



SUBJECT: Tender Award – Wolfe Island Bridge Deck Soffit Repair

TO: Committee of the Whole

FROM: Capital Works

Report Number: CW-52-19

Wards Affected: 1

File Numbers: 570.02-908

Date to Committee: October 7, 2019

Date to Council: October 28, 2019

Recommendation:

Award the tender for contract CW-19-20, Wolfe Island Bridge Deck Soffit Repair to Landform Civil Infrastructures Inc., 75 Cascade St. Hamilton, Ontario L8E 3B7, for \$891,349.65 including HST; and

Authorize the Mayor and City Clerk to sign any required agreements with the bidder named above, subject to the satisfaction of the City Solicitor; and

Approve the total cost of \$990,000 (Net HST) to be charged to Capital Order BG0048 and funded as follows:

Wolfe Island Bridge Deck Soffit Repairs (BG0048)	\$580,000
Spring Gardens Slope Stability (RL0257)	\$308,796
Capital Purposes Reserve Fund (800013)	<u>\$101,204</u>
City of Burlington Funding	\$990,000
Total Project Financing	\$990,000

Purpose:

A City that Moves

- Increased Transportation Flows and Connectivity

Background and Discussion:

Wolfe Island Bridge is located on Plains Road West and serves as an important link between the City of Burlington and City of Hamilton. Built in 1973, it is a 10-span bridge divided longitudinally into two independent structures, each carrying two lanes of traffic over the Grindstone Marsh and three rail tracks.

Areas of the bridge soffit, particularly along the center joint, are experiencing severe spalling and delamination with exposed rebar representing a liability to the City and a safety risk to the public who use the pathway located directly below the structure through the Royal Botanical Gardens (RBG). In the interim, the City has taken precautionary measures to ensure public safety by blocking off the hazard area below the bridge.

In May 2019, the City retained the services of Associated Engineering Ltd. (AE) to develop a Bridge Management Plan which includes recommendations for maintenance, rehabilitation, replacement analysis and life cycle costs for the bridge.

Based on immediate rehabilitation needs, AE recommends soffit repairs along the length of the structure, and the addition of a new longitudinal drip edge along the entire length of the soffit at the longitudinal center joint. Completing these repairs now will help protect and extend the useful service life of the soffit, piers, girders and bearing until major structural rehabilitation can be completed.

Lane Restrictions:

Single lane restrictions in either direction will be permitted to allow room for equipment to access the underside of the bridge.

Construction Schedule:

October – December 2019, weather permitting

Climate Change Matters:

Climate change poses a significant risk to the performance of bridge structures and results in an increased rate of material deterioration and degradation.

Future climate conditions, such as higher temperatures, increased precipitation and higher carbon concentrations in the air can cause accelerated deterioration.

Increased rate of deterioration in concrete and steel structures can also result from more frequent application of de-icing salt due to an increase in freeze-thaw cycles.

Assets with a long service life (>75 years) need to function reliably and be resilient to future climate change related risks. Capital Works staff will continue to manage the risks of climate change on existing infrastructure, including the Wolfe Island Bridge.

Procurement Information:

The contract is awarded to the lowest compliant bidder (named first) and has a value of between \$100,000.00 and \$5,000,000.00.

Advertised / Issue Date:	August 23, 2019
Advertised Method(s):	Bids&Tenders™
Closing Date:	September 9, 2019
Number of Bids Received:	3
Total Number of Compliant Bids	3

Bid Results:

NO.	Name of Company	Total Bid (Including HST)
1	Landform Civil Infrastructures Inc.	\$891,349.65
2	Decew Construction Inc.	\$1,781,396.98
3	Clearwater Structure Inc. and Municipal Sewer Services	\$1,792,422.95

Financial Matters:

	PROJECT BUDGET	TENDER AWARD
CONTRACTED CONSTRUCTION		
– Contracted Construction (Pre-Tax)	\$ 435,686	\$ 788,805
– HST (1.76%)	\$ 7,668	\$ 13,883
– Subtotal Contracted Construction (Net HST)	\$ 443,354	\$ 802,688
Construction Contingency	\$ 43,569	\$ 94,657
Total Contracted Construction	\$ 486,923	\$ 897,345
Engineering Services	\$ 48,000	\$ 48,000
External Services		
– Consulting Services	\$ 45,000	\$ 45,000
– Construction Material Testing		
– Other External Services		
TOTAL PROJECT COSTS (ROUNDED)	\$ 580,000	\$ 990,000

Total Financial Impact

The total capital budget approved for the project is \$580,000. The total City costs for this phase of the project came in at \$990,000 resulting in an overage of \$410,000.

This project is over budget due to higher than anticipated cost to supply and install equipment and material for accessing the bridge soffit.

Source of Funding

The following table presents a summary of the City project funding:

Wolfe Island Bridge Deck Soffit Repair Capital Order BG0048	Project Funding As per Capital Budget	Project Funding As per Tender Award
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Total City Project Cost	\$580,000	\$990,000
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City Funding Sources

Wolfe Island Bridge Deck Soffit Repairs (BG0048)	\$350,000	\$350,000
Federal Gas Tax	\$230,000	\$230,000
Additional City Funding		
Spring Gardens Slope Stability (RL0257)	\$0	\$308,796
Capital Purposes Reserve Fund (800013)	\$0	\$101,204
Total City Funding	\$580,000	\$990,000

Other Resource Impacts

Not Applicable.

Connections:

Not Applicable.

Conclusion:

Staff are recommending tender CW-19-20, Wolfe Island Bridge Deck Soffit Repair be awarded to Landform Civil Infrastructures Inc.

Respectfully submitted,

Janine Yaromich, P.Eng

Project Manager

335-7600 ext. 7421

Report Approval:

All reports are reviewed and/or approved by Department Director, Director of Finance and Director of Legal. Final approval is by the City Manager.