



DATE: November 13, 2018

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Immediate Repairs to Sewage Pump Station, Project 17-48 – Amend Professional Design Services Contract**

RECOMMENDATION

Authorize the City Manager to amend the professional design services agreement with Schaaf & Wheeler Consulting Engineers for the Immediate Repairs to Sewage Pump Station, Project 17-48, increasing compensation by \$145,000 for a total contract amount of \$265,000.

BACKGROUND

The City of Mountain View’s Sewer Pump Station (SPS) is located in Shoreline at Mountain View, near the Shoreline Golf Links Clubhouse, and was originally constructed in 1961 as part of the City’s wastewater treatment plant (Figure 1). After the Palo Alto Regional Water Quality Control Plant (PARWQCP) was constructed, the City’s wastewater treatment plant was discontinued and repurposed to pump wastewater to the PARWQCP. Today, approximately 85 percent of the City’s wastewater collects at the SPS and is pumped to the PARWQCP.



Figure 1

Although the pump station is in serviceable condition, many components of the station are reaching the end of their useful lives. The City completed a 2017 Shoreline Sewer Pump Station Assessment Report that included a thorough assessment of the SPS and provided an improvement strategy to implement the recommended repairs in two phases.

The first phase includes near-term repairs to improve the SPS to comply with current codes and standards and to correct some operational deficiencies to enhance pump station safety. The second phase, Long-Term Sewage Pump Station Repairs (Project 20-55), includes less critical operational upgrades and some energy-saving measures.

In February 2017, the City executed a professional design services contract with Schaaf & Wheeler Consulting Engineers (S&W) to perform design work for the Immediate Repairs to Sewage Pump Station, Project 17-48. The design is currently 90 percent complete.

ANALYSIS

As the project was being designed, City staff had to make multiple unexpected repairs at the SPS to resolve failures caused by infrastructure degradation. Staff suspects corrosion may be occurring within sections of inaccessible buried pipes after discovering a similar corrosion along external piping. To avoid failure of the piping and valve systems, staff recommends broadening the scope of the current project to include some of the long-term repairs related to the corrosion.

The additional work will include the replacement of all four sets of steel discharge pipes within the pump station, related buried piping, and an inlet slide gate and controls. This work will help to alleviate deterioration, minimize unanticipated repairs, and increase the service life of this critical infrastructure.

The estimated fee for the design scope outside the original professional services contract is \$115,430 (see Attachment 1). Staff also recommends increasing the contingency funds by \$29,570 for a total requested amendment amount of \$145,000.

If the recommended actions are approved, S&W could complete the additional design in spring 2019. Upon completion of design, staff will return to the City Council for approval of plans and specifications and amendments to the construction budget.

FISCAL IMPACT

Immediate Repairs to Sewage Pump Station, Project 17-48, is funded with \$1,000,000 from Wastewater Capacity Fees. There is approximately \$818,000 remaining in the project, which is sufficient for the recommended action. The recommended amendment increases the not-to-exceed total contract amount from \$120,000 to \$265,000.

ALTERNATIVES

1. Do not approve the recommended amendment for additional design work.
2. Provide other direction.

PUBLIC NOTICING – Agenda posting.

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TST-LA/TS/2/CAM
943-11-13-18CR-3

Attachment: 1. Schaaf & Wheeler – Additional Improvements Design Proposal

cc: APWD – Solomon, PCE – Au, USM, SCE – Tseng, SMA – Goedicke, AAI – Doan,
PA – Li, File