



Agenda Date: 2/16/2022

Agenda Placement: 8B

## Napa Sanitation District Board Agenda Letter

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**TO:** Honorable Board of Directors

**FROM:** Timothy Healy - General Manager  
NS-Technical Services/Engineer

**REPORT BY:** Karl Ono, Associate Engineer - (707) 258-6013

**SUBJECT:** Accept Completion of the 66-inch Trunk Sewer Rehabilitation Project (CIP 19701)

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### **RECOMMENDATION**

Adopt Resolution accepting completion and authorizing the General Manager to file the Notice of Completion at the Napa County Office of the Recorder for the 66-inch Trunk Sewer Rehabilitation Project (CIP 19701).

### **EXECUTIVE SUMMARY**

On February 24, 2021, NapaSan entered into a contract with SAK Construction LLC to furnish all labor, materials, equipment, and services required for the construction of the 66-inch Trunk Sewer Rehabilitation Project (CIP 19701). On February 9, 2022, the General Manager submitted his Certificate of Completion to the Board Secretary certifying that the Project was completed to his satisfaction. The total approved contract amount for this project is \$6,040,839.91. Currently 5% or \$302,042.00 is being held as retention on this project. The full retention amount will be released to the Contractor 35-days after filing of the Notice of Completion with the Recorder and after NapaSan receives confirmation that all vendors and subcontractors have been paid in full.

The original contract was awarded for \$5,621,944. Total change orders for the project increased the contract amount by \$418,896 which is 7.5% of the original contract amount. There was one change order that accounted for unexpected site conditions that could not be anticipated during design of the project and two change orders that accounted for owner-initiated changes that added to the scope of the project. The engineer's estimate of probable construction cost was \$11,600,000.

The original project budget was \$11,000,000. Based on the engineer's estimate amount of \$11,600,000, provisions were made to increase the project budget to up to \$15,000,000. However, after bids were opened this increase was deemed unnecessary and not completed. Excess funds from the original project budget were transferred to fund additional I&I reduction projects in the collection system.

**FISCAL & STRATEGIC PLAN IMPACT**

Is there a Fiscal Impact? No

**ENVIRONMENTAL IMPACT**

None.

**BACKGROUND AND DISCUSSION**

The 66-inch trunk sewer conveys over 90 percent of collection system wastewater flow to NapaSan's Soscol Water Recycling Facility (SWRF). The trunk sewer is approximately three miles long and parallels the east side of the Napa River, extending from Imola Avenue to the SWRF. The trunk sewer was constructed in the 1960s and, prior to this project, consisted entirely of reinforced concrete pipe (RCP) without a protective coating.

Routine inspections of the trunk sewer conducted in 2012 and again in 2017 revealed significant concrete deterioration had occurred on the inside of the pipeline during those five years. In response, NapaSan initiated a physical condition assessment evaluation in late 2017, which indicated that portions of the RCP trunk sewer were structurally compromised and had exposed and corroded reinforcement. An additional condition assessment of the entire alignment was performed in early 2019. The 2019 condition assessment concluded with recommendations for a near-term structural rehabilitation project for the portion of the alignment south of Kaiser Road.

This project included rehabilitation of 7,100 linear feet (1.3 miles) of 66-inch diameter trunk sewer from Kaiser Road to the SWRF. The remaining length of 66-inch diameter trunk sewer (1.7 miles from Imola Avenue to Kaiser Road) is scheduled for rehabilitation in the future. The Project also included modifications to and rehabilitation of 10 manholes along the alignment of the trunk sewer where rehabilitation was performed and installation of one new manhole that was required to install the cured-in-place pipe (CIPP) liner.

**SUPPORTING DOCUMENTS**

- A . Certificate of Completion - CIP 19701
- B . Completion Resolution - CIP 19701
- C . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy