

## 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:** July 18, 2023

## 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(e) of the City of London's Procurement of Goods and Services Policy:
  - (i) Development Engineering (London) Limited **BE APPOINTED** consulting engineers to complete the pre-design, and detailed design of Contract 1, Florence Street from Eleanor Street to Ashland Avenue, and Eleanor Street from Dundas Street to Frances Street reconstruction, in the total amount of \$354,937.00 (including contingency), excluding HST;
  - (ii) Stantec Consulting Ltd. **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of Contract 3, Cavendish Crescent East reconstruction, and Greenway low level trunk sanitary sewer relocation, in the total amount of \$767,672.40 (including contingency), excluding HST;
  - (iii) Archibald, Gray & McKay Engineering Ltd. **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of Contract 7, Sterling Street from Oxford Street East to Salisbury Street, Salisbury Street from Sterling Street to Quebec Street, and Mornington Avenue from Sterling Street to Quebec Street reconstruction, in the total amount of \$294,800.00 (including contingency), excluding HST;
- (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 purpose of this report is to award engineering consultant appointments for the Infrastructure Renewal Program. These consultant appointments will lead to infrastructure construction projects in 2024 and 2025. A detailed project information list, including timing and project limits, is contained in Appendix 'B'. Project location maps are contained in Appendix 'C'.

The Infrastructure Renewal Program is an annual program intended to maintain the lifecycle and operation of municipal infrastructure at an acceptable performance level. The engineering consultants work with city staff to complete the Infrastructure Renewal

Program projects and meet the challenging infrastructure lifecycle replacement needs. The engineering consulting work recommended within this report will support the reconstruction of an estimated \$18,000,000 of capital infrastructure.

It is noted that this is the first round of Infrastructure Renewal Program projects to be released this year. It is anticipated that there will be an additional two rounds of projects released this year.

## **Linkage to the Corporate Strategic Plan**

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

- Mobility and Transportation:
  - Londoners can move around the city safely and easily in a manner that meets their needs by incorporating cycling infrastructure and safety enhancements.
- Climate Action and Sustainable Growth:
  - The infrastructure gap is managed for all assets; and
  - London's infrastructure is built, maintained, and secured to support future growth and protect the environment; and
  - London has a strong and healthy environment by incorporating stormwater management quantity and quality controls to protect downstream waterways, wetlands, watersheds and natural areas.

## **Analysis**

### **1.0 Background Information**

#### **1.1 Previous Reports Related to this Matter**

- CWC – May 28, 2018 – Revised Grouped Consultant Selection Process.

### **2.0 Discussion and Considerations**

#### **2.1 Work Description**

The Infrastructure Renewal Program projects include watermain and sewer replacement/repairs, 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 projects.

The City infrastructure design groups within each service area work closely together to co-ordinate infrastructure repair, rehabilitation and replacement. City staff prepare a list of the highest priority projects, taking into consideration condition assessment, capacity, criticality of the infrastructure link, and the safety and social impacts should the infrastructure link fail. City staff meet regularly throughout the year to co-ordinate their respective work, with the goal of aligning construction projects so more than one infrastructure element can be renewed, which significantly reduces social disruption and saves on construction costs. Design work starts early in the budget cycle, which allows projects to tender early in the season, so the most competitive construction pricing can be realized.

This report recommends the appointment of engineering consultants for three engineering assignments as identified in Appendix 'B'. All of the projects are scheduled for construction in 2024 and 2025. The proposed construction year and physical limits of the project assignments are summarized in Appendix 'B', and a location map is provided for each project in Appendix 'C'.

The following project information is of particular interest:

- Contract 1 – Florence Street and Eleanor Street reconstruction will result in the removal of 459.4 metres of combined sewer;
- Contract 3 – Cavendish Crescent East reconstruction and Greenway low level trunk sanitary sewer relocation is an important first step in the establishment of the West London Dyke extension. The project will relocate the existing Greenway trunk sanitary sewer into a new alignment that will not conflict with the location and construction of the new dyke wall; and
- Contract 7 – Sterling Street, Salisbury Street and Mornington Avenue reconstruction will result in the removal of 258.7 metres of combined sewer.

Funds have been budgeted in the water and sewer capital budgets to support the engineering work for the projects identified in Appendix 'A', 'Sources of Financing'. The design and construction administration fees for the new projects, recommended for approval in this report, are summarized in Table 1 below. All values below include 10% contingency and exclude HST.

Table 1: Summary of Project Assignments

<b>Contract</b>	<b>Street(s)</b>	<b>Consultant</b>	<b>Design Fee</b>	<b>Construction Administration Fee</b>	<b>Total Fee</b>
1	Florence Street and Eleanor Street	Development Engineering (London) Limited	\$354,937.00	-	\$354,937.00
3	Cavendish Crescent East and Greenway low level trunk sanitary sewer relocation	Stantec Consulting Ltd.	\$391,783.97	\$375,888.43	\$767,672.40
7	Sterling Street, Salisbury Street, and Mornington Avenue	Archibald, Gray & McKay Engineering Ltd.	\$294,800.00	-	\$294,800.00

### 3.0 Financial Impact/Considerations

#### 3.1 Procurement Process

The engineering consultant selection procedure for the Infrastructure Renewal Program utilized a grouped consultant selection process developed in partnership with the Financial Services - Purchasing and Supply Division, subsequently approved by Council June 12, 2018 and is used for all Infrastructure Renewal Program consultant appointments. This two-stage grouped procurement process is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy.

The first stage of the process is an open, publicly advertised Request for Qualifications. Statement of Qualifications submissions were received from a province wide group of nineteen prospective consultants. The Statement of Qualifications were evaluated by the Environmental Engineering Services Department resulting in a short-list group of fifteen engineering consulting firms.

The second stage of the process is a competitive Request for Proposal. Consultants from the short listed group are invited to submit a formal proposal to undertake a specific engineering assignment. Three consultants were invited to submit a proposal for each of the identified project assignments.

An evaluation of the proposals was undertaken by the Environment and Infrastructure Department including both a technical and cost component. Engineering consultants are

recommended based on their knowledge and understanding of project goals, their experience on directly related projects, their project team members, capacity and qualifications, and overall project fee.

The construction administration fee portion of the engineering consultant assignments is included for those projects of lower complexity, and for projects where construction administration fees can be reasonably estimated prior to the start of the design. Including construction administration fees as part of the initial consultant assignment reduces the number of required reports to committee and reduces the time required to award the final construction contract.

## **Conclusion**

Replacing infrastructure at the end of its lifecycle is essential to building a sustainable city. The recommended engineering consultant assignments for the Infrastructure Renewal Program are another step forward in replacing London's aging infrastructure. The projects discussed within this report have been identified as high priority due to the age, poor condition and associated risk of failure associated with the infrastructure.

All the firms recommended through this engineering consultant appointment have shown their competency and expertise with infrastructure replacement projects of this type.

**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' – Project Information List

Appendix 'C' – Location Maps

**Appendix "A"**

#23148

July 18, 2023

(Appoint Consulting Engineers)

Chair and Members

Civic Works Committee

RE: Appointment of Consulting Engineers for the Infrastructure Renewal Program

(Subledger WS24C001) Florence Street and Eleanor Street

(Subledger WS20C011) Cavendish Crescent East

(Subledger WS24C007) Sterling Street, Salisbury Street and Mornington Avenue

Capital Project EW376523 - Infrastructure Renewal Program - Watermains

Capital Project ES241423 - Infrastructure Renewal Program - Sanitary Sewers

Capital Project ES254023 - Infrastructure Renewal Program - Stormwater Sewers & Treatment

Development Engineering (London) Limited - \$354,937.00 (excluding HST) - Florence Street and Eleanor Street

Stantec Consulting Ltd. - \$767,672.40 (excluding HST) - Cavendish Crescent East

Archibald, Gray & McKay Engineering Ltd.- \$294,800.00 (excluding HST) - Sterling Street, Salisbury Street, and Mornington Avenue

**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 Deputy City Manager, Environment and Infrastructure, the detailed source of financing is:

<b>Estimated Expenditures</b>	<b>Approved Budget</b>	<b>Committed To Date</b>	<b>This Submission</b>	<b>Balance for Future Work</b>
<b>EW376523 - Infrastructure Renewal Program - Watermains</b>				
Engineering	2,500,000	587,208	576,941	1,335,851
Construction	15,787,316	12,071,870	0	3,715,446
City Related Expenses	59	59	0	0
<b>EW376523 Total</b>	<b>18,287,375</b>	<b>12,659,137</b>	<b>576,941</b>	<b>5,051,297</b>
<b>ES241423 - Infrastructure Renewal Program - Sanitary Sewers</b>				
Engineering	2,000,000	2,162	432,707	1,565,131
Construction	11,287,878	3,300,204	0	7,987,674
City Related Expenses	25,000	0	0	25,000
<b>ES241423 Total</b>	<b>13,312,878</b>	<b>3,302,366</b>	<b>432,707</b>	<b>9,577,805</b>
<b>ES254023 - Infrastructure Renewal Program - Stormwater Sewers &amp; Treatment</b>				
Engineering	2,000,000	1,099,933	432,707	467,360
Construction	11,212,878	7,016,005	0	4,196,873
City Related Expenses	100,000	0	0	100,000
<b>ES254023 Total</b>	<b>13,312,878</b>	<b>8,115,938</b>	<b>432,707</b>	<b>4,764,233</b>
<b>Total Expenditures</b>	<b>\$44,913,131</b>	<b>\$24,077,441</b>	<b>\$1,442,355</b>	<b>\$19,393,335</b>

**Sources of Financing**

<b>EW376523 - Infrastructure Renewal Program - Watermains</b>				
Capital Water Rates	12,193,444	12,193,444	0	0
Drawdown from Water Works Renewal Reserve Fund	4,668,931	0	0	4,668,931
Canada Community-Building Fund	1,425,000	465,693	576,941	382,366
<b>EW376523 Total</b>	<b>18,287,375</b>	<b>12,659,137</b>	<b>576,941</b>	<b>5,051,297</b>
<b>ES241423 - Infrastructure Renewal Program - Sanitary Sewers</b>				
Capital Sewer Rates	8,812,878	3,302,366	432,707	5,077,805
Drawdown from Sewage Works Renewal Reserve Fund	2,250,000	0	0	2,250,000
Canada Community-Building Fund	2,250,000	0	0	2,250,000
<b>ES241423 Total</b>	<b>13,312,878</b>	<b>3,302,366</b>	<b>432,707</b>	<b>9,577,805</b>

**Appendix "A"**

#23148

July 18, 2023

(Appoint Consulting Engineers)

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(Subledger WS24C001) Florence Street and Eleanor Street

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Archibald, Gray & McKay Engineering Ltd.- \$294,800.00 (excluding HST) - Sterling Street, Salisbury Street, and Mornington Avenue

<b>Sources of Financing Continued</b>	<b>Approved Budget</b>	<b>Committed To Date</b>	<b>This Submission</b>	<b>Balance for Future Work</b>
<b>ES254023 - Infrastructure Renewal Program - Stormwater Sewers &amp; Treatment</b>				
Capital Sewer Rates	1,242,500	1,242,500	0	0
Drawdown from Sewage Works Renewal Reserve Fund	9,820,378	4,623,438	432,707	4,764,233
Canada Community-Building Fund	2,250,000	2,250,000	0	0
<b>ES254023 Total</b>	<b>13,312,878</b>	<b>8,115,938</b>	<b>432,707</b>	<b>4,764,233</b>
<b>Total Financing</b>	<b>\$44,913,131</b>	<b>\$24,077,441</b>	<b>\$1,442,355</b>	<b>\$19,393,335</b>

<b>Financial Note: (Excluding HST)</b>	<b>EW376523</b>	<b>ES241423</b>	<b>ES254023</b>	<b>Total Excluding HST</b>	<b>Total Including HST</b>
<b>Listed by Engineer and Contract</b>					
Development Engineering (London) Limited - Florence Street and Eleanor Street	141,975	106,481	106,481	354,937	361,184
Stantec Consulting Ltd. - Cavendish Crescent East	307,068	230,302	230,302	767,672	781,183
Archibald, Gray & McKay Engineering Ltd.- Sterling Street, Salisbury Street, and Mornington Avenue	117,920	88,440	88,440	294,800	299,988
<b>Total Per Capital Project (Excluding HST)</b>	<b>\$566,963</b>	<b>\$425,223</b>	<b>\$425,223</b>	<b>\$1,417,409</b>	<b>\$1,442,355</b>

<b>Financial Note: Charges per Capital Project</b>	<b>EW376523</b>	<b>ES241423</b>	<b>ES254023</b>	<b>Total</b>
Contract Price	\$566,963	\$425,223	\$425,223	\$1,417,409
Add: HST @13%	73,705	55,279	55,279	\$184,263
Total Contract Price Including Taxes	640,668	480,502	480,502	1,601,672
Less: HST Rebate	-63,727	-47,795	-47,795	-\$159,317
Net Contract Price	\$576,941	\$432,707	\$432,707	<b>\$1,442,355</b>

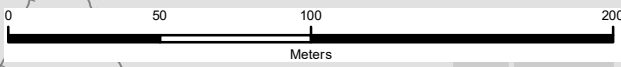
Jason Davies  
Manager of Financial Planning & Policy

lp

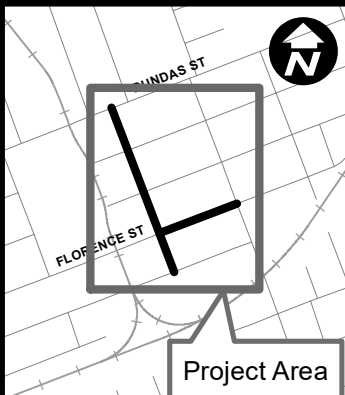
**Appendix 'B' - Project Information List**

Assignment	Consultant	Street	From	To	Length (m)	Construction Year
1	Development Engineering (London) Limited	Florence Street	Eleanor Street	Ashland Avenue	250	2025
		Eleanor Street	Dundas Street	Frances Street	460	2025
3	Stantec Consulting Ltd.	Cavendish Crescent East	Cavendish Crescent North	Wharncliffe Road North	515	2024
		Greenway low level trunk sanitary sewer relocation	Riverside Park	Mitchell A Baran Park	280	2024-2025
7	Archibald, Gray & McKay Engineering Ltd.	Sterling Street	Oxford Street East	Salisbury Street	490	2025
		Salisbury Street	Sterling Street	Quebec Street	125	2025
		Mornington Avenue	Sterling Street	Quebec Street	125	2025

APPENDIX 'C'




LOCATION MAP



Infrastructure Renewal Program

Florence Street from Eleanor Street to Ashland Avenue  
Eleanor Street from Frances Street to Dundas Street

 Approximate Project Limits

Map Produced by  
the Sewer  
Engineering  
Division  
June 15, 2023 CM



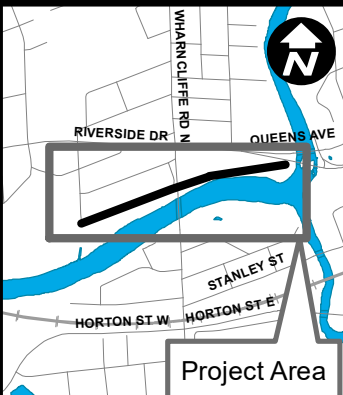
London  
CANADA  
300 Dufferin Avenue,  
PO Box 5035  
London, Ontario  
N6A 4L9  
www.London.ca



APPENDIX 'C'



LOCATION MAP




Infrastructure Renewal Program

Greenway Low Level Trunk Sanitary Sewer (GTSS) Realignment  
Cavendish Crescent (east-west) from Cavendish Crescent (north-south/west leg)  
to Mitchell A. Baran Park

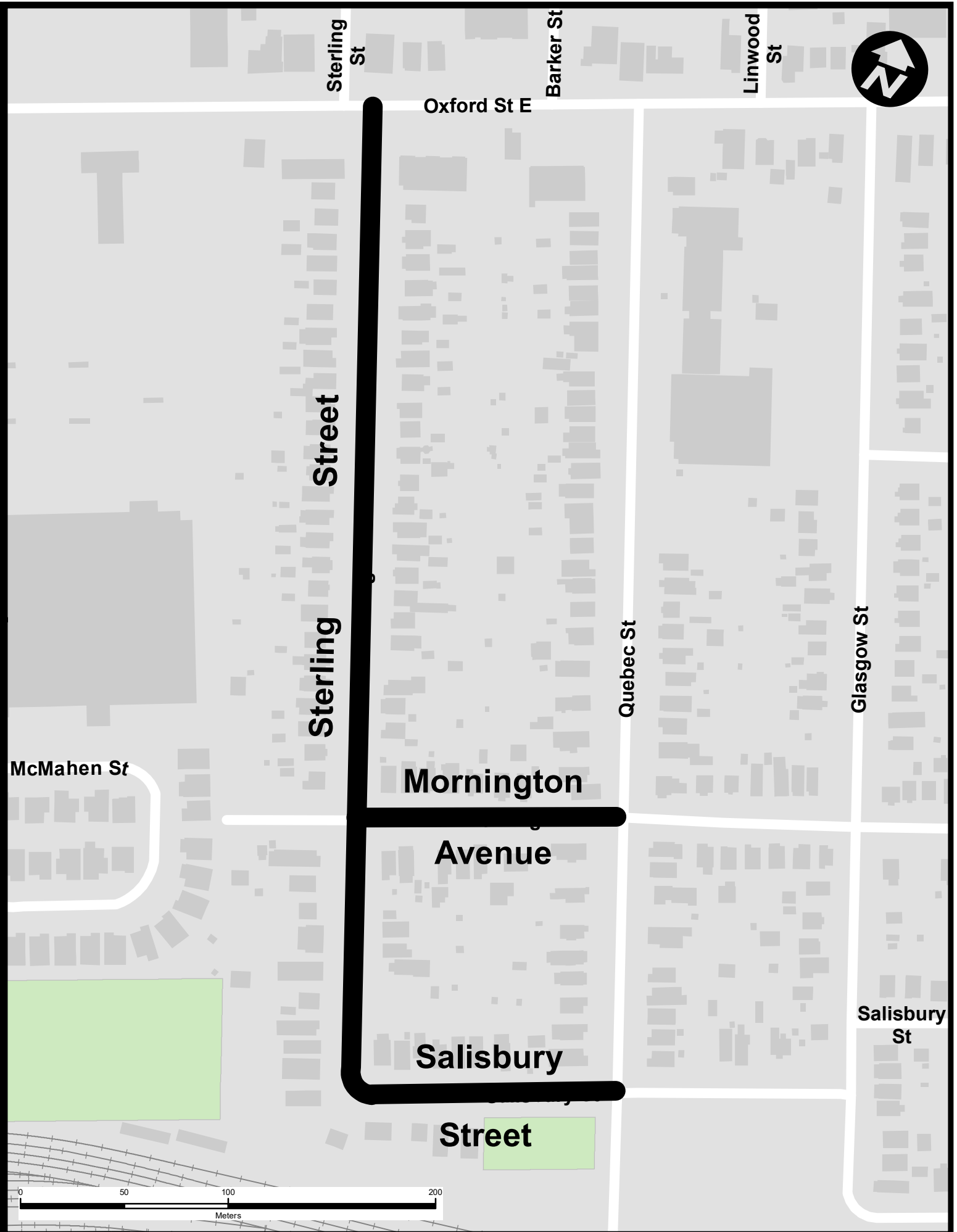
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 Approximate Project Limits

APPENDIX 'C'



LOCATION MAP




Infrastructure Renewal Program

Sterling Street from Oxford Street East to Salisbury Street  
Salisbury Street from Sterling Street to Quebec Street  
Mornington Avenue from Sterling Street to Quebec Street

Map Produced by  
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 Approximate Project Limits