



REPORT FOR ACTION

Amendment to Purchase Order No. 6049287 with AECOM Canada Ltd., for the Rehabilitation of the Crescent Town Pedestrian Bridge over Victoria Park Avenue

Date: October 22, 2019

To: Infrastructure and Environment Committee

From: Chief Engineer and Executive Director, Engineering and Construction Services and Chief Purchasing Officer, Purchasing and Materials Management Division

Wards: 19 & 20

SUMMARY

The purpose of this report is to request authority to amend Purchase Order Number 6049287 with AECOM Canada Ltd., (AECOM) for additional professional services associated with the Crescent Town Pedestrian Bridge Rehabilitation in the amount of \$363,022 net of all taxes and charges (\$369,411 net of HST recoveries).

RECOMMENDATIONS

The Chief Engineer and Executive Director of Engineering and Construction Services and the Chief Purchasing Officer recommend that:

1. The Infrastructure and Environment Committee, in accordance with Section 71-11.1.C of the City of Toronto Municipal Code Chapter 71 (Financial Control By-Law), grant authority to amend Purchase Order No. 6049287 with AECOM Canada Ltd., for the provision of professional services for contract administration and site inspection services during construction of the Crescent Town Pedestrian Bridge Rehabilitation by an additional amount of \$363,022 net of all taxes and charges (\$369,411 net of HST recoveries), revising the current contract value from \$139,182 net of all taxes and charges (\$141,632 net of HST recoveries) to \$502,204 net of all taxes and charges (\$511,043 net of HST recoveries).

FINANCIAL IMPACT

The amendment request included in this report will increase the total contract value by \$363,022 net of all taxes (\$369,411 net of HST recoveries).

Funding for the contract amendment is available in the 2019-2028 Approved Capital Budget and Plan for Transportation Services (City Bridge Rehabilitation Program) as summarized in the table below (net of HST recoveries):

Year	CTP515-01-162
2019	\$ 77,816
2020	\$ 291,595
Total	\$ 369,411

The Chief Financial Officer and Treasurer has reviewed this report and agrees with the financial impact information.

DECISION HISTORY

In February 2012, the City retained AECOM through Request for Expression of Interest (Roster) No. 9117-11-7000, Work Assignment No. TS-DCLI-10-12-001 for the design, contract administration and post construction services for the Crescent Town Pedestrian Bridge Rehabilitation. The total fee for this professional services assignment was \$242,636 net of all taxes and charges. Two purchase orders were subsequently issued to AECOM Canada Ltd., under this assignment: Purchase Order No. 6034966 for design services in the amount of \$103,454 (net of all taxes); and Purchase Order No. 6049287 for contract administration and post construction services in the amount of \$139,182 (net of all taxes).

On August 14, 2019, by authority of the Bid Award Panel, Contract 19ECS-TI-15BE (Tender Call 183-2019) for the Crescent Town Pedestrian Bridge Rehabilitation was awarded to Bob Hendricksen Construction Ltd., (BHCL), in the amount of \$2,345,135 net of all taxes and charges. A copy of the Bid Award Panel Decision Document can be found at: <http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2019.BA39.3>

COMMENTS

Background

The Crescent Town Pedestrian Bridge is located at the Victoria Park Toronto Transit Commission (TTC) Subway Station, north of Danforth Avenue. It carries pedestrians over Victoria Park Avenue between the Subway Station to the east and the Crescent Town residential area to the west.

The Crescent Town Pedestrian Bridge was originally built by the Crescent Town Complex developer in 1970 with five concrete spans supported on four reinforced concrete piers and the east and west abutments. The entire structure is approximately 78.9 m long and 3.96 m wide. The ownership of the bridge was transferred to the City of Toronto in 1972.

The overall configuration of the bridge has not changed since the original construction.

From 2009 to 2011 the TTC undertook the Victoria Park Bus Terminal Replacement adjacent to the subway station. As part of the work, TTC completed aesthetic enhancements to the bridge but did not undertake the rehabilitation of any structural components. The staircase to the subway station at the eastern edge of the bridge was reconstructed by TTC at that time.

Following completion of this work by the TTC, the City issued a Request for Expression of Interest (REOI) for the design, contract administration and post construction services for the Crescent Town Pedestrian Bridge Rehabilitation. A contract was awarded to AECOM in April 2012. However, the design was put on-hold and restarted three times between 2013 and 2019 for various reasons summarized below. This resulted in the issuance of three Purchase Order Amendments (POA's) on the design services purchase order for a total amount of \$255,318 (excluding taxes).

Previous Purchase Order Amendments for Design Services (prior to Construction)

AECOM began work on the design for the Crescent Town Pedestrian Bridge Rehabilitation shortly after contract award in April 2012. However, in February 2013 the local Councillor requested that the City consider building a permanent pathway under the bridge that could be used as an alternate route during construction and once the bridge rehabilitation construction was completed. The City instructed AECOM to suspend the design of the project to allow time to undertake a study to determine the feasibility and costs of building a permanent pathway as part of the existing project. On June 4, 2014 Transportation Services issued a memo to Engineering and Construction Services requesting that the design for a permanent pathway be added to the scope of work for the Crescent Town Pedestrian Bridge Rehabilitation Project. A schematic of the intended pathway alignment was provided as part of the memo from Transportation Services. AECOM was requested to restart the bridge design assignment and a quotation for additional work for the pathway design was provided. A Purchase Order Amendment (POA) of \$37,588 was issued to AECOM on August 27, 2014, which

increased the funding on the design services purchase order from \$103,454 to \$141,041, excluding taxes.

From July 2014 to February 2016, AECOM developed the design of the pathway on the alignment provided by Transportation Services and assisted the City in attempting to obtain easements from Hydro One and Pinedale Properties (the adjacent land owner northwest of the bridge). In order to design the pathway in compliance with Accessibility for Ontarians with Disabilities Act (AODA), the pathway alignment required removal of a large red oak tree. Due to challenges related to the required property easements and the impact to the red oak tree, the project was put on hold again and Transportation Services retained a landscape architect to evaluate alternate alignment options for the permanent pathway.

In May 2018, Transportation Services' landscape architect completed the pre-design report and City Real Estate proceeded to obtain the property easements required to build the pathway along the recommended alignment. Unfortunately, Pinedale Properties refused to grant a permanent easement for the corner of the proposed pathway which would have crossed their property.

On November 2, 2018, Transportation Services advised Engineering and Construction Services that the bridge rehabilitation should proceed without the permanent pathway. AECOM requested additional fees to complete the detailed design and prepare the construction tender documents for the Project in the amount of \$102,061. A POA of \$102,061 was issued on February 6, 2019, which increased the funding for the detailed design services purchase order from \$141,041 to \$243,102, excluding taxes.

Between November 28 and December 4, 2018, AECOM performed a visual condition survey to obtain up-to-date information to establish the scope of rehabilitation work for the development of the detailed design. During this inspection, AECOM raised serious concerns regarding the structural capacity at two of the pier caps, due to the advanced degree of concrete delamination and corrosion of the exposed reinforcing steel in these areas. AECOM recommended that the bridge be closed for emergency repairs. AECOM was requested by the City to design the emergency repair details and provide contract administration services during the installation of temporary structural steel shoring posts. The emergency repair work was undertaken between December 17 and December 21, 2018.

AECOM submitted an additional fee request of \$85,670 for work related to the emergency repair. A POA of \$85,670 was issued on May 5, 2019, which increased the funding on the design services purchase order from \$243,102 to \$328,772, excluding taxes.

Additional Contract Administration Services Required to Complete Construction

Due to the delay in completing the project design, the bridge now requires a major rehabilitation in contrast to the minor works that had originally been planned. In addition, the City requested that AECOM develop a construction staging strategy to reduce the impacts to the community during construction. This new strategy minimizes the total

number of full closures of the bridge, but results in a further increase in the duration of construction.

On August 7, 2019, Purchase Order No. 6049287 in the amount of \$139,182, excluding taxes, was issued to AECOM for contract administration and post construction services, based on their 2012 bid for an estimated twelve (12) weeks of construction, for the original project scope of only minor structural rehabilitation.

The City tendered Contract 19ECS-TI-15BE in June, 2019, with a construction schedule of thirty-four (34) weeks. The tender was awarded by Bid Award Panel to BHCL on August 14, 2019. In order to provide contract administration services for the entire duration of construction, AECOM has submitted a request for an additional twenty-two (22) weeks of contract administration services with an escalation of professional services labour rates from their original 2012 bid.

The cost for additional professional services required to provide construction administration for the full duration of construction is \$363,022 (net of HST recoveries) as summarized in Table 1 below. This includes an additional contingency allowance of \$100,000 to accommodate any further unforeseen issues that may extend the duration of construction, such as the protection or temporary relocation of the CCTV cameras and the state of the deterioration of the piers and pier caps.

Table 1: Breakdown of Costs for Additional Contract Administration Services

Salary Adjustment from 2013 to 2019 for the original base scope for 12 weeks of Contract Administration Services	\$ 26,383
Additional 22 weeks of Contract Administration Services	\$236,639
Contingency Allowance	\$100,000
Total Purchase Order Amendment (net of HST)	\$363,022

The City has reviewed AECOM's estimates for the additional professional services required for the provision of contract administration services for the Crescent Town Pedestrian Bridge Rehabilitation Project and found them to be fair and reasonable for the effort required.

The amendment to Purchase Order No. 6049287 with AECOM Canada Ltd., for the additional contract administration services required to complete the Crescent Town Pedestrian Bridge Rehabilitation, by an amount of \$363,022 (net of HST) will revise the value of the Purchase Order for contract administration services from \$139,182 (net of HST) to \$502,204 (net of HST).

CONTACT

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SIGNATURE

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