

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: Appointment of Consulting Engineers for the Infrastructure
Renewal Program

Date: March 19, 2024

Recommendation

That on the recommendation of the Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the appointment of consulting engineers for the Infrastructure Renewal Program:

- (a) The following consulting engineers **BE APPOINTED** to carry out consulting services for the identified Infrastructure Renewal Program funded projects, at the upset amounts identified below, in accordance with the estimate on file, and in accordance with Section 15.2(g) of the City of London's Procurement of Goods and Services Policy:
 - (i) GM BluePlan Engineering Limited, **BE APPOINTED** consulting engineers to complete the resident inspection and contract administration for the 2024 Infrastructure Renewal Program Leonard Street and Second Street project in accordance with the estimate, on file, at an upset amount of \$358,072.00, including 10% contingency, excluding HST;
 - (ii) Spriet Associates London Limited, **BE APPOINTED** consulting engineers to complete the resident inspection and contract administration, including a detailed design fee increase, for the 2024-2025 Infrastructure Renewal Program Charles Street, West Lions Park and Paul Street project in accordance with the estimate, on file, at an upset amount of \$606,032.90, including 10% contingency, excluding HST; and
- (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; 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

The Infrastructure Renewal Program is an annual program intended to maintain the lifecycle and operation of municipal infrastructure at an acceptable level of service. The engineering consultants work with city staff to complete the Infrastructure Renewal Program projects to meet the challenging infrastructure lifecycle replacement needs. This report recommends the award of engineering consultant appointments for the resident inspection and contract administration for two projects which are part of the 2024-2025 Infrastructure Renewal Program. The engineering consulting work recommended in this report will support the reconstruction of an estimated \$9,400,000.00 of capital infrastructure.

Linkage to the Corporate Strategic Plan

This recommendation supports the following 2023-2027 Strategic Plan areas of focus:

- Climate Action and Sustainable Growth:
 - The infrastructure gap is managed for all assets;
 - London’s infrastructure is built, maintained, and secured to support future growth and protect the environment;

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

- Civic Works Committee – June 19, 2018, Appointment of Consulting Engineers for the Infrastructure Renewal Program, Recommendation b).
- Civic Works Committee – June 21, 2022, Appointment of Consulting Engineers for the Infrastructure Renewal Program, Recommendation a) (iv).

2.0 Discussion and Considerations

2.1 Work Description

The Infrastructure Renewal Program projects include watermain and sewer replacement, as well as restoration of areas disturbed by the construction activity. The scope of each project varies in length and depends on the infrastructure components requiring rehabilitation or replacement. Full road reconstruction will be part of the overall projects.

The following engineering assignments were previously awarded for detailed design and tender preparation. The limits for the two projects are identified as follows:

- GM BluePlan Engineering Limited completed the detailed design assignment for Leonard Street, from Burdick Place to Second Street, and Second Street, from south of Leonard Street to north of Pottersburg Creek. This project is the second phase of a multiphase area project to reroute a trunk sanitary sewer away from Pottersburg Creek.
- Spriet Associates London Limited completed the detailed design assignment for Charles Street, West Lions Park and Paul Street project. This project will reconstruct Charles Street, from Mount Pleasant Avenue to West Lions Park. Construction work will also occur through West Lions Park to Paul Street and at the Paul Street and Lorraine Avenue intersection. This project is the third phase of a multiphase area project to improve sanitary sewer and storm sewer servicing for the area.

Both projects are scheduled for construction commencement in 2024 with the construction tenders anticipated to be awarded through the Administrative Approval of Tender Acceptance/Contract Award (AATACA), which has an upset limit of \$6 Million. Location maps are provided for each project in Appendix ‘B’.

3.0 Financial Impact/Considerations

3.1 Consulting Engineer Services

3.1.1 Construction Administration

Due to the knowledge and positive performance on the detailed design assignments, each consultant was invited to submit a proposal to carry out the resident inspection and contract administration for their project. A summary of the fees is included in Table 1. All values include 10% contingency and exclude HST.

3.1.2 Detailed Design Fee Increase

During the detailed design process for the Charles Street, West Lions Park and Paul

Street project, significant changes to the original scope were triggered, which resulted in additional tasks for the engineering consultant, Spriet Associates London Limited, and their supporting sub-consultants. These tasks include but were not limited to work related to permitting applications, excess soils geotechnical work, stage 1 and 2 archeological work, and stormwater management control design effort.

The approval of this \$156,995.29 fee increase will bring the total detailed design engineering services for the Charles Street, West Lions Park and Paul Street from \$285,711.42 to a total upset amount of \$442,706.71, excluding HST.

Table 1: Summary of Project Assignments

Assignment	Consultant	Detailed Design Fee	Resident Inspection and Contract Administration Fee	Total Project Fee
Leonard Street and Second Street	GM BluePlan Engineering Limited	\$294,074.00	\$358,072.00	\$652,146.00
Charles Street, West Lions Park and Paul Street	Spriet Associates London Limited	\$442,706.71*	\$449,037.61	\$891,744.32

*Includes recommended detailed design fee increase.

Staff have reviewed the fee submissions, including the time allocated to each project task, along with hourly rates provided by each of the consultant’s staff members. The submissions were found to be consistent with other project assignments of similar scope. The continued use of the identified consultant on each project for resident inspection and contract administration is of financial advantage to the City because the firm has specific knowledge of the project and has undertaken work for which duplication would be required if another firm were to be selected.

In addition to the financial advantage, there are also accountability and risk reduction benefits. The City requires a Professional Engineer to seal all construction drawings. These ‘record drawings’ are created based on field verification and ongoing involvement by the Professional Engineer. This requirement promotes consultant accountability for the design of these projects, and correspondingly, reduces the City’s overall risk exposure. Consequently, the continued use of the consultant who created and sealed the design drawings is required in order to maintain this accountability process and to manage risk.

In accordance with Section 15.2 (g) of the City of London’s Procurement of Goods and Services Policy, civic administration is recommending that the engineering services associated with the resident inspection and contract administration services be awarded to ensure that the City receives the product specified and associated value.

Funds have been budgeted in the Water, Sewer, and Transportation capital budgets to support the engineering work for the projects as identified in Appendix ‘A’, ‘Sources of Financing’.

Conclusion

Replacing infrastructure at the end of its lifecycle and protecting existing infrastructure is essential to building a sustainable city. The recommended engineering consultant assignments will allow the construction projects to be completed in the best financial and technical interests of the City. All the firms recommended through this engineering consultant appointment have shown their competency and expertise with infrastructure replacement projects of this type. It is recommended that Spriet Associates London Limited and GM BluePlan Engineering Limited continue as the consulting engineers on

their respective projects for the purpose of resident inspection and contract administration services in accordance with Section 15.2(g) of the City of London's Procurement of Goods and Services Policy.

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

Submitted by: **Ashley Rammeloo, MMSc, P.Eng.**
Director, Water, Wastewater, and Stormwater

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

cc: D. Gough, K. Johnson, A. Rozentals

Appendix 'A' – Sources of Financing

Appendix 'B' – Location Maps

Appendix "A"

#24044

March 19, 2024
(Award Contract)

Chair and Members
Civic Works Committee

RE: Appointment of Consulting Engineers for the Infrastructure Renewal Program
Capital Project ES241424 - Infrastructure Renewal Program - Sanitary Sewers
Capital Project ES254024 - Infrastructure Renewal Program - Stormwater Sewers and Treatment
Capital Project EW376524 - Infrastructure Renewal Program - Watermains
GM BluePlan Engineering Limited - \$358,072.00 (excluding HST) (Subledger WS23C00D)
Spriet Associates London Limited - \$606,032.90 (excluding HST) (Subledger WS20C011)

Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this purchase can be accommodated within the financing available for it in the Capital Budget and 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
ES241424 - Infrastructure Renewal Program - Sanitary Sewer				
Engineering	2,000,000	0	553,955	1,446,045
Construction	13,445,971	0	0	13,445,971
City Related Expenses	25,000	0	0	25,000
ES241424 Total	15,470,971	0	553,955	14,917,016
ES254024 - Infrastructure Renewal Program - Stormwater Sewers and Treatment				
Engineering	2,000,000	0	382,583	1,617,417
Construction	11,083,589	0	0	11,083,589
City Related Expenses	100,000	0	0	100,000
ES254024 Total	13,183,589	0	382,583	12,801,006
EW376524 - Infrastructure Renewal Program - Watermains				
Engineering	44,536	0	44,536	0
Construction	21,243,132	509,595	0	20,733,537
EW376524 Total	21,287,668	509,595	44,536	20,733,537
Total Expenditures	\$49,942,228	\$509,595	\$981,074	\$48,451,559

Sources of Financing	Approved Budget	Committed To Date	This Submission	Balance for Future Work
ES241424 - Infrastructure Renewal Program - Sanitary Sewer				
Capital Sewer Rates	2,500,250	0	553,955	1,946,295
Drawdown from Sewage Works Renewal Reserve Fund	10,720,721	0	0	10,720,721
Canada Community-Building Fund	2,250,000	0	0	2,250,000
ES241424 Total	15,470,971	0	553,955	14,917,016
ES254024 - Infrastructure Renewal Program - Stormwater Sewers and Treatment				
Capital Sewer Rates	1,000,000	0	382,583	617,417
Drawdown from Sewage Works Renewal Reserve Fund	9,933,589	0	0	9,933,589
Canada Community-Building Fund	2,250,000	0	0	2,250,000
ES254024 Total	13,183,589	0	382,583	12,801,006
EW376524 - Infrastructure Renewal Program - Watermains				
Capital Water Rates	10,865,981	509,595	44,536	10,311,850
Drawdown from Water Works Renewal Reserve Fund	8,996,687	0	0	8,996,687
Canada Community-Building Fund	1,425,000	0	0	1,425,000
EW376524 Total	21,287,668	509,595	44,536	20,733,537
Total Financing	\$49,942,228	\$509,595	\$981,074	\$48,451,559

Financial Note	ES241424	ES254024	EW376524	Total
Contract Price - GM BluePlan Engineering Limited.	\$276,249	\$71,022	\$10,801	\$358,072
Contract Price - Spriet Associates London Limited	\$268,125	\$304,944	\$32,965	\$606,033
Add: HST @13%	70,769	48,876	5,690	125,334
Total Contract Price Including Taxes	615,143	424,842	49,455	1,089,439
Less: HST Rebate	-61,188	-42,259	-4,919	-108,365
Net Contract Price	\$553,955	\$382,583	\$44,536	\$981,074

Jason Davies

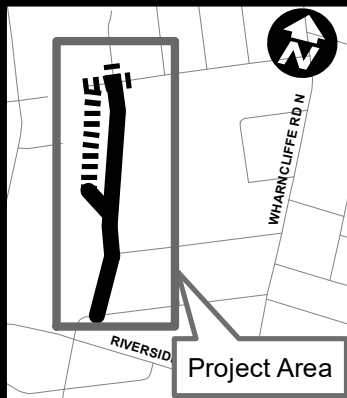
Manager of Financial Planning & Policy

mp

APPENDIX 'B'



LOCATION MAP



2024/2025 Infrastructure Renewal Program

Charles Street from Mount Pleasant Avenue to West Lions Park
 West portion of Lions Park
 Paul Street from west limit to approximately 50m east of Lorraine Avenue
 Lorraine Avenue from Paul Street to approximately 40m north of Paul Street

Construction Year

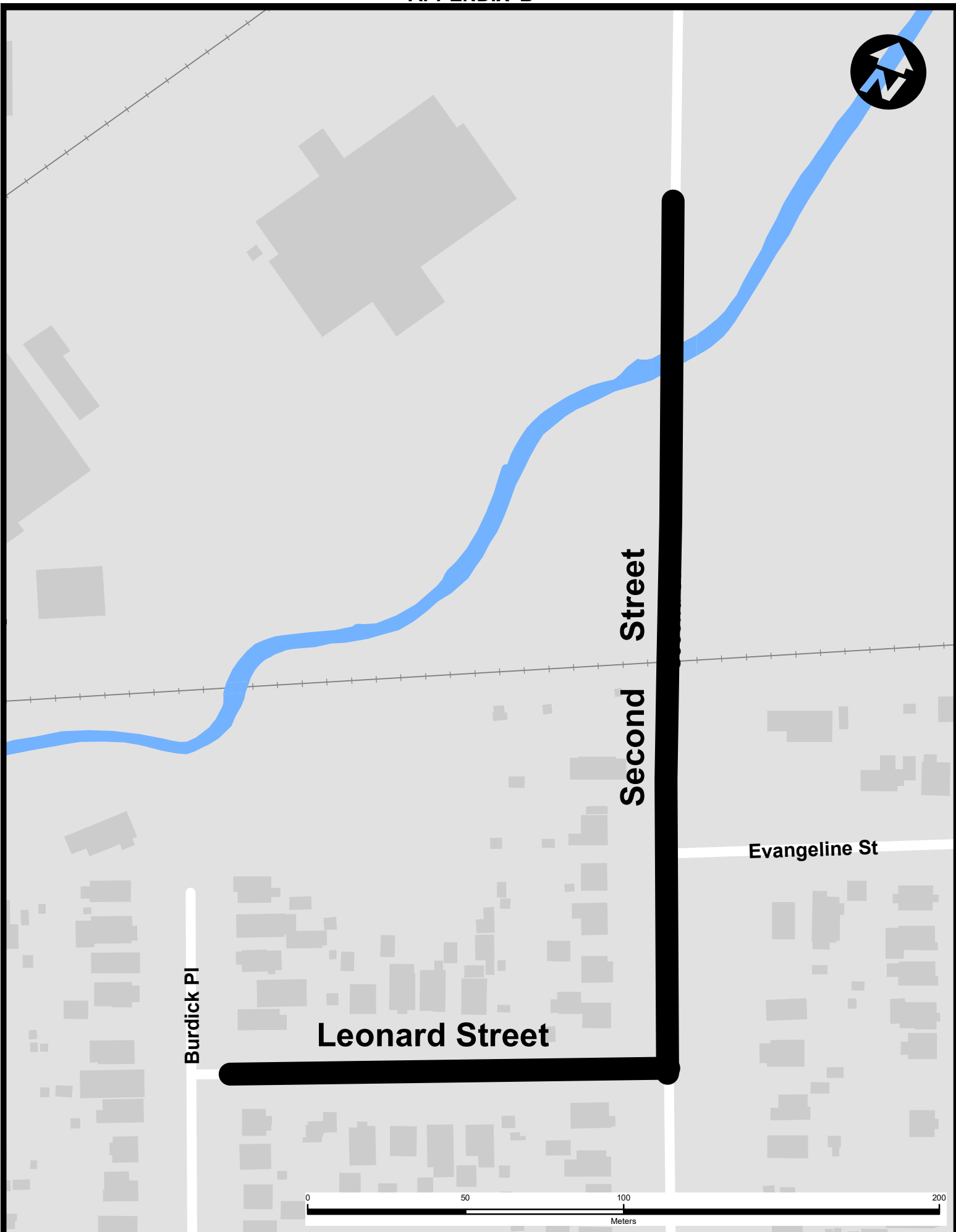
-  2024
-  2025

Map Produced by
 the Sewer
 Engineering
 Division
 January 31, 2024 CM

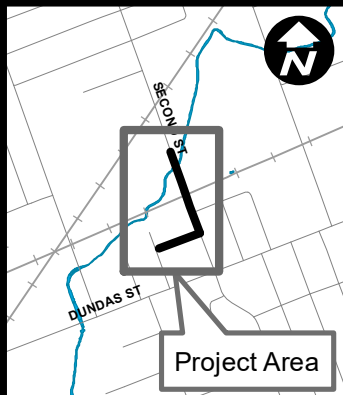


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APPENDIX 'B'



LOCATION MAP




2024 Infrastructure Renewal Program

Leonard Street from Burdick Place to Second Street
Second Street from Leonard Street to north of Pottersburg Creek

Map Produced by
the Sewer
Engineering
Division
February 15, 2024 CM



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 Approximate Project Limits