



Legislation Text

File #: 2019-0107, **Version:** 1

Title
Crystal Tree Subdivision Water Main Lining - Proposal Award

History

Crystal Tree Subdivision was developed in the late 1980's. The water main that was installed during construction was a ductile iron pipe, which is still the standard for water main installation in the village. In the late 1990's ductile iron pipe manufacturers recommended a polyvinyl wrap when installing a new water main to prevent corrosion to the exterior of the pipe. Crystal Tree Subdivision has been prone to water main breaks due to deterioration of the ductile water main.

Two different methodologies of rehabilitation were explored: open cut and cured in place structural slip lining. Both methods offer positive and negative attributes. In 2009 2,632 feet of water main in Crystal Tree was replaced with PVC pipe. That replacement was completed in advance of the homeowners association planned street rehabilitation project. After evaluation, cured in place structural slip lining proved to be cost effective and the least invasive option. Staff recommends the use of a structural liner with the service connection mechanically connected to the liner. This process eliminates reliance on the host pipe which continues to deteriorate.

Based on available 2018 funding, Utility Division staff prioritized sections of main to be lined based upon quantity of water main breaks and overall main condition. Staff recommends Lake Ridge Road, Golf Road, and a portion of Hollow Tree Road. There would be a total of 2,555 linear feet of water main lined and fifty-nine 1" services reinstated. Additional water main is planned for lining with 2019 funds.

The request for proposals was advertised on November 8, 2018. A total of two hundred three (203) vendors were notified through BidNet and one (1) contractor was emailed directly with a notification of bid. Twenty four (24) companies downloaded the specifications. The proposal opening was conducted on December 5, 2018, and the village received three (3) proposals for consideration. Insituform Technologies USA, LLC of Chesterfield, Missouri submitted an amount of \$927,147.00. Michels Pipe Services, a division of Michels Corporation of Brownsville, Wisconsin submitted an amount of \$848,040.00. Fer-Pal Construction USA LLC, of Elgin, Illinois submitted an amount of \$679,127.50.

Utility Division staff met with each of the firms to evaluate their product and process. Both Insituform Technologies and Fer-Pal meet the specification provided. Michels Pipe service provides a structural liner, but does not meet the requirement for mechanical service connection. Their process still relies on the host pipe for maintaining the service connections. The village has previously used Fer-Pal for the Maycliff water main lining project in 2015. Staff recommends accepting the proposal submitted by Fer-Pal Construction USA, LLC of Elgin, Illinois for the Crystal Tree Water Main Lining project in the amount of \$739,127.50 (\$679,127.50 plus \$60,000.00 contingency).

On February 18, 2019 this item was reviewed by the Public Works Committee and recommended for approval and referred to the Village Board of Trustees for consideration.

Financial Impact

Funds for this project are available in the 2018 water capital account that will be rolled into the 2019 water capital account, 031-6002-470500.

Recommended Action/Motion

I move to approve accepting the proposal from Fer-Pal Construction USA, LLC, of Elgin, Illinois in the amount of \$739,127.50 (\$679,127.50 plus \$60,000.00 contingency).