

# Design and Engineering Services for Water Main Replacement for the Town of Hillsborough

## Hillsborough, CA



As part of EKI's On-Call/As-Needed Services for the Town of Hillsborough (Town), EKI provided design and engineering services during construction of the Town's Ralston Avenue Pepper Avenue Water Main Replacement Project. The Project replaced approximately 2,100 linear feet of existing 10-inch diameter ductile iron pipeline with a new 12-inch PVC pipeline. The Project was challenging due to the presence of numerous existing water, storm drainage, and sewer utilities, including three 60-inch diameter reinforced concrete pipelines owned by the San Francisco Public Utilities Commission (SFPUC). In addition, all work was located within residential neighborhoods and included transferring existing residential water services. EKI conducted the following:

- Prepared all technical design documents including opinions of probable cost, specifications, and drawings.
- Led the effort to consolidate the Project's water improvement design and construction documents with another consultant's sanitary sewer design documents for a separate sewer system hydraulic improvement project into a single bid package at the stage when the sewer project was competed and the water project was at 90 percent design level. The coordination went smoothly.
- Assisted client to obtain an agreement with SFPUC for work crossing three 60-inch SFPUC supply pipelines and replacement of the Town's SFPUC turnout.
- Provided engineering services during construction including review of submittals, site visits to address contractor issues, and support services to client and construction manager.
- Assisted the Town with proactive public outreach in advance of potential construction-related issues and supported the City Engineer during discussions with affected residents regarding a neighborhood construction issue that required a tailored solution.

The combined project was bid without issues and the construction was successfully completed.