffett Sewer Replacement, Project No. 22-42, consists of reversing the flow direction along Moffett Boulevard west of State Route 85 to direct the flow to West Middlefield Road by adding a new pipe connecting the existing 12" main on Moffett Boulevard to the proposed upsized 15" main on West Middlefield Road. This new main will also consider improvements identified in the 2030 General Plan Update for future sewer demands to serve the development needs in the project area along Middlefield Road, including the potential development of the Shenandoah property owned by the U.S. Army.

Due to the proximity of the San Francisco Public Utilities Commission (SFPUC)'s potable water mains, which cross the Moffett Boulevard and Middlefield Road intersection, the new sewer main is proposed along the southern corner of the Shenandoah property. Staff has been and will continue to work with the U.S. Army to obtain necessary permanent and temporary easements for this work prior to construction.

### **ANALYSIS**

In July 2022, the City issued a Request for Proposals (RFP) for the design of the Middlefield and Moffett Sewer Replacement project and received three proposals. A review panel comprised of Public Works staff deemed BKF Engineers to be the most qualified on the basis of their written proposal, experience in completing similar projects, and understanding of the project goals.

The recommended not-to-exceed design contract amount of \$627,000 includes \$544,197 for basic services, including reimbursable expenses, and an additional services amount of \$82,803 for unforeseen items. The recommended fees are within the ranges typically charged for such services, and staff considers this fee to be fair and reasonable for the scope of work required. If the recommendation is approved, BKF Engineers can begin design work at the end of 2022 with an estimated design completion of early 2024.

### **FISCAL IMPACT**

Middlefield and Moffett Sewer Replacement, Project 22-42, is funded with \$750,000 from the Wastewater Fund. There are sufficient funds in the project budget for the recommended agreement.

### **ALTERNATIVES**

1. Do not authorize the professional services agreement with BKF Engineers, and direct staff to reissue the RFP.
2. Provide other direction.

**PUBLIC NOTICING**—Agenda posting.

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