

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P.Eng., MBA, FEC
Deputy City Manager, Environment and Infrastructure

Subject: Request for Proposal RFP-2022-271 Contract Award of 2023
Cured in Place Pipe (CIPP) Sewer Lining Program

Date: January 10, 2023

Recommendation

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to Request for Proposal RFP-2022-271 for the 2023 Cured in Place Pipe (CIPP) Sewer Lining Program:

- a) The bid submitted by Insituform Technologies Ltd at the tendered price of \$5,808,074.00 (HST excluded), **BE ACCEPTED**, it is noted that the bid submitted by Insituform Technologies Limited was the only bid that met the technical criteria and City's specifications and requirements in all areas;
- b) the financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- d) the approval given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract, or issuing a purchase order for the material to be supplied and the work to be done, relating to this project; and
- e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Executive Summary

Purpose

The purpose of this report is to award the annual contract to supply and install Cured In Place Pipe (CIPP) as part of the sewer lining program.

Context

The City of London uses trenchless sewer repairs, where appropriate, to repair damaged sewers without having to perform open cut construction. CIPP repairs involve inserting a resin filled felt or fiberglass tube into a sewer, inflating the tube and adding heat (via steam or hot water) or UV light to cure the resin. Once the resin cures, the tube has formed into a tight-fitting pipe within a pipe. The result is a "new" sewer with a life expectancy of 50+ years.

Linkage to the Corporate Strategic Plan

The following report supports the 2019 – 2023 Strategic Plan through the strategic focus area of Building a Sustainable City:

- London's Infrastructure is built, maintained and operated to meet the long-term needs of our community;
- London's growth and development is well planned and sustainable over the long term.

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

- CWC – July 26, 2022 - Request for Proposal RFP2022-120 Contract Award of 2022 Sewer Lining (CIPP)
- CWC – November 2, 2021 – Request for Proposal 21-56 Contract Award of 2021 Supply and Installation of Cured-in-place-pipe Sewer Liners
- CWC – November 17, 2020 – Request for Proposal 20-59 Contract Award of 2020 Cured in Place Pipe (CIPP) Sewer Lining Program
- CWC – November 19, 2019 – Request for Proposal 19-45 Contract Award of 2019 Cured in Place Pipe (CIPP) Sewer Lining Program

2.0 Discussion and Considerations

2.1 Work Description

The City of London's annual sewer lining program uses trenchless technologies to reinstate and extend the life of existing storm and sanitary sewer infrastructure. This program avoids the large capital costs of open cut construction by using cost effective trenchless technology. The installation of a liner can be completed in several days as compared to months for open cut repairs which greatly reduces the social impact and cost.

The City of London began installing full length sewer lining repairs in 1989. Beginning in the late 1990s, the sewer lining program was expanded and became an important part of London's capital renewal strategy. Since 2007, there have been 245 km of liners installed through the annual CIPP lining program.

The 2023 program consists of approximately 7 km of storm and sanitary sewer lining along various streets throughout the city with pipe sizes ranging from 200mm to 1,050mm. Some of the large diameter sanitary sewers will require flow bypass to accommodate the lining. Sewers to be lined in 2023 include:

- 596m of trunk sanitary sewer along Ann Street, Talbot Street, and Oxford Street (900mm diameter sanitary sewer).
- 548m of sanitary and storm sewer along the Kimberley easement from Kimberley Avenue to Pond Mills Road (sanitary sewers are 250mm diameter and storm sewers range between 750mm and 1,050mm diameter).
- 5,921m of various sanitary and storm sewer with diameters ranging between 200mm and 600mm in various locations throughout the City of London.

3.0 Financial Impact/Considerations

3.1 Procurement Process

The selection of a firm for the 2023 Cured in Place Pipe (CIPP) Sewer Lining Program followed the Request for Proposal (RFP) procurement, in accordance with section 12 of the Procurement of Goods and Services Policy. The RFP process was chosen due to the technical considerations and experience necessary to successfully complete the structural sewer lining for trunk sanitary sewer. Strong methodologies for bypass pumping routes and spill protection plans were required, along with adequate project staging and traffic management plans. This RFP followed a 2 envelope process wherein firms had to achieve a minimum score of 70% on the technical component to pass.

Following public posting of the 2023 Cured in Place Pipe (CIPP) Sewer Lining Program, three proposal submissions were received and evaluated by the Environment and Infrastructure Department which included a technical and cost component. Two of the three submissions did not meet the technical score required. The proposal submitted by Insituform Technologies Limited was the highest scoring submission, in accordance with Section 12.0 of the Procurement of Goods and Services Policy. The submitted cost of \$5,808,074.00 is within the allotted budget.

All submissions include a contingency allowance of \$300,000.00. The value of this tender award is within the approved budget for the annual sewer relining program.

Conclusion

City staff have reviewed the proposal submissions and have recommended Insituform Technologies Limited be awarded the construction contact for the 2023 Cured in Place Pipe (CIPP) Sewer Lining Program.

The sewer lining program continues to be an important part of the City's sewer infrastructure renewal strategy. The ability to repair sewers with minimal above ground impact provides an opportunity to perform necessary repairs while limiting disruptions to the general public in an extremely cost effective manner.

Prepared by: Kyle Chambers, P.Eng
Division Manager, Sewer Engineering

Submitted by: Ashley M. Rammeloo, MSc., P.Eng
Director, Water, Wastewater, and Stormwater

Recommended by: Kelly Scherr, P. Eng., MBA, FEC
Deputy City Manager, Environment & Infrastructure

cc: Y.Clavet, C.Liu

Appendix 'A' – Sources of Financing

Appendix "A"

#23001

January 10, 2023
(Award Contract)

Chair and Members
Civic Works Committee

RE: RFP-2022-271 Contract Award of 2023 Cured in Place Pipe (CIPP) Sewer Lining Program
(Subledger WW230001)

Capital Project ES269320 - Sewer Relining

Capital Project ES269322 - Sewer Relining

Capital Project ES269323 - Sewer Relining

Insituform Technologies Limited - \$5,808,074.00 (excluding HST)

Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the recommendation of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing is:

Estimated Expenditures	Approved Budget	Committed To Date	This Submission	Balance for Future Work
ES269320 - Sewer Relining				
Construction	4,516,710	3,820,521	617,932	78,257
ES269322 - Sewer Relining				
Construction	4,718,592	4,258,066	460,526	0
ES269323 - Sewer Relining				
Construction	4,831,838	0	4,831,838	0
Total Expenditures	\$14,067,140	\$8,078,587	\$5,910,296	\$78,257

Sources of Financing

ES269320 - Sewer Relining				
Capital Sewer Rates	4,516,710	3,820,521	617,932	78,257
ES269322 - Sewer Relining				
Capital Sewer Rates	4,718,592	4,258,066	460,526	0
ES269323 - Sewer Relining				
Capital Sewer Rates	4,831,838	0	4,831,838	0
Total Financing	\$14,067,140	\$8,078,587	\$5,910,296	\$78,257

Financial Note:	ES269320	ES269322	ES269323	Total
Contract Price	607,244	452,561	4,748,269	5,808,074
Add: HST @13%	78,942	58,833	617,275	755,050
Total Contract Price Including Taxes	686,186	511,394	5,365,544	6,563,124
Less: HST Rebate	-68,254	-50,868	-533,706	-652,828
Net Contract Price	\$617,932	\$460,526	\$4,831,838	\$5,910,296

Jason Davies
Manager of Financial Planning & Policy

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