

Agenda Item #	Page #

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 21, 2014</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>COMMISSIONERS ROAD WEST WIDENING WONDERLAND ROAD SOUTH TO VISCOUNT ROAD CONSULTING ENGINEER ASSIGNMENT INCREASE</b>

<b>RECOMMENDATION</b>
-----------------------

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to Commissioners Road West Widening project from Wonderland Road South to Viscount Road:

- (a) the value of the design assignment with Delcan Corporation, **BE INCREASED** by \$159,714 to a new upset limit of \$519,106 (excluding H.S.T.) in accordance with Section 20.3 (e) of the Procurement of Goods and Services Policy;
- (b) the financing for this project **BE APPROVED** as set out in the Source of Financing Report attached hereto as Appendix 'A'; and,
- (c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
--

- Environment and Transportation Committee – December 12, 2005 – Environmental Study Report
- Environment and Transportation Committee – November 16, 2009 – Appointment of Consulting Engineer

<b>BACKGROUND</b>
-------------------

**Purpose**

This report seeks the approval of the Council to increase the value of the consultant design assignment for the Commissioners Road West Widening from Wonderland Road to Viscount Road.

The Commissioners Road West Widening Class Environmental Assessment commenced in 2003 and was approved in 2006. The detailed design assignment was awarded in 2009 to accommodate a proposed construction year of 2012. As a result of funding constraints, construction of the project was subsequently deferred until 2015. Since that time several new issues regarding the condition of existing sewers and water supply systems have arisen in areas adjacent to and within the corridor in addition to some minor changes in design requirements. With this report, it is proposed to expand the scope of the consultant's design assignment to address these new infrastructure needs as part of this project.

--	--

<b>DISCUSSION</b>
-------------------

**Context**

The Commissioners Road West Widening from Wonderland Road South to Viscount Road was identified in previous Transportation Master Plans (TMP) and confirmed in the recent 2030 Smart Moves TMP. The project is also identified in the Growth Management Implementation Strategy (GMIS). The Environmental Assessment (EA) for these improvements was completed in December of 2005. The project limits are as shown in Appendix “B”.

The additional capacity on Commissioners Road West completes a missing arterial road link upgrade and reduces traffic delays. The project includes the construction of five lanes, two in each direction plus a center turning lane, with bicycle accommodation and sidewalks. Upgrades to storm, sanitary sewers and watermains are also being coordinated with this project to achieve cost efficiencies and to reduce road user impacts.

The design assignment was awarded to Delcan Corporation in November 2009 at a value of \$359,392.00 excluding HST. After initiation of the design assignment, the project construction year was deferred to 2015 so design activities were put on hold. The project deferral was one of several included a Development Charges By-Law Appeal Settlement that was approved by Council and the London Development Institute in October 2010.

**Project Scope Additions**

In the time that has passed since the original project deferral, several new issues regarding the condition of existing sewers and water supply systems have arisen in areas adjacent to and within the corridor along with some minor design requirements. It is proposed to address these new concerns as part of this project.

Watermain

The existing 900 mm diameter trunk watermain along Commissioners Road was constructed of reinforced concrete over 40 years ago. Due to recent concerns which have arisen along other corridors and also the Lake Huron Water Supply, it is recommended that additional investigations be conducted to verify the condition and integrity of the existing pipe. The investigation will consist of excavation of several sections of pipe to conduct corrosion testing, soil sampling and concrete testing. Based on the results of the investigation, repairs, rehabilitation or complete replacement may be required. These test results will also provide some indication of the potential condition of the watermain beyond these project limits from Springbank Reservoir to Wharncliffe Road.

In addition to the trunk watermain, there are eight existing chambers containing valves, vents and drains. Recent changes to regulations and design requirements governing service chambers has necessitated a re-review of the condition and configuration of these chambers. The review will determine if the chambers can be modified to address the new requirements or if complete replacement is required.

Sanitary Sewer

Since the initial design works had commenced, several new issues regarding the existing sanitary sewers immediately east of the project limits have arisen. The City’s Sewer Operations Division has been called upon on an increasing frequency to flush and clean the existing sanitary sewer system on Commissioners Road at Huxley Street near the east limit of the project due to recurring debris build-up. This increased flushing and cleaning is required to reduce the risk of sewer blockage, but has resulted in increased maintenance costs. In addition, there is zoning and potential rezoning being considered to support development in the area that will require the Consultant to perform a detailed review the sanitary drainage area and design. Preliminary review indicates that replacement of a 260 m long section of sewer may be required as a permanent solution to both of these issues. Including this sewer work in the road widening contract will achieve cost efficiencies and minimize road user impacts associated with future sewer work on Commissioners Road.

Transportation

The process for the installation of roadway signs has changed since the design assignment was awarded in 2009. Consultants are now required to include specifications and drawings for the design and placement of roadway signage by the Contractor. This eliminates any coordination issues and potential liability associated with delayed installation by City forces.

Fee Escallation

The design assignment was restarted approximately 4.5 years after initiation. The consultant rates have escalated since and a corresponding rate increase has been requested by the consultant for the delayed work only.

**Estimated Costs**

The costs of the items noted above are summarized in the following table:

Category	Fee Estimate*
Water	\$107,100
Sanitary Sewer	\$41,078
Transportation	\$3,740
Fees Adjustment	\$7,796
<b>Total</b>	<b>\$159,714</b>

*\* Estimated costs exclude HST.*

Infrastructure needs are being coordinated with Water Engineering and Wastewater & Drainage Engineering. Staff from the appropriate Divisions within Environmental and Engineering Services have reviewed the scope and fees with the consultant. The fees identified are recommended as fair and providing value to the City.

As is common for large road projects, the Transportation project account will assist in funding a share of the additional design phase investigations to be conducted to verify the condition and integrity of the existing trunk watermain along Commissioners Road. These costs will be rationalized and allocated to the appropriate infrastructure accounts at the time of construction tender award in 2015.

<b>CONCLUSION</b>
-------------------

The 2010 project deferral has resulted in an extended pause in this design assignment. These additional infrastructure maintenance concerns and changes in design requirements are beyond the original scope of the detailed design assignment awarded in 2009. Additional information has been obtained during this period and additional lifecycle renewal work is recommended. The proposal from Delcan represents a value-added opportunity for the City to achieve the completion of this work in a cost-effective manner. Sufficient funds are available to complete the assignment with these additional items.

Staff is recommending that the design assignment with Delcan Corporation for the Commissioners Road West Widening project from Wonderland Road South to Viscount Road, be increased by \$159,714 to a new upset limit of \$519,106.00 (excluding H.S.T.).

Agenda Item #

Page #

--

--

**Acknowledgements:**

This report was prepared with assistance from Max Kireev, Technologist II and Ted Koza, P. Eng., of the Transportation Planning and Design Division with input from Water Engineering and Wastewater and Drainage Engineering Divisions.

<b>PREPARED BY:</b>	<b>REVIEWED &amp; CONCURRED BY:</b>
<b>DOUG MACRAE, P. ENG. DIVISION MANAGER TRANSPORTATION PLANNING &amp; DESIGN</b>	<b>EDWARD SOLDI, P. ENG. DIRECTOR, ROADS AND TRANSPORTATION</b>
<b>RECOMMENDED BY:</b>	
<b>JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>	

c: Henry Huotari, Delcan  
Pat Shack  
Marta Semeniuk

Attachments: Appendix 'A' – Source of Financing  
Appendix 'B' – Project Map

Agenda Item #

Page #

## Appendix 'B'

### Project Map



 - Road Widening