



**SUBJECT: ES-22-03 Tender award report, Plains Road protected bikeway and resurfacing**

**TO: Environment, Infrastructure & Community Services Cttee.**

**FROM: Engineering Services Department**

Report Number: ES-13-22

Wards Affected: 1

File Numbers: 570.02-959

Date to Committee: May 5, 2022

Date to Council: May 17, 2022

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### **Recommendation:**

Award the tender for contract ES-22-03 Plains Road protected bikeway and resurfacing to Associated Paving & Materials Ltd for \$8,067,561.14 including HST; and

Authorize the Manager of Procurement Services to issue a purchase order and/or sign any associated agreements with the bidder named above; and

Authorize the City Clerk to prepare the debenture by-law; and

Authorize the Mayor and City Clerk to sign any required agreements with the bidder named above, subject to the satisfaction of the Executive Director of Legal Services and Corporation Counsel; and

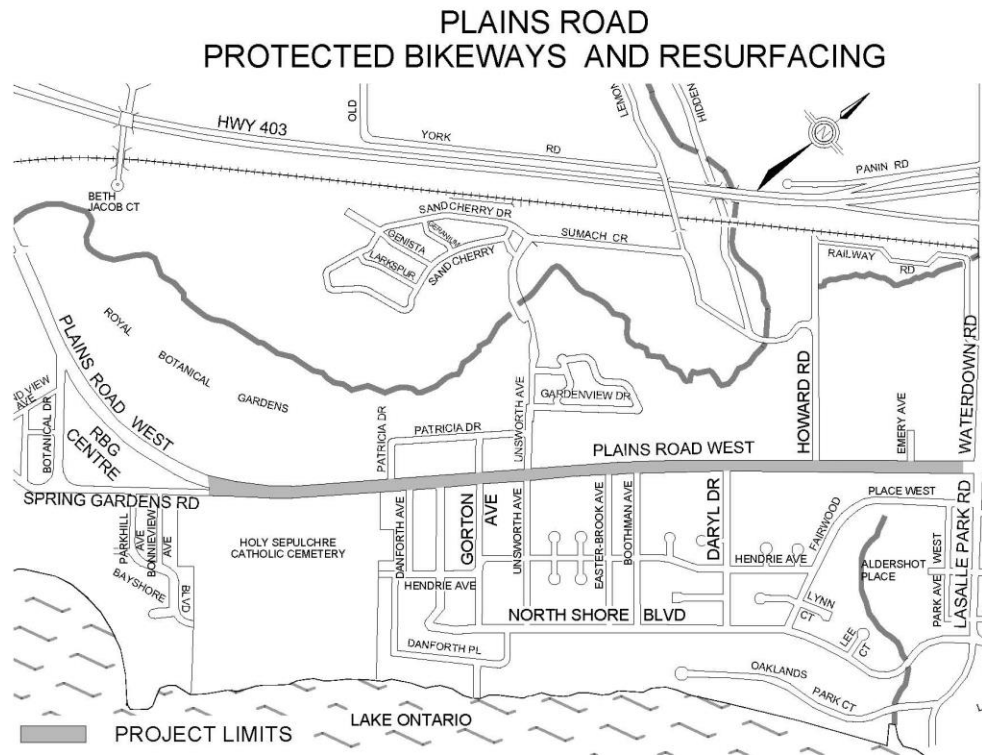
Approve the total cost of \$9,791,000 (Net HST) to be charged to **Capital Order RA0246** and funded as outlined in the financial matters section of the report.

### **PURPOSE:**

#### **Vision to Focus Alignment:**

- Improve integrated city mobility
  - Support sustainable infrastructure and a resilient environment
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## Background and Discussion:



In line with the vision of the Council endorsed Cycling Plan, the Plains Road Protected Bikeway and Resurfacing project will implement cycling facilities that will allow all users to feel more confident, comfortable, and safe using a bike as their mode of transportation. Plains Road has been designated as part of the spine network which is defined as a network of connected facilities across the city that provides a higher order of protection for cyclists that can be utilized by all ages and abilities.

The Plains Road Protected Bikeways and Resurfacing project extending from Waterdown Road to Spring Gardens Road includes the creation of an asphalt cycle track on the north side boulevard of Plains Road West and a protected on-road bike lane on the south side. This project marks the first installation of protected intersections in the city. These intersections are designed to increase physical separation from motor vehicles, improve sightlines, reduce the likelihood of highspeed vehicle turns and significantly reduce the distance and time during which cyclists are exposed to conflict. In addition, new and

upgraded transit stops will be installed to accommodate the cycling infrastructure as well as reduce conflict points between cyclists and buses.

Plains Road West will be resurfaced with spot curb and sidewalk replacements to improve drainage and accommodate the new cycling infrastructure. This project also includes upgrades to streetlights and new traffic signals.

Construction is anticipated to start in June and be completed in November 2022.

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## Procurement Information:

### Details

Advertised / Issue Date:	March 3, 2022
Advertised Methods(s):	<input checked="" type="checkbox"/> Bid & Tenders, <input type="checkbox"/> Other (specify) _____
Closing Date:	April 1, 2022
Number of Bids Received:	5
Total Number of Compliant bids:	5

### Bid Results

**Tender Results:** The contract is awarded to the lowest compliant bidder (named first).

No.	Name of Company	Total Bid including HST
1.	Associated Paving & Materials Ltd.	\$8,067,561.14
2.	King Paving & Construction Ltd.	\$8,334,654.70
3.	Coco Paving Inc.	\$10,577,038.45
4.	Graham Bros. Construction Ltd.	\$11,056,956.50
5.	Four Seasons Site Development Ltd.	\$11,176,924.81

### Financial Matters:

The following table presents a summary of the estimated project costs:

	<b>Project Budget</b>	<b>Tender Award</b>
<b>Contracted Construction</b>		
Contracted Construction	\$ 7,466,900	\$ 7,139,435
HST (1.76%)	\$ 131,417	\$ 125,654
<b>Subtotal Contracted Construction (Net HST)</b>	<b>\$ 7,598,317</b>	<b>\$ 7,265,089</b>
Construction Contingency	\$ 863,683	\$ 850,000
Asphalt Cement Adjustment	\$ 85,000	\$ 110,000
<b>Total Contracted Construction</b>	<b>\$ 8,547,000</b>	<b>\$ 8,225,088</b>
<b>Internal Costs</b>		
Administration	\$ 100,000	\$ 100,000
Design Services	\$ 200,000	\$ 240,000
Inspection	\$ 70,000	\$ 70,000
<b>Total Internal Costs</b>	<b>\$ 370,000</b>	<b>\$ 440,000</b>
<b>External Costs</b>		
Consulting Services	\$ 45,000	\$ 70,000
Tender & Advertising	\$ 6,000	\$ 6,000
Construction Material Testing	\$ 12,000	\$ 12,000
Other Including Utilities <sup>(1)</sup>	\$ 974,000	\$ 1,033,000
Licencing & Permits	\$ 5,000	\$ 5,000
<b>Total External Costs</b>	<b>\$ 1,042,000</b>	<b>\$ 1,126,000</b>
<b>Total Project Costs (Rounded)</b>	<b>\$ 9,959,000</b>	<b>\$ 9,791,000</b>

Note (1): Utility relocations have been completed in advance of the main Plains Road construction project. Bell Lines and wooden utility poles on the north side of Plains Road are being removed and the lines are buried underground. Burlington Hydro

secondary lines that cross overhead of Plains Road are being removed and relocated underground. The pre-approved work orders are included in the Other Including Utilities line item as well as the anticipated costs for driveway restoration credits and irrigation line restoration.

## Asphalt Cement Adjustment

A primary component in the manufacturing of asphalt is liquid asphalt cement (LAC). Contractors base their tender bids for asphalt based on the Ministry of Transportation of Ontario's Liquid Asphalt Price Index. The purchase price for LAC is expected to be extremely volatile over this coming construction seasons due to global issues. The current price for LAC is \$1065.45/tonne.

The City of Burlington, as well as the MTO and many other municipalities have adopted a policy of adjusting the price paid for asphalt to the current price index for LAC at the time of tender. The adjustment is made at the time when the asphalt is placed. This policy creates market fairness for all contractors during the tendering process.

The price for LAC may climb as high as \$1,200/tonne during the time frame when the paving will occur for this project, resulting in an overall increase in the cost of asphalt placed on this project of \$110,000. This amount has been included in the overall project estimate as noted above.

## Total Financial Impact

The following table presents a summary of the project funding:

	<b>Project Budget</b>	<b>Tender Award</b>
<b>Project Financing</b>		
Infrastructure Renewal Reserve Fund	\$ 1,437,900	\$ 1,122,054
Debt Issue – City Share	\$ 4,750,000	\$ 4,750,000
Capital Project Reserve Fund	\$ 675,000	\$ 675,000
Gas tax funding	\$ 3,096,100	\$ 3,096,100
Recovery from Province	\$ 0	\$ 118,846
<b>Total City Funding Sources</b>	<b>\$ 9,959,000</b>	<b>\$ 9,762,000</b>
<b>Total Financing</b>	<b>\$ 9,959,000</b>	<b>\$ 9,762,000</b>

### **Other Resource Impacts**

\$118,846 of funding previously received under the Ontario Municipal Commuter Cycling Program (OMCC) funding is being used to support a portion of this project. This funding was provided by the Province for municipalities to use in the creation of new bike lanes and other cycling infrastructure.

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### **Climate Implications**

The Plains Road Protected Bikeway and Resurfacing has a significant active transportation focus that involves the installation of an asphalt cycle track on the north side of Plains Road and an on road protected bike lane on the south side of Plains Road. The installation of active transportation networks is part of the City of Burlington Cycling Master Plan and will give cyclist's a safer travel network and encourage increased cycling along Plains Road instead of using vehicular transportation to get to a major activity hub, which is the Royal Botanical Gardens. This will reduce greenhouse gas emissions from vehicles, bringing the City of Burlington closer to its carbon neutral goal. Plains Road is serving as the first project for a protected on road bike lane and for protected intersections. The lessons learned during this project will influence and shape future active transportation installation projects throughout the City.

The Plains Road Protected Bikeway and Resurfacing project will also be installing a rain garden LID feature at Howard Road, which provides a positive climate impact. The purpose of a rain garden is to manage and treat storm water prior to discharging storm water into our storm sewer system and ultimately into our fresh water systems. A rain garden treats the storm water, removing pollutants that would otherwise be directly entering the storm system. A rain garden also serves as a cooling system for the storm water as well before it reaches our creeks and lakes, which ultimately would reduce the temperature of our lakes if installed in great enough numbers. This promotes fish habitat and reduces algae bloom. The rain garden also manages flow of storm water into the storm system, increasing the time it takes for water to enter into the storm system as it filters through the rain garden and reducing the amount of water that enters the storm system itself. This reduces stress on the system during storm events greater than the designed capacity of the storm sewer on this section of Plains Road.

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### **Engagement Matters:**

The project team attended a Ward 1 meeting on February 8, 2021 to give a high level review of the project and to advertise the virtual Public Meeting on June 23, 2021. Residents and business owners were notified by:

- Direct mail

- The City's project web page
- Advertisement in the Burlington Post
- The City of Burlington's Get Involved Burlington Calendar

The Public Information Center provided an overview on the following:

- Connection between the proposed Plains Road West Bikeway project and the Integrated Mobility Plan (IMP) and Cycling Plan.
- The proposed active transportation components and transit pad enhancements.
- Construction schedule.
- An open forum for residents and area business owners to ask questions and provide comments.
- Direction to our website to complete a survey for the project. The survey results came back with 79% of the respondents in support of the project.

The plans were generally well received with some active transportation concerns that were addressed at the meeting and through the follow up design process.

A second virtual public information meeting was held on January 27, 2022.

Residents and business owners were notified by:

- Direct mail
- The City's project web page
- Advertisement in the Burlington Post
- The City of Burlington's Engagement Calendar

The meeting provided

- Review of the proposed construction design.
- Construction Schedule
- An open forum for resident, and area business owners to ask questions.

Upon award of this contract, letters will be delivered to affected homes prior to the beginning of construction. As construction progresses, project updates will be delivered to affected residents on a regular basis. The project updates and associated road restriction information will also be made available on the City's website.

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## **Conclusion:**

Staff recommend the award of the tender for contract ES-22-03, Plains Road Protected Bikeways and Resurfacing to Associated Paving & Materials Ltd.

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Respectfully submitted,

Rob Stuart

Project Manager

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**Report Approval:**

All reports are reviewed and/or approved by Department Director, the Chief Financial Officer and the Executive Director of Legal Services & Corporation Counsel.