



Agenda Date: 4/5/2017
Agenda Placement: 8D

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors
FROM: Timothy Healy - General Manager
NS-Technical Services/Engineer
REPORT BY: Kyle Broughton, Associate Engineer - 258-6000 x530
SUBJECT: Award Construction Contract for the Soscol/Sousa Trunk Rehabilitation Project (CIP 17705)

RECOMMENDATION

Award construction contract for the Soscol/Sousa Trunk Rehabilitation Project (CIP 17705) to Insituform Technologies, LLC. for the bid amount of \$1,088,330 and authorize the General Manager to execute the Agreement with the Contractor and Issue Notice to Proceed, when appropriate.

EXECUTIVE SUMMARY

On March 28, 2017, NapaSan received 4 bids for the Soscol/Sousa Trunk Rehabilitation Project (CIP 17705). A summary of all bids is attached. The engineer's estimate of probable construction cost for the project was \$800,000. Insituform Technologies, LLC. is the lowest responsive, responsible and qualified bidder with a bid amount of \$1,088,330. Insituform's bid is 36% higher than the engineer's estimate, and 42% lower than the second lowest bid.

Staff analyzed the bids received in order to determine if there were any concerns regarding the bid costs; the analysis considering: 1) The low bid being substantially higher than the engineer's estimate, and 2) The low bid being substantially lower than the second lowest bid.

- 1) The low bid was 36% higher than the engineer's estimate. NapaSan staff attributes this to the following:
 - 1 An additional manhole was added to the scope of work during the bid period. The average bid cost for the additional manhole was \$54,000 due it's location in Soscol Avenue and the extent of traffic control and night work that will be required to construct the manhole; the original engineer's estimate was not increased accordingly.
 - 1 Project constraints requiring night and weekend work were added during the bid period in partnership with the City of Napa in order to minimize traffic impacts to the public; the constraints result in some

interruptions of work to avoid impacts during commuting hours, and additional mobilizations to the site and second-shift labor rates; these added costs were not considered in the original engineer's estimate.

- | The sewer mains scheduled for rehabilitation are 25% full of grit/debris, which equates to approximately 75-165 tons (depending on water content) of debris removal and disposal. The trucking and disposal costs to the nearest landfill result in the addition of approximately \$200,000 to the contract (versus sewer mains with little to no debris).

2) The low bid was 42% lower than the second lowest bid. NapaSan staff consulted the low bidder and confirmed the following:

- | The low bidder considers its bid complete.
- | The low bidder intends to propose an alternative approach to traditional temporary buried bypass pumping during construction that would reduce the amount of excavation in Soscol Avenue in comparison to other bidders. This savings is evident in the bid results for the sewage flow control bid item, which is between \$200,000 and \$300,000 lower than other bidders' costs for sewage flow control.

In consideration of the analysis and information above, staff recommends to award the construction contract to the lowest bidder, Insituform Technologies, LLC.

The Notice to Proceed is expected to be issued in late-April 2017. The contractor has 120 days from Notice to Proceed to substantially complete the project.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	\$1,000,000 is budgeted for the project in the FY 16/17 and the proposed FY 17/18 Capital Improvement Plan budgets. Additional funding will be added to the FY 17/18 CIP to cover additional costs.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The 45-inch trunk sewer mains scheduled for rehabilitation are critical assets with a high consequence of failure. The sewer mains have been identified as needing rehabilitation due to hydrogen sulfide corrosion.
Is the general fund affected?	Yes
Future fiscal impact:	Work will be completed in FY 17/18.
Consequences if not approved:	The 45-inch trunk sewer mains which convey approximately two-thirds of the collection system's dry weather flows will not be rehabilitated. The mains beneath Soscol Avenue will continue to be subjected to hydrogen sulfide corrosion, and will ultimately fail. Failure would result in significant sanitary sewer overflows and the potential for sink holes in Soscol Avenue.

Additional Information:

ENVIRONMENTAL IMPACT

Staff performed a preliminary CEQA review of this project and determined the project is Categorical Exempt. This project consists of rehabilitating existing sewer mains involving negligible expansion of capacity, which corresponds to Categorical Exemption 15302(c) of the California Environmental Quality Act (CEQA) guidelines. The Board concurred with this determination on February 15, 2017 and staff filed the Notice of Exemption.

BACKGROUND AND DISCUSSION

In 2012 and 2013 NapaSan performed a condition assessment of large diameter sewer mains. The inspection identified the mains included in this project need rehabilitation due to hydrogen sulfide corrosion, which has degraded the reinforced concrete pipe material at the pipeline crown to the extent that the steel reinforcement bars are exposed. The proposed project rehabilitates approximately 1,500 feet 45-inch diameter mains on Soscol Avenue, originally constructed in 1968, to new condition with structural cured-in-place liners.

The sewer mains scheduled for rehabilitation are critical NapaSan assets; the mains convey sewer flows from a large portion of the NapaSan service area. Previous projects (2002 Flood Control, 2005 North Napa Siphon Project) have replaced upstream and downstream sections of these mains.

The 45-inch trunk sewer mains convey approximately two-thirds of NapaSan's dry weather flows. Significant sewer bypass and sewer flow control is necessary to provide access to the mains for rehabilitation. It is anticipated that temporary over-the-ground bypass piping will be required, and will be in place for the duration of the project in the north-bound bike lane of Soscol Avenue. In addition, portions of the temporary bypass piping will be buried (at driveways and road crossings). The contractor's means and methods will dictate the exact bypass pumping/piping system configuration, but all traffic control plans will be subject to City of Napa approval through the encroachment permit process.

Significant project constraints have been included in this project due to its location on Soscol Avenue in order to minimize impacts to the public; most notably potential traffic impacts. No work affecting traffic lanes will be allowed during significant local events scheduled during the summer (Bottle Rock, Independence Day weekend, Napa County Fair). NapaSan staff has coordinated with the City of Napa and constrained the project working hours to minimize impacts to commute periods during the work week; portions of the work will occur at night and/or on weekends. NapaSan staff has notified the Napa Valley Transportation Authority, the Napa County Bicycle Coalition, and the adjacent Gasser Project of the upcoming work. Public outreach specific to businesses and residents along the alignment directly affected by the work will occur in April 2017, and will consist of both notification letters and door-to-door outreach by NapaSan staff. Access to businesses and residents will be accommodated at all times. NapaSan staff will issue press releases prior to the work, and electronic message boards will be provided 1 week prior to any traffic disruption (and remain in place over the duration of the work) to notify the public of impacts.

SUPPORTING DOCUMENTS

A . CIP 17705 Bid Results

B . CIP 17705 Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy