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TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JUNE 2, 2015**
FROM:	**JOHN BRAAM, P. Eng. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**
SUBJECT:	**APPOINTMENT OF CONSULTING ENGINEERS INFRASTRUCTURE RENEWAL PROGRAM 2016 - 2017**

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of Consulting Engineers for the 2016-2017 Infrastructure Renewal Program:

(a) The following Consulting Engineering firms **BE APPOINTED** Consulting Engineers for the pre-design and design of the said projects, at the upset amounts identified below, including contingency and exclusive of HST, in accordance with the estimate on file, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 of the City of London's Procurement of Goods and Services Policy; it being noted that these consultants may obtain approval to proceed with subsequent phases of engineering for their projects subject to satisfying all financial, reporting and other conditions contained within this Policy:

(i) Contract 1: AECOM Canada Ltd, in the amount of $282,326.00.
(ii) Contract 2: Spriet Associates, in the amount of $208,466.50.
(iii) Contract 3: R.V. Anderson Associates Limited, in the amount of $178,200.00.
(iv) Contract 4: Archibald, Gray & McKay Engineering, in the amount of $339,240.00.
(v) Contract 5: Development Engineering Ltd, in the amount of $191,317.50.
(vi) Contract 6: AECOM Canada Ltd, in the amount of $174,157.50.
(vii) Contract 7: Stantec Consulting Ltd, in the amount of $207,417.10.
(viii) Contract 8: Archibald, Gray & McKay Engineering Limited, in the amount of $247,038.00.
(ix) Contract A: Dillon Consulting Ltd, in the amount of $445,196.96.
(x) Contract B: R.V. Anderson Associates Limited, in the amount of $208,450.00.
(xi) Contract C: Spriet Associates, in the amount of $210,776.50.
(xii) Contract D: IBI Group, in the amount of $636,447.90.

(b) the financing for design of the projects identified in (a), above, **BE APPROVED** in accordance with 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 work;

(d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with each Consultant for the respective 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.

BACKGROUND

Purpose:

The Infrastructure Renewal Program (IRP) is an annual program intended to maintain the life of municipal infrastructure at an acceptable performance level. Typically, about ten Capital Works Projects are awarded to consultants every year to work with the City to help deliver the program and meet increasingly challenging infrastructure needs. This report recommends consultants to be appointed for the coming year's IRP.

Discussion:

This report recommends the appointment of Engineering Consultants for twelve engineering design assignments as identified in Appendix "B". Eight of the projects are scheduled for construction in 2016, four in 2017. Funds have been budgeted in the Transportation, Water and Sewer Capital Budgets to support the engineering design work for these projects as identified in the "Sources of Financing Report" (Appendix "A"). Engineering services during construction and construction contract approval recommendations will follow design and tender of each project.

The 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 infrastructure components which require rehabilitation or replacement. In some cases, full road reconstruction will be part of the overall project. Location maps are provided in Appendix "C".

The projects support the objectives identified in the Strategic Plan under Building a Sustainable City – Robust Infrastructure, by implementing Water and Wastewater Business Plans that address the infrastructure deficit.

The infrastructure design groups within each service area work closely together to coordinate infrastructure repair, rehabilitation and replacement. They prepare a list of the highest priority projects depending on condition assessment, capacity, criticality of the infrastructure link and the safety and social impacts should the link fail. Staff meet regularly throughout the year to coordinate their respective work with the goal to build projects where more than one infrastructure element can be renewed, thereby significantly reducing social disruption and saving on construction costs. Various Divisions within EES take part in this effort: Water Engineering, Wastewater and Drainage Engineering, Transportation Planning and Design, Roadway Lighting and Traffic Control, Transportation Parking and Traffic Signals, Construction Administration, and Geomatics (Surveys and Graphical Information System maintenance). The long term integrity of the City's infrastructure rests on the work done by these core service groups, noting these projects are also coordinated with other City service areas such as, but not limited to; Risk Management, Parks Planning and Design, Planning and Development (Forestry, Heritage etc.), Transportation, Sewer and Water Operations, Solid Waste Management and Pollution Control Operations. In addition, all projects are communicated with external utility groups (Bell, Union Gas, Hydro etc.) well in advance of construction to ensure partnerships are established, budgets are in place, and effective coordination of work takes place early in design and on to construction.

Design work early in the budget cycle allows for a more efficient process with projects on the shelf and ready to go to tender early in the season to realize the most competitive construction pricing.

Other features of the IRP program include: early survey of streets to reduce design lag time; program "block funding" to establish a consistent budget base so that advance planning and coordination can be done well ahead of the annual budget approval stage; and, greater efficiency of City staff and Consultant time so that efforts can be focused on quality and value delivery.

In the past, six to ten projects awarded to consultants annually (representing approximately 20 to 25% of the annual consulting assignments) were undertaken as individual proposals, occupying considerable Committee time and City staff resources. This is the tenth year where most Infrastructure Renewal Projects have been grouped together. This saves significant administrative time for both the City and the consultants involved and respects both the formal City consultant selection process.

Conclusions:

The recommendation of this report is to appoint various Consultants to undertake the design work required for twelve projects in the 2016-2017 Infrastructure Renewal Program identified in Appendix "B", it being noted that these consultants may obtain the approval to proceed with subsequent phases of engineering for their projects subject to satisfying all financial, reporting and other conditions.

The selection process followed has saved significant administrative time for both the City and the consultant community and fosters a collaborative working relationship that focuses on achieving the lowest life cycle cost or highest service performance for municipal infrastructure to the benefit of water and sewer rate payers and taxpayers in the long term. All the firms selected have shown their competency and expertise with replacement projects of this type and have provided good performance in the past on City projects. The infrastructure renewal program approach better ables the City to control construction costs and achieve a consistent high degree of public satisfaction.

Additional annual operating costs to the EES budget in 2017 and subsequent years associated with completed infrastructure projects are not determined at this time but will be presented at the time of contract award, if required.

Acknowledgements:

This report was prepared by Ugo DeCandido, P.Eng. Environmental Services Engineer, Wastewater and Drainage Engineering Division and Roland Welker, P.Eng., Division Manager Water Engineering.

SUBMITTED AND CONCURRED BY:	**RECOMMENDED BY:**
JOHN LUCAS, P. ENG. **DIRECTOR, WATER AND WASTEWATER ENVIRONMENTAL & ENGINEERING SERVICES**	**JOHN BRAAM, P.ENG.** **MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**

CONCURRED BY:
EDWARD SOLDO, P.ENG. **DIRECTOR, ROADS AND TRANSPORTATION**

May 25, 2015
UD/rw
Attach: Appendix “A” – Sources of Financing
Appendix “B” - Project Information list, Consultants & Construction Estimates
Appendix “C” – Project Locations Maps

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c.c. AECOM Canada Ltd, 410 – 250 York Street, Citi Plaza, N6A 6K2
Dillon Consulting Ltd, 130 Dufferin Avenue, Suite 1400
IBI Group, 350 Oxford Street West, Suite 203, N6H 1T3
Spriet Associates, 155 York Street, N6A 1A8
Archibald, Gray & McKay Engineering, 3514 White Oak Road, N6E 2Z9
R.V. Anderson Associates Limited, 557 Southdale Road East Suite 200, N6E 1A2
Stantec Consulting Ltd, 800-171 Queens Avenue, London, ON, N6A 5J7
Development Engineering Ltd., 41 Adelaide Street North, Unit 71, London ON, N6B 3P4

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Appendix "B"

Project Information List, Consultants & Construction Estimates

2016-17 INFRASTRUCTURE RENEWAL PROJECTS CONSULTANT ASSIGNMENTS

(updated May 6, 2015: Council Meeting June 2, 2015)

CONTRACT	STREET	From	To	City Project Manager Source Division	CONSULTANT	LENGTH (~ m)	CONCEPTUAL CONSTRUCTION ESTIMATE	DIVISONS FUNDING
2016 Construction: 2015-2016 Design Engineering								
1	**WATERLOO** **SOUTH** **HILL**	SOUTH (river) COLBORNE WATERLOO	HILL WELLINGTON WELLINGTON	WADE	AECOM	180 500 240	~ $3.4 - 3.8 M	WATER WADE Transportation RL & TC
2	**RAYWOOD** **BOND** **ALEXANDRA** **LINCOLN**	TREVITHEN TREVITHEN TREVITHEN TREVITHEN	FAIRVIEW FAIRVIEW FAIRVIEW FAIRVIEW	WADE	SPRIET	180 180 195 195	~ $2.5 - 3 M	WADE WATER
3	**WILLIAM** **WELLINGTON**	ST. JAMES REGENT	GROSVENOR HURON	WADE	RVA	250 140	~ $1.5 - 1.7 M	WATER WADE Transportation
4	**DUNDAS** **McCORMICK** **PRINCESS** **NIGHTINGALE** **Directional Drill**	ELEANOR DUNDAS McCORMICK PRINCESS	McCORMICK NORTH END EAST EXISTING TRUNK	WADE	AGM	50 560 150 70 90	~ $3 - 3.3 M	WATER WADE Transportation
5	**LANDOR**	WETHERED	HIGHBURY	WATER	DEV ENG	520	~ $2.2- 2.6 M	WADE WATER Transportation
6	**RIDGEWOOD**	264 GREENWOOD	SOUTHCREST	WATER	AECOM	580	~ $1.6 -2 M	WADE WATER
7	**ASHLAND**	FLORENCE	DUNDAS	WATER	STANTEC	580	~ $1.6 -2 M	WADE WATER Transportation
8	**IROQUOIS**	EDWARD	MURRAY	WATER	AGM	630	~ $2.2 -2.5 M	WADE WATER Transportation
2017 Construction: 2015-2016 Design Engineering								
A	**DUNDAS**	QUEBEC	ELEANOR	WADE	DILLON	650	~ $4.5 - 5 M	WATER WADE RL & TC Transportation
B	**AVALON** **AVALON OUTLET**	CLARKE AVALON	WEST END OUTLET	WATER	RVA	450 110	~ $1.7 - 2.2 M	WATER WADE
C	**EMERY**	WHARNCLIFFE	CATHCART	WATER	SPRIET	650	~ $1.7 - 2.2 M	WATER WADE
D	**MAIN**	WHARNCLIFFE	DINGMAN CREEK	Transportation	IBI	1100	~ $6 - 7 M	WATER WADE RL & TC Transportation

WADE: City of London Wastew ater & Drainage Engineering Division

WATER: City of London Water Engineering Division

Transportation: City of London Transportation Planning & Design

RL & TC: Roadw ay Lighting & Traffic Control

CA: City of London Construction Administration Division

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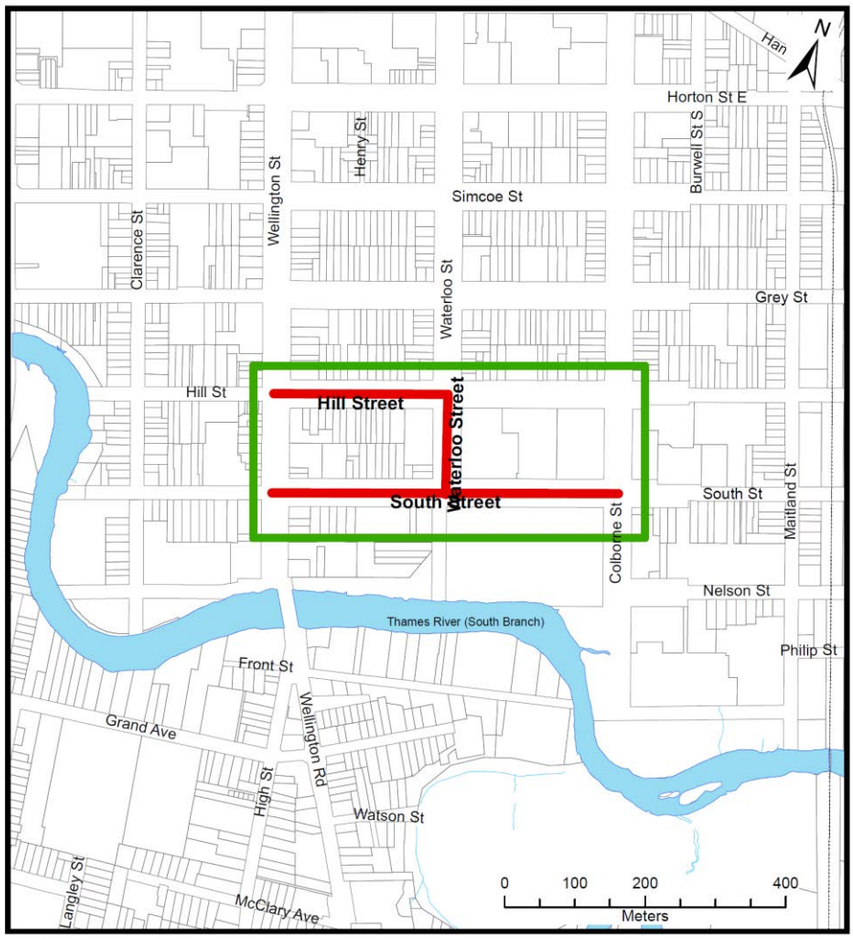
Appendix “C

Project Location Maps

Contract 1



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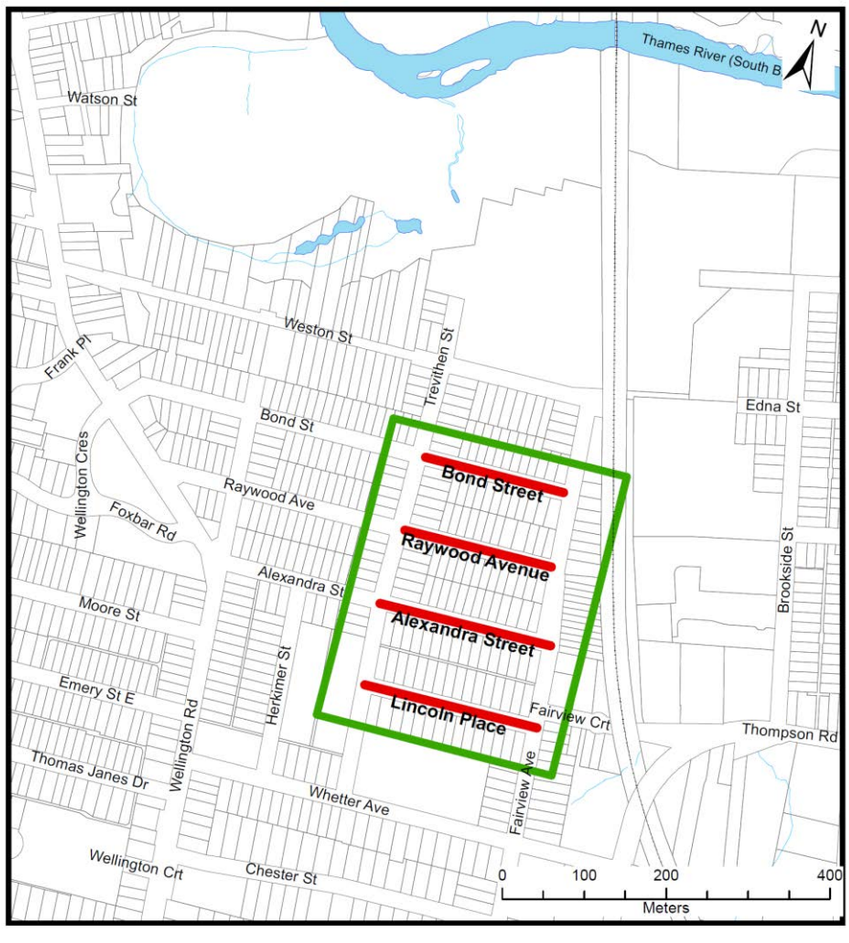

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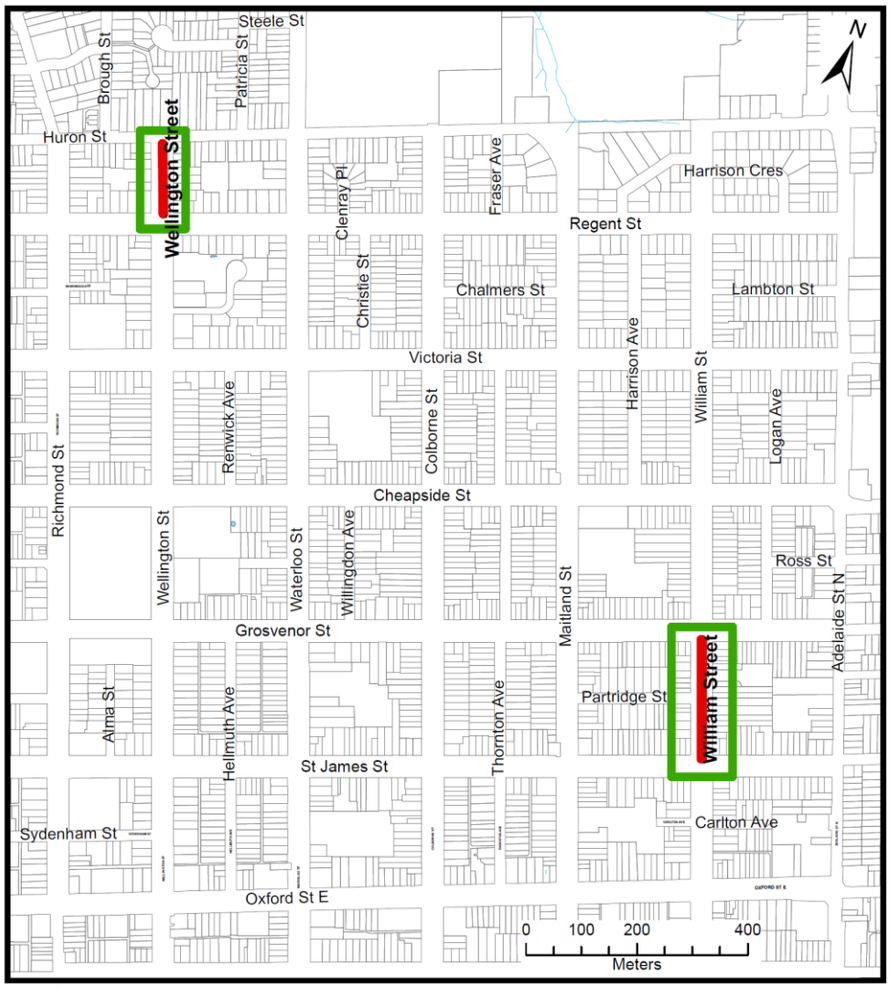

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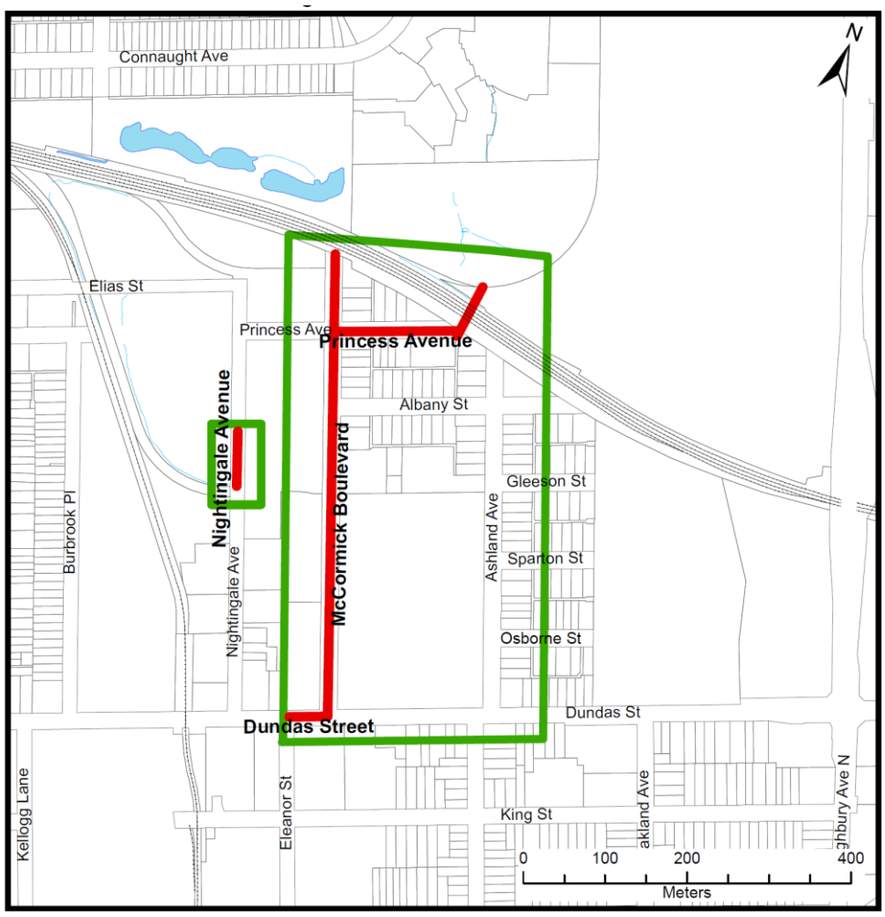

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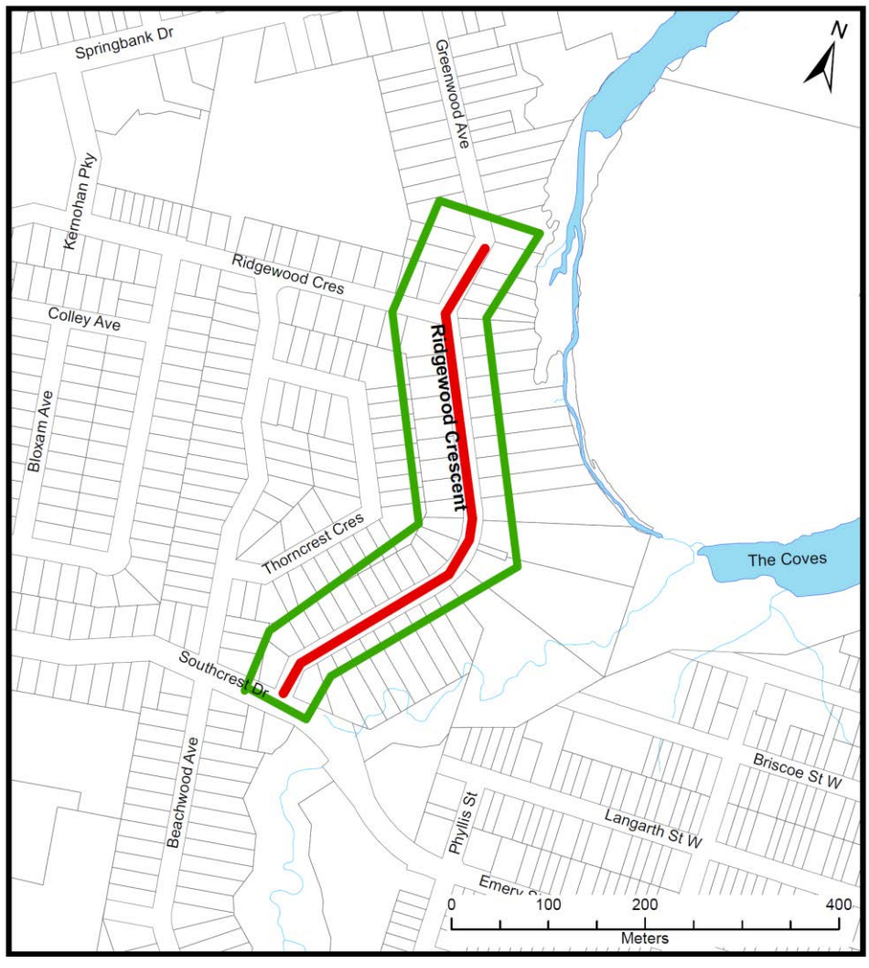
Contract 5

Contract 6



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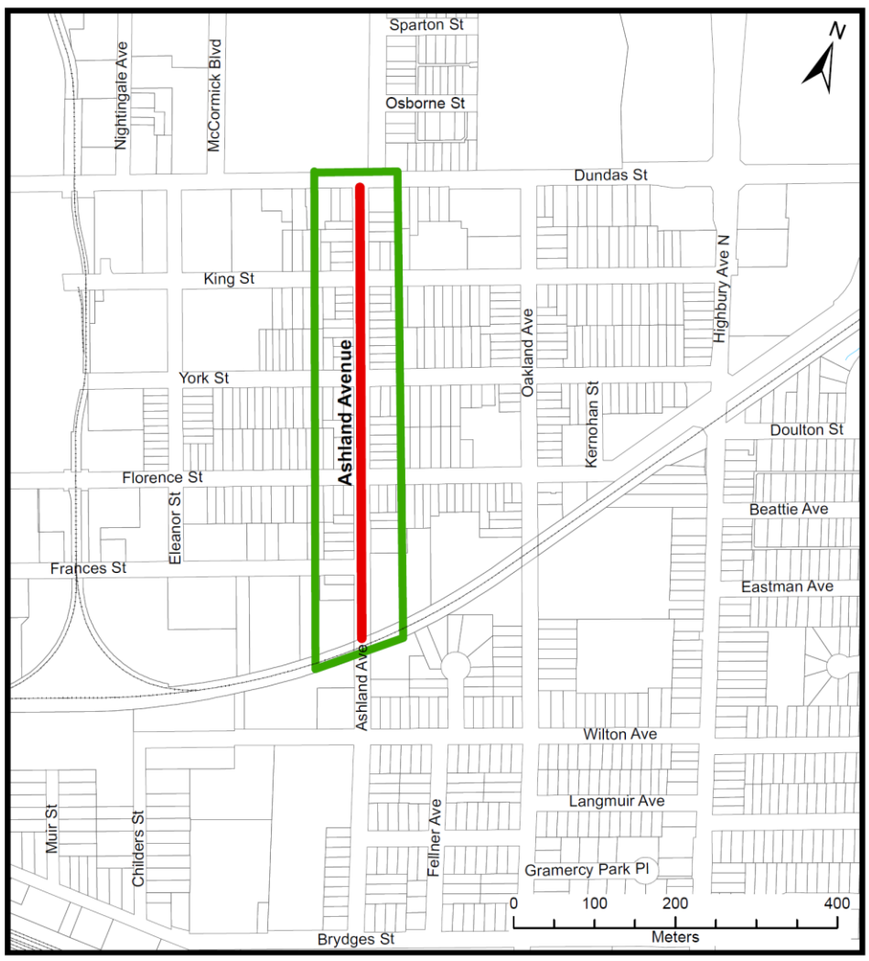

Contract 8

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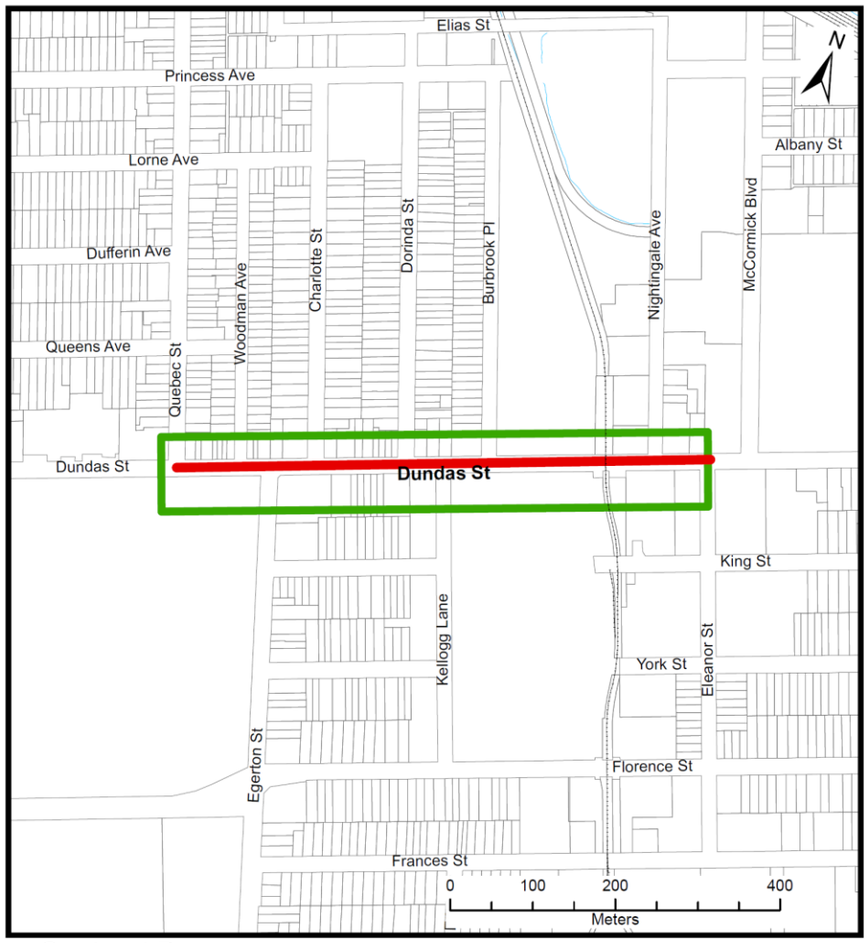
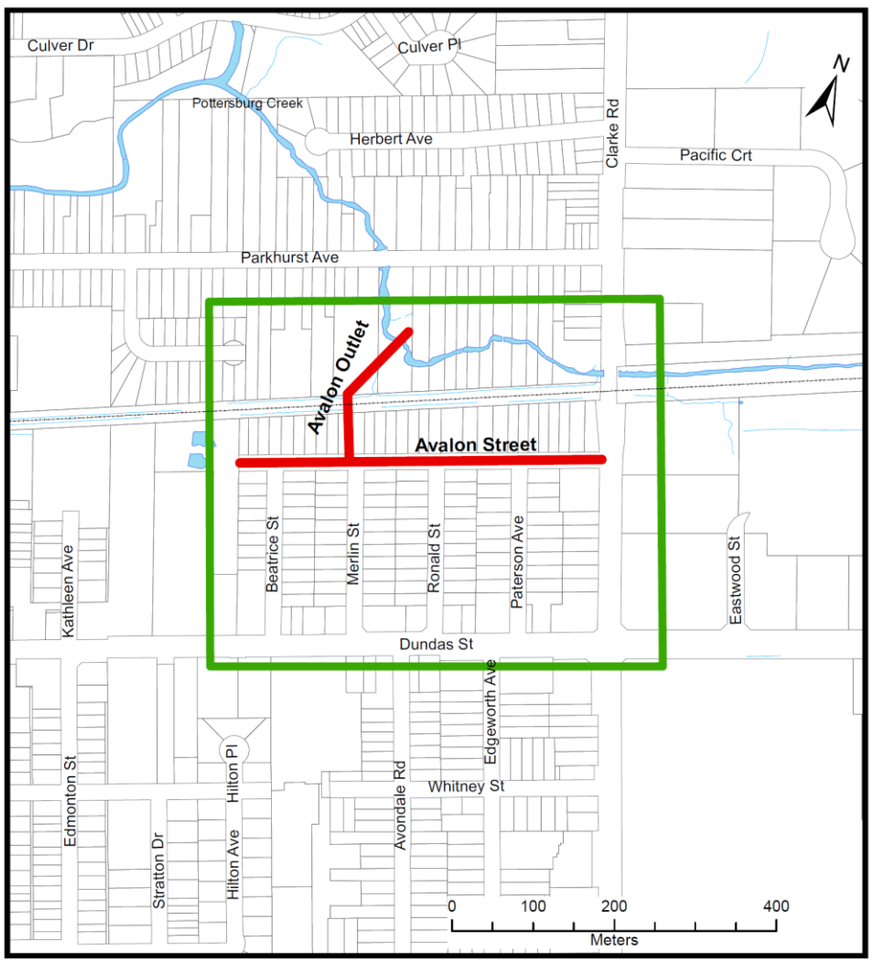
Contract A



Contract B



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Contract C

Contract D