

Construction Method: Pipe Bursting

Project: 19th Avenue Water Main Replacement

Location: Anchorage, Alaska



Job Scope:

- ❖ Feasibility Study
- ❖ Pipe Burst Design
- ❖ Determination of Heave Impacts to Adjacent Utilities
- ❖ Plans and Specification Preparation



Project Description:

Staheli Trenchless Consultants performed a feasibility assessment and design of pipe bursting 1,340 feet of 8-inch diameter cast iron pipe with 10-inch HDPE. This project was located in and adjacent to an active street right of way with multiple utility crossings and over 30 tie-ins to the new water line. Many of the utilities (including a gas main) crossed within 5 feet of the water line. Additionally, the water line crossed below the footing of a retaining wall.

STC reviewed the plan and profile sheets and the geotechnical information for the project, and visited the site to locate pulling and insertion pits. STC also evaluated the feasibility of pipe bursting and quantified the magnitude of potential movement to assess risk to adjacent utilities. Recommendations for type and size of pipe bursting equipment and preliminary construction schedule and cost were provided.



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