

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JANUARY 7, 2020
FROM:	KELLY SCHERR, P. ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEER FOR DETAILED DESIGN AND CONTRACT ADMINISTRATION FOR THE GORDON SANITARY TRUNK SEWER REHABILITATION PROJECT

RECOMMENDATION

That on the recommendation of the Managing Director, Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of a consulting engineer for the Gordon Sanitary Trunk Sewer Rehabilitation project:

- (a) Dillon Consulting Limited **BE APPOINTED** Consulting Engineers for the detailed design and contract administration at an upset amount of \$189,200.00 (excluding HST), in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (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 work to be completed; and
- (e) The Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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CWC Report of 2017-05-09: Gordon Trunk Sewer Rehabilitation Project No: ES2473, RFP No. 17-02.
CWC Report of 2014-06-16: Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473, RFP No. 14-26.
CWC Report of 2014-03-24: Appointment of Consulting Engineer Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473.
CWC Report of 2013-07-22: Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473, RFP No. 13-21 – Irregular Result.
CWC Report of 2013-03-18: Appointment of Consulting Engineer Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473.
BNE Report of 2011-07-18: Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473 RFP No. 11-24.
BNE Report of 2011-04-11: Appointment of Consulting Engineer Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473.
BOC Report of 2010-07-21: Gordon Sanitary Trunk Sewer Rehabilitation Project No: ES2473 RFP No. 10-20.
ETC Report of 2010-05-10: Appointment of Consulting Engineer Gordon Sanitary Trunk Sewer Rehabilitation Project No. ES2473
BOC Report of 2009-09-16: Life Cycle Repairs to Sewer System – South/Old South London, Gordon Trunk Sewer Rehabilitation Project No. ES2692-487/497, ES5140/ES3085.

2019-2023 STRATEGIC PLAN

The following report supports the 2019-2023 Strategic Plan through the strategic focus area of *Building a Sustainable City: Infrastructure is built, maintained, and operated to meet the long-term needs of our community.*

BACKGROUND

Purpose

The purpose of this report is to seek approval of engineering and contract administration services to complete the final phase of the multi-phase, Gordon Sanitary Trunk Sewer rehabilitation project. A location map is included for reference in Appendix 'B'.

Context

The Gordon Sanitary Trunk Sewer system is comprised of large diameter pipe that services a significant portion of the southern part of the City of London. Since 2009, several rehabilitation projects have taken place to renew this critical trunk sewer system. This consultant appointment will provide the engineering services required to complete pipe rehabilitation in two locations.

DISCUSSION

Constructed in the 1960's, this vital piece of sewer infrastructure has been damaged over the years by corrosion caused by hydrogen sulfide gas. Hydrogen sulfide gas is produced when organic material within the sewage breaks down. Years of exposure to hydrogen sulfide gas has resulted in the corrosion of the concrete sewer pipe and metal components within the adjoining maintenance hole structures.

Over the last decade, rehabilitation efforts on pipe sections and maintenance holes have taken place to mitigate harmful levels of hydrogen sulfide gas that have deteriorated the Gordon Sanitary Trunk Sewer system. Successful full pipe replacement and cured-in-place lining projects have taken place in an effort to fully rehabilitate the Gordon Sanitary Trunk Sewer system, with the first phase completed in 2009. There are two isolated sections remaining over the entire length of the Gordon Sanitary Trunk Sewer system requiring full rehabilitation.

This consultant assignment will include selecting the method of rehabilitation. The consultant will consider whether a trenchless technology is an option or whether the traditional open-cut replacement approach is more appropriate. This decision will be based on a number of considerations including the condition of the current pipe, depth of the pipe, proximity of adjacent utility services, and the resulting magnitude of surface (road, boulevard, or open space) restoration. The Gordon Sanitary Trunk Sewer conveys significant sewage flows. Special consideration must be given with respect to managing these flows appropriately, including the possibility of extensive and complex temporary bypass pumping.

Through a number of successfully completed rehabilitation projects on the Gordon Sanitary Trunk Sewer, Dillon has gained specific knowledge relating to this system's unique attributes. As such, it is recommended that Dillon continue their long-term work on this project and provide design engineering and contract administration services through the provisions of the Procurement of Goods and Services Policy. Approval of this recommendation will enable Dillon to commence immediately with a detailed design, undertake the production of engineering drawings and a tender document, initiate a competitive bidding process, recommend a qualified contractor and assume the role of contract administrator to ensure project objectives are met within prescribed budget limits and timelines.

APPENDIX 'A'

#20004

January 7, 2020

Chair and Members
Civic Works Committee

(Appoint Consulting Engineer)

**RE: Detailed Design and Contract Administration for the Gordon Sanitary Trunk Sewer Rehabilitation Project
(Subledger WW200002)
Capital Project ES3074 - Trunk Sewer Upgrades
Dillon Consulting Limited - \$189,200.00 (excluding H.S.T.)**

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

<u>SUMMARY OF ESTIMATED EXPENDITURES</u>	<u>Approved Budget</u>	<u>Committed to Date</u>	<u>This Submission</u>	<u>Balance for Future Work</u>
Engineering	\$350,000	\$44,717	\$192,530	\$112,753
Construction	1,450,000	170,531		1,279,469
NET ESTIMATED EXPENDITURES	<u>\$1,800,000</u>	<u>\$215,248</u>	<u>\$192,530</u> 1)	<u>\$1,392,222</u>
<u>SUMMARY OF FINANCING:</u>				
Capital Sewer Rates	\$1,300,000	\$215,248	\$192,530	\$892,222
Drawdown from Sewage Works Reserve Fund	500,000			500,000
TOTAL FINANCING	<u>\$1,800,000</u>	<u>\$215,248</u>	<u>\$192,530</u>	<u>\$1,392,222</u>

1) **Financial Note:**

Contract Price	\$189,200
Add: HST @13%	24,596
Total Contract Price Including Taxes	213,796
Less: HST Rebate	21,266
Net Contract Price	<u>\$192,530</u>

JG

Jason Davies
Manager of Financial Planning & Policy

APPENDIX B

LOCATION MAP

