

## Report to Civic Works Committee

**To:** Chair and Members  
Civic Works Committee

**From:** Kelly Scherr, P. Eng., MBA, FEC  
Deputy City Manager, Environment & Infrastructure

**Subject:** Western Road and Sarnia Road/Philip Aziz Avenue Corridor  
and Intersection Improvements Detailed Design  
Appointment of Consulting Engineer

**Date:** July 18, 2023

## Recommendation

That, on the recommendation of the Deputy City Manager, Environment & Infrastructure, the following actions **BE TAKEN** with respect to the appointment of a consulting engineer for the detailed design and tendering of the Western Road and Sarnia Road/Philip Aziz Avenue corridor and intersection improvements:

- (a) AECOM Canada Ltd. **BE APPOINTED** as the consulting engineer to complete the detailed design and tendering services at an upset amount of \$1,645,435.00, excluding HST;
- (b) the financing for this assignment **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 assignment;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and,
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents including agreements, if required, to give effect to these recommendations.

## Executive Summary

### Purpose

This report seeks the approval of Municipal Council to appoint AECOM Canada Ltd. (AECOM) as the engineering consultant to undertake the detail design and tendering for the Western Road and Sarnia Road / Philip Aziz Avenue corridor and intersection improvements. In accordance with the City's Procurement of Goods and Services Policy, Council approval of this consultant contract award is required.

### Context

On behalf of the City, AECOM completed a Municipal Class Environmental Assessment (EA) to address necessary infrastructure improvements for the Western Road and Sarnia Road / Philip Aziz Avenue corridor and intersection. The Environmental Study Report (ESR) recommended road and drainage improvements to Western Road from Platt's Lane to the Huron College entrance at Burnlea Walk and to Sarnia Road/Philip Aziz Avenue from Sleightholme Avenue to the Thames River. The ESR also recommended further assessment of pedestrian priority traffic signal phasing (an intersection scramble) at the Western Road/Sarnia Road/Philip Aziz Avenue

intersection be completed during detailed design.

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

Municipal Council's new Strategic Plan identifies "Mobility and Transportation" as a strategic area of focus. This report supports the Strategic Plan by identifying the building of infrastructure that provides safe, integrated, connected, reliable and efficient transportation choices.

## **Analysis**

### **1.0 Background Information**

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

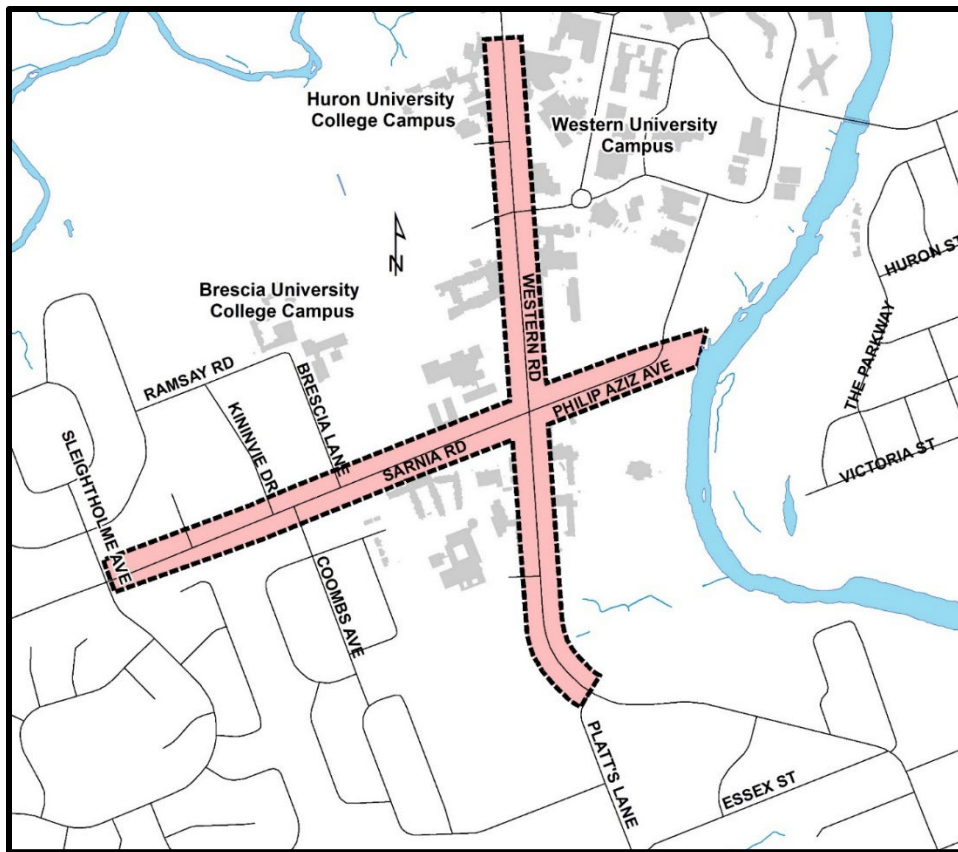
- Civic Works Committee – April 12, 2023 – Western Road and Sarnia Road/Philip Aziz Avenue Corridor and Intersection Improvements – Environmental Study Report, Notice of Completion
- Civic Works Committee – May 11, 2021 – Sarnia Road/Philip Aziz Avenue and Western Road Environmental Assessment – Consultant Re-Start
- Civic Works Committee report – January 6, 2015 – Western Road and Sarnia Road / Philip Aziz Avenue Environmental Assessment – Consultant Award

### **2.0 Discussion and Considerations**

#### **2.1 Project Background**

The City recently completed a Schedule C Municipal Class Environmental Assessment (EA) study to identify the long-term preferred solution for the Western Road and Sarnia Road / Philip Aziz Avenue corridor and intersection. The study area extended along Western Road from Platt's Lane northerly to the Huron College entrance (Burnlea Walk) and Sarnia Road / Philip Aziz Avenue from Sleightholme Avenue to the Thames River as shown on Figure 1.

Western Road between Huron College and Platts Lane is part of a primary transportation corridor that services Western University, and other local institutions such as University Hospital, in addition to some residential and commercial uses. Within this corridor, the Western Road and Sarnia Road/Philip Aziz Avenue intersection supports a large volume of pedestrians, cycling traffic, vehicles and frequent transit services. These modes of traffic are expected to increase in the future.



**Figure 1:** Environmental Assessment Study Area

The current City of London Transportation Master Plan recommends that the Western Road and Sarnia Road/Philip Aziz Avenue intersection be improved to accommodate increased traffic, address safety, and improve road width constraints along Philip Aziz Avenue.

The ESR recommended the following improvements to the Western Road and Sarnia Road/Philip Aziz Avenue Corridor and Intersection:

Western Road (Platt's Lane to Burnlea Walk)

- Extend the southbound right turn lane (from Western Road to Westbound Sarnia Road);
- Convert three existing bus stops on Western Road to bus bays;
- Provide new dedicated cycling lanes and wider pedestrian sidewalks from the north to south limits of the study area; and
- Restrict current and future access to and from select properties along Western Road.

Sarnia Road (Sleightholme Avenue to Western Road)

- Provide new dedicated cycling lanes and wider pedestrian sidewalks from the east to west limits of the study area.

Philip Aziz Avenue (Western Road to Thames River)

- Provide a new urban roadway cross-section, including cycle lanes, sidewalks, curb and gutter, and a relocated entrance to the Philip Aziz property.

Western Road/Sarnia Road/Philip Aziz Avenue Intersection

- Provide wider pedestrian crossings, with larger waiting areas;
- Provide improved cycle lane connectivity and pavement markings;

- Reconstruct the intersection to suit adjacent road alignments, maintaining a single northbound left turn lane to Sarnia Road; and
- Conduct an assessment of pedestrian priority traffic signal phasing (such as an intersection scramble) during the project design phase.

#### Stormwater Drainage

- Provide new storm sewers on Western Road, Sarnia Road, Philip Aziz Avenue with a new storm outfall to the Thames River.

#### Multi-Modal Levels of Service

- The project has been evaluated for the Multi-Modal Levels of Service provided at affected intersections, as well as segments of roadways within the limits. With improvements for pedestrians, cyclist, transit and other vehicles on the roadway, users will see an improvement in service and safety.

#### Climate Change

- Consideration for climate change, using the Climate Emergency Screening Tool criteria, has been reviewed including improving active transportation facilities and resiliency of the stormwater management system.

On April 25, 2023, Municipal Council accepted the ESR for the Western Road and Sarnia Road/Philip Aziz Avenue Corridor and Intersection Improvements subject to further assessment of pedestrian priority traffic signal phasing (an intersection scramble) at the Western Road/Sarnia Road/Philip Aziz Avenue intersection during the project design phase.

## **2.2 Consultant Procurement Process**

The consultant selection process for this assignment has been undertaken in accordance with Section 15.2 (g) of the City's Procurement of Goods and Services Policy.

AECOM Canada Ltd. successfully completed the EA study for this project after a competitive procurement process. Due to the consultant's past performance, knowledge and understanding of the project, they were invited to submit a proposal to carry out the subsequent detailed design and tendering phases of the project. City staff have reviewed this proposal, including the financial and technical components, and confirmed that it addresses the required scope of work and provides good value for the city. The submitted fees are consistent with the earlier project phase and other similar city projects.

Subject to project performance, AECOM will be considered for the construction administration phases of the project.

## **3.0 Financial and Schedule Considerations**

Funds are identified in the capital budget for the engineering and detailed design of the Western Road and Sarnia Road/Philip Aziz Avenue corridor and intersection improvements as per the Source of Financing attached as Appendix A. Additional funds will be required for construction of the project and will be requested as part of the upcoming 2024-2027 Multi-Year Budget process.

Coordination with adjacent projects, property owners, London Hydro, Western University, Brescia College and regulatory agencies is planned early in the design process. Network traffic management and a communications plan will be developed during detailed design to inform road users, outline detours during potential closures, and instruct local traffic movement.

A two phased construction schedule is proposed to accommodate the new storm sewers on Western Road, Sarnia Road, Philip Aziz Avenue with a new storm outfall to the Thames River. As part of the design phase, a construction phasing and project delivery schedule will be developed which will identify schedule milestones associated property acquisition and environmental approvals. It is anticipated that the first phase of construction will commence in 2025 and will include the reconstruction of Philip Aziz Avenue and the new storm sewer outfall to the Thames River. Some advance works and pre-engineering activities may commence in 2024. The second project phase will follow with improvements to the Western Road and Sarnia Road/Philip Aziz Avenue intersection.

#### **4.0 Conclusion**

Improvements to the Western Road and Sarnia Road/Philip Aziz Avenue corridor and intersection are required to improve safety, complete the local active transportation network, accommodate growth in the area and improve drainage on Western Road.

AECOM Canada Ltd. has demonstrated a comprehensive understanding of the requirements for this project. Based on their past performance during the completion of the EA, it is recommended that AECOM Canada Ltd. be appointed to undertake the detail design and tendering for the Western Road and Sarnia Road/Philip Aziz Avenue corridor and intersection improvements in the amount of \$1,645,435.00 (excluding HST). This approach will result in cost efficiencies and provides good value for the City.

**Prepared by:** Garfield Dales, P. Eng., Division Manager,  
Transportation Planning and Design

**Submitted by:** Doug MacRae, P. Eng., MPA, Director, Transportation  
and Mobility

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

Appendix A: Source of Financing

c: Josh Ackworth, AECOM Canada Ltd.  
Andrew Denomme, City of London

## Appendix "A"

#23139

July 18, 2023

(Appoint Consulting Engineer)

Chair and Members

Civic Works Committee

RE: Western Road and Sarnia Road/Philip Aziz Avenue Corridor and Intersection Improvements Detailed Design  
(Subledger RD210009)

Capital Project TS1136 - Western Road Improvements - Huron College to Platt's Lane

Capital Project TS1627 - Philip Aziz - Western Rd to Thames River

Capital Project TS1670 - Intersection - Sarnia/Philip Aziz - Western Rd

Capital Project EW3788 - Western Road Watermain Upsizing (Platt's Lane to Sarnia Rd)

Capital Project ES241422 - Infrastructure Renewal Program - Sanitary Sewers

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

Capital Project TS406723 - Traffic Signals - Maintenance

Capital Project TS512322 - Street Light Maintenance

AECOM Canada Ltd - \$1,645,435.00 (excluding HST)

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

Estimated Expenditures	Approved Budget	Committed To This Date	This Submission	Balance for Future Work
<b>TS1136 - Western Road Improvements - Huron College to Platt's Lane</b>				
Engineering	1,628,214	576,445	1,051,769	0
Construction	6,671,786	0	0	6,671,786
Relocate Utilities	400,000	0	0	400,000
City Related Expenses	100,000	0	0	100,000
<b>TS1136 Total</b>	<b>8,800,000</b>	<b>576,445</b>	<b>1,051,769</b>	<b>7,171,786</b>
<b>TS1627 - Philip Aziz - Western Rd to Thames River</b>				
Engineering	490,000	79,168	319,641	91,191
Construction	2,088,100	0	0	2,088,100
<b>TS1627 Total</b>	<b>2,578,100</b>	<b>79,168</b>	<b>319,641</b>	<b>2,179,291</b>
<b>TS1670 - Intersection - Sarnia/Philip Aziz - Western Rd</b>				
Engineering	928,125	0	118,771	809,354
<b>EW3788 - Western Road Watermain Upsizing (Platt's Lane to Sarnia Rd)</b>				
Engineering	185,328	0	59,978	125,350
Construction	1,707,983	0	0	1,707,983
<b>EW3788 Total</b>	<b>1,893,311</b>	<b>0</b>	<b>59,978</b>	<b>1,833,333</b>
<b>ES241422 - Infrastructure Renewal Program - Sanitary Sewers</b>				
Engineering	2,000,000	1,724,223	45,942	229,835
Engineering (Utilities Share)	12,859	12,859	0	0
Construction	10,409,529	9,721,561	0	687,968
City Related Expenses	25,000	2,192	0	22,808
<b>ES241422 Total</b>	<b>12,447,388</b>	<b>11,460,835</b>	<b>45,942</b>	<b>940,611</b>

## Appendix "A"

#23139

July 18, 2023

(Appoint Consulting Engineer)

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RE: Western Road and Sarnia Road/Philip Aziz Avenue Corridor and Intersection Improvements Detailed Design

(Subledger RD210009)

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Capital Project TS1627 - Philip Aziz - Western Rd to Thames River

Capital Project TS1670 - Intersection - Sarnia/Philip Aziz - Western Rd

Capital Project EW3788 - Western Road Watermain Upsizing (Platt's Lane to Sarnia Rd)

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

Capital Project TS406723 - Traffic Signals - Maintenance

Capital Project TS512322 - Street Light Maintenance

AECOM Canada Ltd - \$1,645,435.00 (excluding HST)

Estimated Expenditures continued	Approved Budget	Committed To This Date	This Submission	Balance for Future Work
<b>ES254023 - Infrastructure Renewal Program - Stormwater Sewers &amp; Treatment</b>				
Engineering	2,000,000	1,053,848	46,085	900,067
Construction	11,212,878	6,201,546	0	5,011,332
City Related Expenses	100,000	0	0	100,000
<b>ES254023 Total</b>	<b>13,312,878</b>	<b>7,255,394</b>	<b>46,085</b>	<b>6,011,399</b>
<b>TS406723 - Traffic Signals - Maintenance</b>				
Engineering	500,000	0	16,175	483,825
Construction	3,829,661	609,777	0	3,219,884
<b>TS406723 Total</b>	<b>4,329,661</b>	<b>609,777</b>	<b>16,175</b>	<b>3,703,709</b>
<b>TS512322 - Street Light Maintenance</b>				
Engineering	300,000	228,093	16,032	55,875
Construction	2,750,852	1,568,247	0	1,182,605
<b>TS512322 Total</b>	<b>3,050,852</b>	<b>1,796,340</b>	<b>16,032</b>	<b>1,238,480</b>
<b>Total Expenditures</b>	<b>\$47,340,315</b>	<b>\$21,777,959</b>	<b>\$1,674,393</b>	<b>\$23,887,963</b>
<b>Sources of Financing</b>				
<b>TS1136 - Western Road Improvements - Huron College to Platt's Lane</b>				
Debenture By-law No. W.-5577-64 (Note 1)	8,800,000	576,445	1,051,769	7,171,786
<b>TS1627 - Philip Aziz - Western Rd to Thames River</b>				
Debenture By-law No. W.-5676-194 (Note 2)	257,810	7,917	31,964	217,929
Drawdown from City Services - Roads Reserve Fund (Development Charges) (Note 4)	2,320,290	71,251	287,677	1,961,362
<b>TS1627 Total</b>	<b>2,578,100</b>	<b>79,168</b>	<b>319,641</b>	<b>2,179,291</b>
<b>TS1670 - Intersection - Sarnia/Philip Aziz - Western Rd</b>				
Debenture Quota (Note 3)	116,016	0	14,846	101,170
Drawdown from City Services - Roads Reserve Fund (Development Charges) (Note 4)	812,109	0	103,925	708,184
<b>TS1670 Total</b>	<b>928,125</b>	<b>0</b>	<b>118,771</b>	<b>809,354</b>
<b>EW3788 - Western Road Watermain Upsizing (Platt's Lane to Sarnia Rd)</b>				
Drawdown from Water Works Renewal Reserve Fund	1,703,980	0	53,980	1,650,000
Drawdown from City Services - Water Reserve Fund (Development Charges) (Note 4)	189,331	0	5,998	183,333
<b>EW3788 Total</b>	<b>1,893,311</b>	<b>0</b>	<b>59,978</b>	<b>1,833,333</b>

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AECOM Canada Ltd - \$1,645,435.00 (excluding HST)

Sources of Financing continued	Approved Budget	Committed To This Date	This Submission	Balance for Future Work
<b>ES241422 - Infrastructure Renewal Program - Sanitary Sewers</b>				
Capital Sewer Rates	7,934,529	7,934,529	0	0
Drawdown from Sewage Works Renewal Reserve Fun	2,250,000	1,263,447	45,942	940,611
Canada Community-Building Fund	2,250,000	2,250,000	0	0
Other Contributions	12,859	12,859	0	0
<b>ES241422 Total</b>	<b>12,447,388</b>	<b>11,460,835</b>	<b>45,942</b>	<b>940,611</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	3,762,894	46,085	6,011,399
Canada Community-Building Fund	2,250,000	2,250,000	0	0
<b>ES254023 Total</b>	<b>13,312,878</b>	<b>7,255,394</b>	<b>46,085</b>	<b>6,011,399</b>
<b>TS406723 - Traffic Signals - Maintenance</b>				
Capital Levy	3,632,783	609,777	16,175	3,006,831
Drawdown from Transportation Renewal Reserve Fund	696,878	0	0	696,878
<b>TS406723 Total</b>	<b>4,329,661</b>	<b>609,777</b>	<b>16,175</b>	<b>3,703,709</b>
<b>TS512322 - Street Light Maintenance</b>				
Capital Levy	2,707,863	1,796,340	16,032	895,491
Drawdown from Transportation Renewal Reserve Fund	342,989	0	0	342,989
<b>TS512322 Total</b>	<b>3,050,852</b>	<b>1,796,340</b>	<b>16,032</b>	<b>1,238,480</b>
<b>Total Financing</b>	<b>\$47,340,315</b>	<b>\$21,777,959</b>	<b>\$1,674,393</b>	<b>\$23,887,963</b>



**Appendix "A"**

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Capital Project TS406723 - Traffic Signals - Maintenance

Capital Project TS512322 - Street Light Maintenance

AECOM Canada Ltd - \$1,645,435.00 (excluding HST)

<b>Financial Note:</b>	<b>TS1136</b>	<b>TS1627</b>	<b>TS1670</b>	<b>EW3788</b>
Contract Price	\$1,033,578	\$314,112	\$116,717	\$58,941
Add: HST @13%	134,365	40,835	15,173	7,662
Total Contract Price Including Taxes	1,167,943	354,947	131,890	66,603
Less: HST Rebate	-116,174	-35,306	-13,119	-6,625
Net Contract Price	<u>\$1,051,769</u>	<u>\$319,641</u>	<u>\$118,771</u>	<u>\$59,978</u>

<b>Financial Note Continued:</b>	<b>ES241422</b>	<b>ES254023</b>	<b>TS406723</b>	<b>TS512322</b>
Contract Price	\$45,148	\$45,288	\$15,896	\$15,755
Add: HST @13%	5,869	5,887	2,066	2,048
Total Contract Price Including Taxes	51,017	51,175	17,962	17,803
Less: HST Rebate	-5,075	-5,090	-1,787	-1,771
Net Contract Price	<u>\$45,942</u>	<u>\$46,085</u>	<u>\$16,175</u>	<u>\$16,032</u>

<b>Financial Note Continued:</b>	<b>Total</b>
Contract Price	\$1,645,435
Add: HST @13%	213,905
Total Contract Price Including Taxes	1,859,340
Less: HST Rebate	-184,947
Net Contract Price	<u><b>\$1,674,393</b></u>

**Note 1: Note to City Clerk:** The City Clerk be authorized to increase Debenture By-law No. W.-5577-64 by \$5,000,000 from \$3,800,000 to \$8,800,000.

**Note 2: Note to City Clerk:** The City Clerk be authorized to increase Debenture By-law No. W.-5676-194 by \$8,810 from \$249,000 to \$257,810.

**Note 3: Note to City Clerk:** Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality from the Ministry of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary by-laws.

An authorizing by-law should be drafted to secure debenture financing for project TS1670 - Intersection - Sarnia/Philip Aziz - Western Rd for the net amount to be debentured of \$116,016.

**Note 4:** Development charges have been utilized in accordance with the underlying legislation and the approved 2019 Development Charges Background Study and the 2021 Development Charges Background Study Update.

Jason Davies  
Manager of Financial Planning & Policy

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