

Public Works Department

STAFF REPORT



SUBJECT: Belknap 6-Inch SS Rehab CIPP
MEETING: Regular Council Meeting - 5 Dec 2023
DEPARTMENT: Public Works
STAFF CONTACT: Nick Williams

RECOMMENDATION:

Staff recommends entering into a turnkey agreement with Insituform Technologies, LLC to fortify and protect the existing 6-inch clay sanitary sewer main under Belknap Avenue from Frey Street to Sloan Street.

BACKGROUND:

The existing sanitary sewer lines under Belknap are made of clay and show signs of cracking and deterioration.

PROJECT:

Due to the age, condition, and criticality of the existing 6-inch clay sewer line under Belknap Avenue, it is recommended to use Cured-In-Place-Pipe (CIPP) technology to fortify the line against failure. The CIPP slip lining process can be used to rehab the existing line without excavating and damaging adjacent utilities. CIPP will fuse to the inside of the existing pipe creating a structural pipe.

CIPP linings are thick, heavy, resin-impregnated liners that cure to a hard, structural finish, creating a pipe within a pipe.

FISCAL IMPACT SUMMARY:

The agreement proposes preparation of the line by cleaning and video inspection, installation of the polymer liner and bypass pumping to maintain the sewer flow within the line. Bonding, insurance, and a one-year warranty are also included. The project cost is \$140,600.00 and includes \$25,000.00 for point repairs and contingencies. The FY22-23 budget allocated 150,000 for this capital project.

ALTERNATIVES:

The following alternatives are provided for consideration:

1. Do not recommend approval of the agreement as presented; or
2. Recommend an alternate project or scope of work.

ADVANTAGES:

1. The CIPP work can be completed in one week and without full street excavation.
2. The CIPP method provides protection from damage to the existing line and adjacent utilities during construction.
3. The proposal is \$9,400 under the project allocated budget.

DISADVANTAGES:

No known disadvantages have been identified.

ATTACHMENTS:

[Insituform Technologies - Belknap 6-Inch SS Rehab CIPP Proposal](#)