

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JANUARY 10, 2017
FROM:	KELLY SCHERR, P. ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	ENGINEERING FEES CONTRACT AMENDMENT: HURON STREET WATERMAIN RIVER CROSSING PROJECT No. EW3580

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to increasing the engineering fees for the Huron Street Watermain River Crossing Project (EW3580):

- (a) The consulting fees for Stantec Consulting Ltd., 600 – 171 Queens Avenue, London, Ontario, N6A 5J7, **BE INCREASED** by \$35,000 from \$343,624 to a revised total of \$378,624 (excluding H.S.T.), for costs associated with contract administration for the Huron Street Watermain River Crossing;
- (b) The financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (c) The consulting fees for the project **BE IN ACCORDANCE** with the estimate, on file, which are based upon the Fee Guideline for the Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.1 (c) of the City of London's Procurement of Goods and Services Policy;
- (d) The Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- (e) The Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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- [Huron Street Watermain Replacement Municipal Class Environmental Assessment - EW3580 - Civic Works Committee Meeting on October 1, 2012, Agenda Item #6](#)
- [Appointment of Consulting Engineer - Huron Street Watermain Replacement Class EA and Preliminary Design - EW3580 - Built and Natural Environment Committee Meeting on May 2, 2011, Agenda Item #17](#)

BACKGROUND

Purpose:

This report recommends an increase in consulting fees in order to complete contract administration services for the Huron Street Watermain River Crossing Project.

Context:

In 2009, a 600mm watermain underneath the Thames River between Huron Street and Philip Aziz Avenue became compromised due to river erosion. During the subsequent years, Stantec Consulting Ltd. was awarded assignments to complete an Environmental Assessment, preliminary design, detailed design, and construction administration and supervision of a replacement of the watermain river crossing. The current report recommends an extension of the assignment resulting from several issues encountered in the field and scheduled delays to facilitate special events at Western University.

DISCUSSION

In 2009, a 600mm watermain underneath of the Thames River between Huron Street and Philip Aziz Avenue had become compromised due to considerable erosion of the river bank since its original installation date in 1959 (Appendix “B” – Location Map). Stantec was engaged to design a temporary emergency repair to protect the exposed watermain at this time knowing that a permanent solution would be needed.

In 2011, Stantec was retained to undertake an Environmental Assessment (EA) to allow for the replacement of the watermain, and to begin a preliminary design for the replacement of the compromised watermain. Stantec’s workplan for these services were approved by council in the amount of \$155,185 (excluding H.S.T.).

Upon completion of the EA and preliminary design, Stantec submitted a work plan for the detailed design of this project that was administratively awarded in January 2015 in the amount of \$90,880 (excluding H.S.T.) The scope of work was subsequently increased administratively by \$97,560 (excluding H.S.T.) in January, 2016 to include construction administration services, bringing the total consulting fees to \$343,624. The project was tendered and the construction contract was administratively awarded in April, 2016. Stantec is currently undertaking the construction administration services for this project.

Several construction issues and the need to facilitate the timing window requirements of Western University has resulted in a three-month increase of the overall construction schedule. Trenchless construction is complex and commonly requires adaptive design adjustments subject to conditions experienced in the field. During construction, the original design location of the watermain was found to be inappropriate due to conditions experienced onsite and the need to maintain the existing watermain in operation. To respond to these challenges an alternative alignment was developed requiring design changes and drawing updates. In addition, to these technical challenges, construction timing challenges had an impact on the project schedule. The area of construction is within the university campus and adjacent to TD Stadium. As such, construction timing has been scheduled to adjust to the needs of Western University to meet their obligations for special events (Mustang Football Games). Although trenchless technologies may be more complex and require adaptive design changes based on site conditions, they are from an environmental impact perspective far superior when compared to traditional open cut methods.

These adaptive design changes and the expanded timeline has resulted in additional consulting costs. Stantec’s fee estimate of \$35,000 is appropriate given the circumstances and is consistent with the Ontario Society of Professional Engineer’s Fee Guideline for Professional Engineering Services.

CONCLUSION

It is recommended that an increase in Stantec's contract administration fees, in the amount of \$35,000, bringing the total fees for this project to \$378,624 (excluding H.S.T.),

be authorized to allow for the completion of the project with appropriate consultant oversight. The use of Stantec is in the best financial and technical interests of the City.

PREPARED BY:	REVIEWED & CONCURRED BY:
SCOTT MATHERS, P. ENG., MPA DIVISION MANAGER WATER ENGINEERING	JOHN LUCAS, P. ENG. DIRECTOR, WATER AND WASTEWATER
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER	

December 19, 2016

Attach: Appendix "A" – Sources of Financing
Appendix "B" – Location Map

CC. Stantec Consulting Ltd.
John Freeman – Manager, Purchasing & Supply