

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON OCTOBER 20, 2020
FROM:	KELLY SCHERR, P. Eng., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEERS INFRASTRUCTURE RENEWAL PROGRAM

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 consulting engineers for the Infrastructure Renewal Program:

- a) The following consulting engineers **BE APPOINTED** to carry out consulting services for the identified 2022 and future Infrastructure Renewal Program 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) R.V. Anderson Associates Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the 2022 Infrastructure Renewal Program Assignment I, Labatt Trunk Sewer Siphon Replacement, in the total amount of \$208,813.00 (including contingency), excluding HST;
 - (ii) Development Engineering (London) Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of future Infrastructure Renewal Program Assignment J, Rhine Avenue from Wistow Street to Flanders Row, Flanders Row from Paardeberg Crescent to Rhine Avenue and Paardeberg Crescent from Rhine Avenue to Rhine Avenue, in the total amount of \$219,736.00 (including contingency), excluding HST;
 - (iii) R.V. Anderson Associates Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the future Infrastructure Renewal Program Assignment K, McKenzie Avenue from Wortley Road to Belgrave Avenue, Baker Street from Ridout Street to Belgrave Avenue, Windsor Avenue from Ridout Street to Belgrave Avenue and Belgrave Avenue from Baker Street to McKenzie Avenue, in the total amount of \$197,933.00 (including contingency), excluding HST;
 - (iv) GM BluePlan Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the future Infrastructure Renewal Program Assignment L, Whitehall Drive from Vancouver Street to Atkinson Boulevard in the total amount of \$149,688.00 (including contingency), excluding HST;
- c) the financing for the projects identified in (a) and (b) above **BE APPROVED** in accordance with the "Sources of Financing Report" attached, hereto, as Appendix 'A';
- d) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work;
- e) the approvals given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract with each consultant for the respective project; and
- f) 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

Infrastructure Renewal Program Design Assignments:

- Appointment of Consulting Engineers, Infrastructure Renewal Program – Civic Works Committee Meeting on July 14, 2020, Agenda Item #2.2; and
- Appointment of Consulting Engineers, Infrastructure Renewal Program – Civic Works Committee Meeting on September 22, 2020, Agenda Item #2.8.

2019 – 2023 STRATEGIC PLAN

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

- London’s infrastructure is built, maintained, and operated to meet the long-term needs of our community; and
- London has a strong and healthy environment.

BACKGROUND

Purpose

The purpose of this report is to award engineering consultant appointments for the Infrastructure Renewal Program. The Labatt Trunk Sewer Siphon Replacement project (Assignment I) is scheduled for construction in 2022 and will be funded through existing Infrastructure Renewal Program capital budgets. The other three projects presented (Assignments J, K, L) are being awarded to ensure the City has “shovel ready” projects to respond to opportunities for stimulus funding as they emerge. A detailed project list, including timing and limits, is contained in Appendix ‘B’. Maps are contained in Appendix ‘C’.

Context

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 \$14,600,000 of capital infrastructure.

DISCUSSION

Procurement Process: Infrastructure Renewal Program

The engineering consultant selection procedure for the 2021 Infrastructure Renewal Program utilized a grouped consultant selection process developed in partnership with the Purchasing and Supply Division, subsequently approved by Council June 12, 2018 and which will be used for all future 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 (RFQ). A Statement of Qualifications (SOQ) submission was received from a province wide group of 17 prospective consultants. The SOQ’s were evaluated by EESD resulting in a short-list group of 12 engineering consulting firms. This short list of twelve firms will be retained for a two year period (through this procurement period) at which time the RFQ process will be initiated again.

The second stage of the process is a competitive Request for Proposal exercise. Consultants from the short listed group are invited to submit a formal proposal to undertake a specific preferred engineering assignment identified by the consultant in their RFQ submission. Three consultants were invited to submit a proposal for each of the assignments and every consultant was invited to submit at least one proposal.

After an evaluation of the proposals undertaken by EESD including both a technical and cost component, engineering consultants were selected based on their knowledge and understanding of project goals, their experience on directly related projects and their project team members, capacity and qualifications.

The projects presented here are to be constructed in the future so construction administration fees were not requested at this time. The construction administration fees for these projects here will be awarded in a future Civic Works Committee report.

Work Description

The Infrastructure Renewal Program assignments include watermain and sewer replacement/repairs, as well as restoration of areas disturbed by construction activity. The scope of each project varies in length and depends on the infrastructure components requiring rehabilitation or replacement.

In some cases full road reconstruction, including traffic signal and street light replacement will be part of the overall project.

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.

This report recommends the appointment of engineering consultants for four engineering design appointments as identified in Appendix 'B'. The physical limits of the project assignments are summarized in Appendix 'B' and a location map is provided for each project in Appendix 'C'.

Funds have been budgeted in the current transportation, water and sewer capital budgets to support the engineering design work for the projects identified in Appendix 'A', "Sources of Financing Report". The design 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 – New Project Approval Summary

Assignment	Street	Consultant	Design Fee	Construction Admin Fee	Total Fee
2022 IRP* Assignment I	Labatt Trunk Sewer Siphon	RV Anderson	\$208,813.00	\$0	\$208,813.00
Future IRP Assignment J	Rhine Ave/ Flanders Row/ Paardeberg Cr	Development Engineering	\$219,736.00	\$0	\$219,736.00
Future IRP Assignment K	McKenzie Ave/ Windsor Ave/ Baker St/ Belgrave Ave	RV Anderson	\$197,933.00	\$0	\$197,933.00
Future IRP Assignment L	Whitehall Dr	GM BluePlan	\$149,688.00	\$0	\$149,688.00

* - Infrastructure Renewal Program

Federal/Provincial Funding Opportunities

Historically upper levels of government have introduced economic stimulus funding programs targeting municipal infrastructure replacement projects in an attempt to help revive a struggling economy. An economic stimulus funding program has not yet been announced, although the ongoing Covid-19 pandemic has had significant impact on the economy. The purpose of awarding these Infrastructure Renewal Program design appointments in advance of economic stimulus funding being announced is to produce three “shovel ready” projects that can be tendered for construction in short order. Economic stimulus programs are predicated on extremely tight timelines. By preparing these assignments early the City will be in a position to respond quickly to funding announcements. In the event economic stimulus funding programs are not announced, these consultant appointments will lead to future infrastructure renewal construction projects funded within existing Infrastructure Renewal Program budgets in the near future.

CONCLUSIONS

The Labatt Trunk Sewer Siphon replacement project is considered a critical infrastructure renewal project due to the ramifications of siphon failure as the existing siphon is nearing the end of its useful lifespan. Construction is planned for 2022 and will be funded through existing Infrastructure Renewal Program capital budgets.

Infrastructure Renewal Program Assignments J, K and L are being prepared in advance of possible economic stimulus funding programs from upper levels of government. Such funding programs have historically been announced during economic downturns, such as the downturn we are now experiencing due to the Covid-19 pandemic. The purpose of preparing these assignments before stimulus funding is announced is to be in a position to tender immediately saving valuable time as economic stimulus funding programs have historically included extremely tight construction timelines.

Replacing infrastructure at the end of its lifecycle is essential to building a sustainable city. The recommended engineering consultant appointments 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.

In the spirit of continuous improvement, the process for undertaking engineering consultant appointments will continue to evolve ensuring the City achieves the best value through a transparent, fair and competitive process. All the firms recommended through this engineering consultant appointment have shown their competency and expertise with infrastructure replacement projects of this type. The Infrastructure Renewal Program will continue to ensure high value and endeavour to achieve a consistently high degree of public satisfaction.

SUBMITTED BY:	SUBMITTED BY:
ASHLEY RAMMELOO, P. ENG. DIVISION MANAGER SEWER ENGINEERING DIVISION	AARON ROZENTALS, P.ENG. DIVISION MANAGER WATER ENGINEERING DIVISION
REVIEWED AND CONCURRED BY:	RECOMMENDED BY:
SCOTT MATHERS, MPA, P.ENG. DIRECTOR, WATER AND WASTEWATER	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER

AR/dh

Attach: Appendix 'A' – Sources of Financing
Appendix 'B' – Project Information List
Appendix 'C' – Location Maps

cc. John Freeman, Manager, Purchasing and Supply
Gary McDonald, Budget Analyst
RV Anderson, 557 Southdale Road E, Suite 200, N6E1A2
Development Engineering, 41 Adelaide St N, Unit 71, N6B 3P4
GM BluePlan, 235 North Centre Road, Suite 103, N5X 4E7

APPENDIX 'A'

#20145

Chair and Members
Civic Works Committee

October 20, 2020
(Appoint Consulting Engineers)

RE: Infrastructure Renewal Program

Capital Project ES241420 - Infrastructure Renewal Program - Sanitary Sewers

Capital Project ES254020 - Infrastructure Renewal Program - Stormwater Sewers & Treatment

Capital Project EW376520 - Infrastructure Renewal Program - Watermains

R.V. Anderson Associates Limited - \$208,813.00 (excluding H.S.T.) - Assignment I - (Subledger WS22C00I)

Development Engineering (London) Limited - \$219,736.00 (excluding H.S.T.) - Assignment J - (Subledger WS22C00J)

R.V. Anderson Associates Limited - \$197,933.00 (excluding H.S.T.) - Assignment K - (Subledger WS22C00K)

GM BluePlan Engineering Limited - \$149,688.00 (excluding H.S.T.) - Assignment L - (Subledger WS22C00L)

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:

SUMMARY OF ESTIMATED EXPENDITURES	Approved Budget	Committed to Date	This Submission	Balance for Future Work
ES241420 - IRP - Sanitary Sewers				
Engineering	\$2,972,516	\$2,586,825	\$385,691	\$0
Engineering (Utilities Share)	68,176	68,176		0
Construction	7,295,809	6,993,100		302,709
Construction (Utilities Share)	1,257,613	1,257,613		0
City Related Expenses	25,000			25,000
	<u>11,619,114</u>	<u>10,905,714</u>	<u>385,691</u>	<u>327,709</u>
ES254020 - IRP - Stormwater Sewers & Treatment				
Engineering	2,895,043	2,721,839	173,204	0
Construction	10,507,807	6,872,482		3,635,325
City Related Expenses	100,000	212		99,788
	<u>13,502,850</u>	<u>9,594,533</u>	<u>173,204</u>	<u>3,735,113</u>
EW376520 - IRP - Watermains				
Engineering	2,824,996	2,594,060	230,936	0
Construction	14,493,094	11,381,753		3,111,341
City Related Expenses	96	96		0
	<u>17,318,186</u>	<u>13,975,909</u>	<u>230,936</u>	<u>3,111,341</u>
NET ESTIMATED EXPENDITURES	<u>\$42,440,150</u>	<u>\$34,476,156</u>	<u>\$789,831</u>	<u>\$7,174,163</u>
SUMMARY OF FINANCING:				
ES241420 - IRP - Sanitary Sewers				
Capital Sewer Rates	\$5,642,540	\$5,642,540		\$0
Federal Gas Tax	4,650,785	3,937,385	385,691	327,709
Other Contributions (Utilities)	1,325,789	1,325,789		0
	<u>11,619,114</u>	<u>10,905,714</u>	<u>385,691</u>	<u>327,709</u>
ES254020 - IRP - Stormwater Sewers & Treatment				
Capital Sewer Rates	2,277,960	2,277,960		0
Drawdown from Sewage Works Reserve Fund	11,214,166	7,305,849	173,204	3,735,113
Other Contributions	10,724	10,724		0
	<u>13,502,850</u>	<u>9,594,533</u>	<u>173,204</u>	<u>3,735,113</u>
EW376520 - IRP - Watermains				
Capital Water Rates	10,753,000	10,753,000		0
Drawdown from Capital Water Reserve Fund	6,565,186	3,222,909	230,936	3,111,341
	<u>17,318,186</u>	<u>13,975,909</u>	<u>230,936</u>	<u>3,111,341</u>
TOTAL FINANCING	<u>\$42,440,150</u>	<u>\$34,476,156</u>	<u>\$789,831</u>	<u>\$7,174,163</u>
1) FINANCIAL NOTE: (EXCLUDING H.S.T.)		ES241420	ES254020	EW376520
Listed by Engineer and Contract				
R.V. Anderson Associates Limited - Assignment I		\$208,813		
Development Engineering (London) Limited - Assignment J		65,921	65,921	87,894
R.V. Anderson Associates Limited - Assignment K		59,380	59,380	79,173
GM BluePlan Engineering Limited - Assignment L		44,906	44,907	59,875
TOTAL PER CAPITAL PROJECT (EXCLUDING H.S.T.)		<u>\$379,020</u>	<u>\$170,208</u>	<u>\$226,942</u>
			TOTAL PER CONTRACT	
FINANCIAL NOTE: (EXCLUDING H.S.T.(continued))			Excluding HST	Incl. HST
Listed by Engineer and Contract				
R.V. Anderson Associates Limited - Assignment I			\$208,813	\$212,488
Development Engineering (London) Limited - Assignment J			\$219,736	223,603
R.V. Anderson Associates Limited - Assignment K			\$197,933	201,417
GM BluePlan Engineering Limited - Assignment L			\$149,688	152,323
TOTAL PER CAPITAL PROJECT (EXCLUDING H.S.T.)			<u>\$776,170</u>	<u>\$789,831</u>
2) Financial Note: (Charges per Capital Project)	ES241420	ES254020	EW376520	TOTAL
Contract Price	\$379,020	\$170,208	\$226,942	\$776,170
Add: HST @13%	49,273	22,127	29,502	100,902
Total Contract Price Including Taxes	428,293	192,335	256,444	877,072
Less: HST Rebate	42,602	19,131	25,508	87,241
Net Contract Price	<u>\$385,691</u>	<u>\$173,204</u>	<u>\$230,936</u>	<u>\$789,831</u>

Appendix 'B' – Project Information List

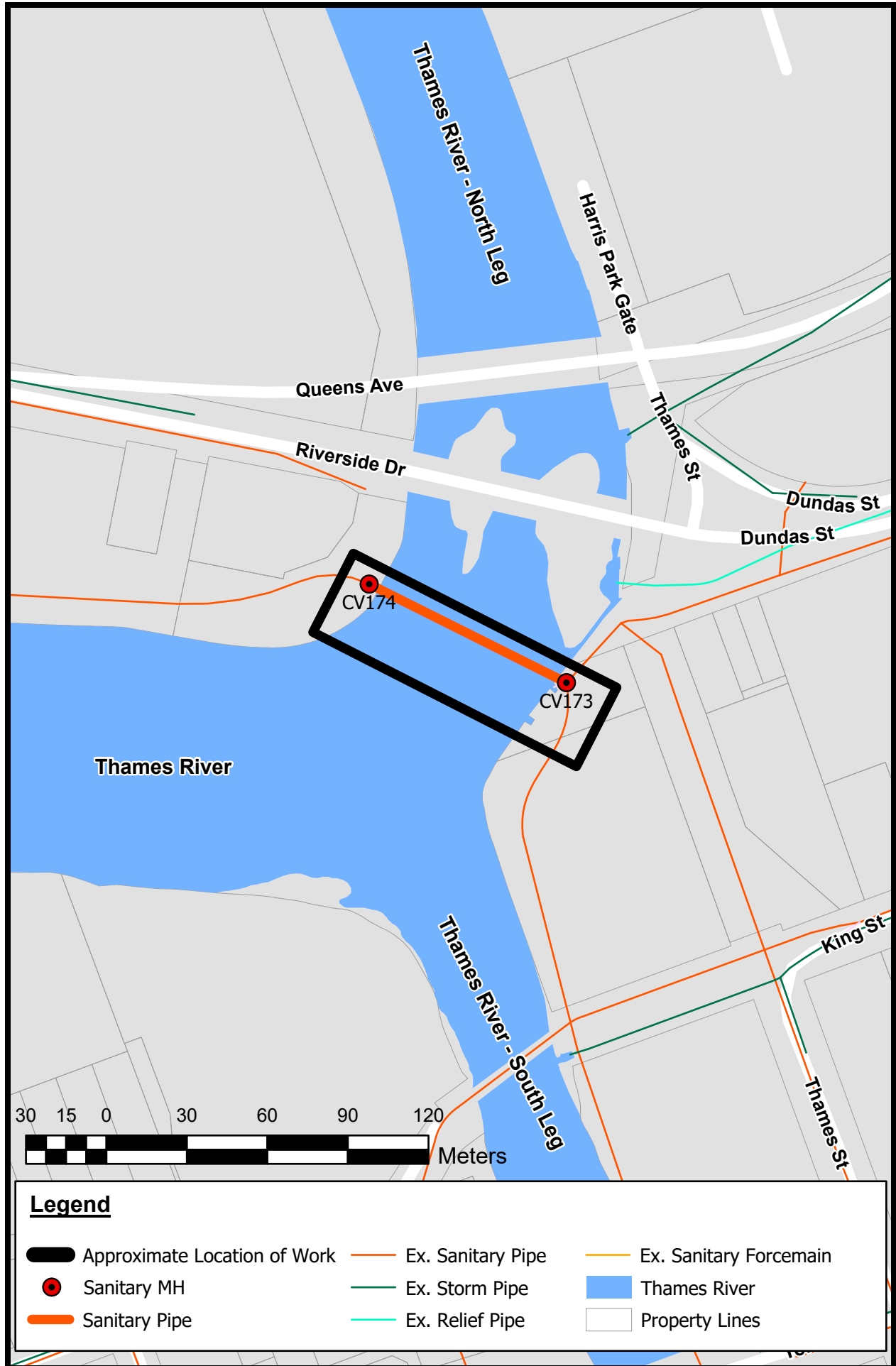
Future Infrastructure Renewal Program (IRP) Projects						
IRP Assignment	Consultant	Street	From	To	Length (m)	Anticipated Construction Year
I	RV Anderson Associates Ltd	Labatt Siphon Replacement	Ivey Park	Mitchell A. Baran Park	82	2022
J	Development Engineering (London) Ltd	Rhine Avenue	Wistow Street	Flanders Row	360	tbd
		Flanders Row	Paardeberg Crescent	Rhine Avenue	360	
		Paardeberg Crescent	Rhine Avenue	Rhine Avenue	390	
K	RV Anderson Associates Ltd	McKenzie Avenue	Wortley Road	Belgrave Avenue	540	tbd
		Baker Street	Ridout Street	Belgrave Avenue	250	
		Windsor Avenue	Ridout Street	Belgrave Avenue	250	
		Belgrave Avenue	McKenzie Ave	Baker Street	110	
L	GM BluePlan Engineering Ltd	Whitehall Drive	Vancouver Street	Atkinson Boulevard	490	tbd



2021/2022 Infrastructure Renewal Program Assignment I

London
CANADA

Labatt Sanitary Siphon Replacement between CV173 - CV174

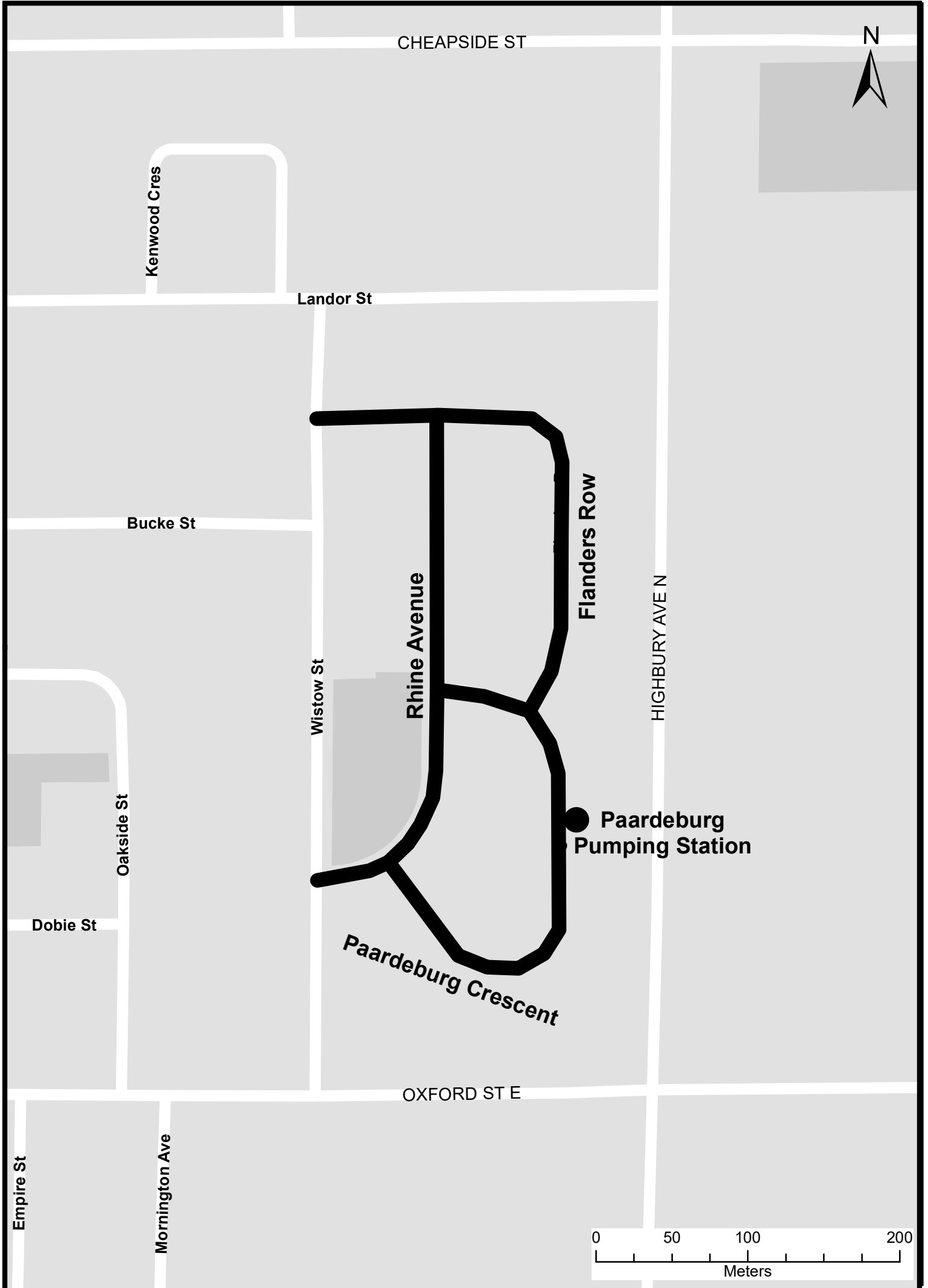




2021/2022 Infrastructure Renewal Program

Assignment J

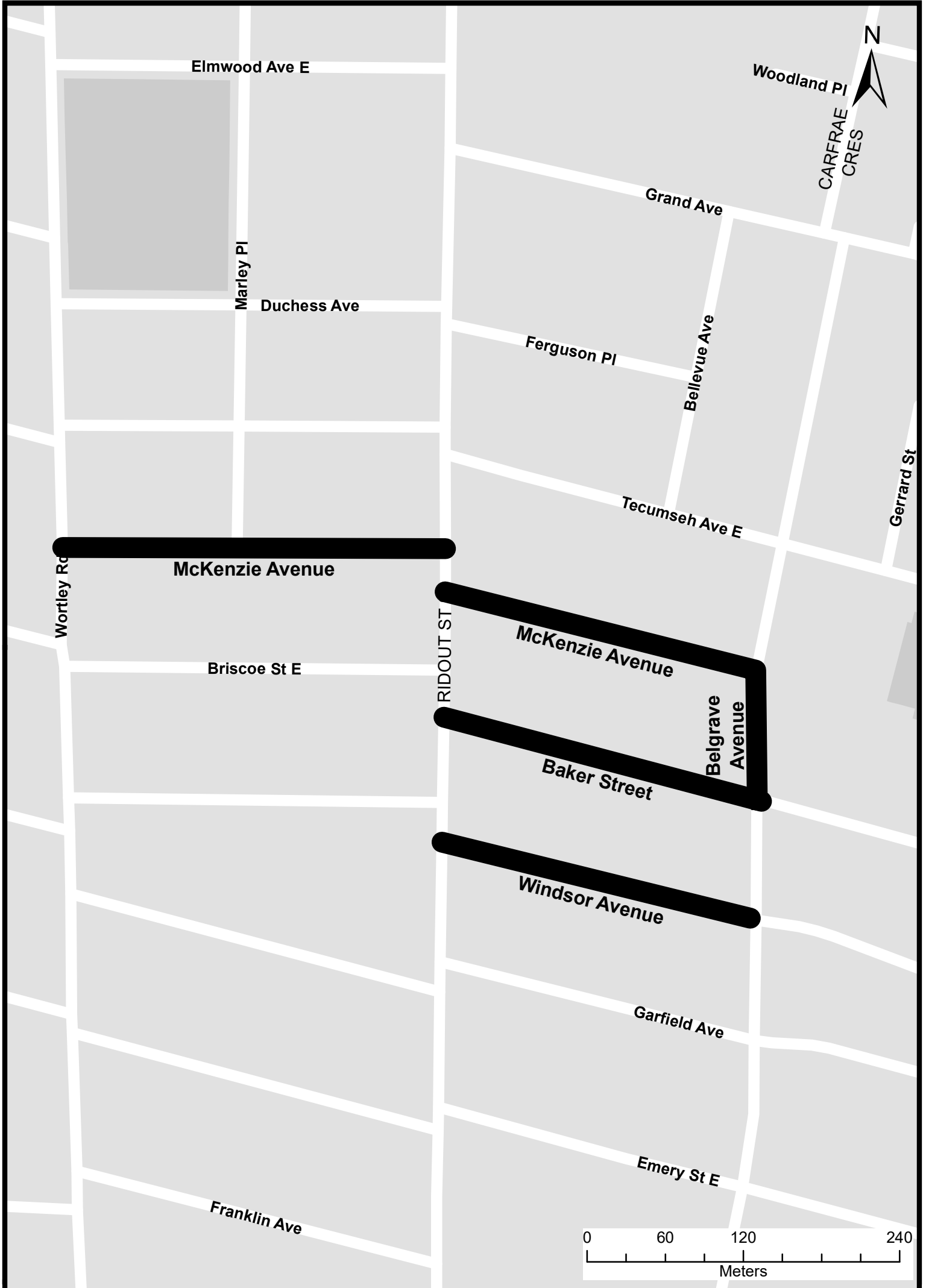
Paardeburg Crescent (all)
Flanders Row (all)
Rhine Avenue (all)





2021/2022 Infrastructure Renewal Program Assignment K

McKenzie Avenue from Wortley Road to Belgrave Avenue
Baker Street from Ridout Street to Belgrave Avenue
Windsor Avenue from Ridout Street to Belgrave Avenue
Belgrave Avenue from McKenzie Avenue to Baker Street





2021/2022 Infrastructure Renewal Program Assignment L

Whitehall Drive from Vancouver Street to Atkinson Boulevard

