



## **Staff Report for Committee of the Whole Meeting**

**Date of Meeting:** July 3, 2018

**Report Number:** SREIS.18.010

**Department:** Environment and Infrastructure Services

**Division:** Design and Construction Services

**Subject:** Yonge Street Bus Rapid Transit (BRT) -  
Additional Third Party Town Works

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### **Purpose:**

The purpose of this report is to seek Council's approval on funding for additional third party Town works to be performed by York Region Rapid Transit Corporation (YRRTC) as part of the Yonge Street BRT construction.

### **Recommendation(s):**

- a) That an additional \$925,759 be approved and sourced from the Water Reserve Fund for the additional watermain works on Yonge Street as part of the Yonge Street BRT;
- b) That an amount of \$261,600 be approved and sourced from the Water Quality Protection Reserve Fund for the design and construction of the culvert replacement on Yonge Street south of the Richmond Heights Plaza driveway entrance.

### **Contact Person:**

Lucius Maitre, Manager, Municipal Engineering Design, ext. 6325

### **Report Approval:**

**Submitted by:** Italo Brutto, Commissioner of Environment and Infrastructure Services

**Approved by:** Neil Garbe, Chief Administrative Officer

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### **Background:**

In May 2014, the Town entered into a Cooperative Procurement with YRRTC for the provision of various third party works as part of the design-build contract for the Yonge Street BRT project. The third party works requested by the Town included watermain and storm water sewer repairs and replacements and some landscaping enhancements at Garden Avenue within the BRT project corridor. The project has progressed significantly and additional design and construction requirements have been identified which now requires Council's approval to secure additional funding to undertake the associated improvements.

### **Watermain Re-alignment**

In May 2014 Council approved \$1,103,956 inclusive of HST for watermain works to be performed by YRRTC. This cost was based on the premise that most of the watermain would be constructed in the boulevard within the segment of the Yonge Street BRT project between Highway 7 and Major Mackenzie Drive (Y2.1). As the design evolved, it was determined that the proposed watermain construction within the proposed boulevard needed to be relocated to the roadway given that the boulevard was congested with utilities and the inability to achieve the required separation of the watermain with the utilities. Further, as the boulevard was being designed with landscape enhancements such as raised concrete planters and other features the Town's ability to maintain the watermain in the future would be significantly hampered and would have a high increased restoration cost.

The revision of the watermain alignment into the travelled road resulted in additional design and construction costs. This additional cost is primarily due to the need to restore the road versus a boulevard (which is generally much more expensive), the high level of construction staging and traffic control requirements to undertake a watermain construction project within a major arterial corridor like Yonge Street while maintaining the movement of traffic and access to adjacent businesses and; the significantly lower rate of production when constructing within a very busy traffic corridor.

Given that the watermain is within the YRRTC project limits and was partially affected by the YRRTC construction activity, the Town and YRRTC staff agreed on a project cost sharing agreement where 60% of the total watermain project cost would be covered by YRRTC and 40% by the Town. The Town's portion of the total additional watermain re-alignment cost is estimated to be \$2,437,103 inclusive of a 15% contingency plus, HST and, administrative fees.

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### Culvert Replacement near Richmond Heights Plaza Driveway

During construction YRRTC discovered and advised the Town that the existing Town owned box culvert on Yonge Street located just south of the Richmond Heights plaza entrance is in very poor condition and must be replaced to: a) satisfy the drainage requirements of the surrounding properties; b) to accommodate drainage from the expanded road from 4 to 6 lanes; and c) ensure future integrity of the BRT works on Yonge Street.

The culvert replacement work was not included in the original Council approved capital budget as it was unforeseen work which was only discovered during construction. A cost sharing arrangement was agreed to with YRRTC where 33.33% of the replacement cost would be covered by YRRTC (to cover their apportioned share to use the culvert), and 66.67% by the Town as the culvert is owned by the Town. The Town's portion of the culvert replacement cost is estimated to be \$261,600, inclusive of HST.

### Financial/Staffing/Other Implications:

#### Committed Funding to date

In May 2014, the Town provided Confirmation of Funding of \$1,103,956 of a total capital approved watermain budget of \$2,615,300 to YRRTC for the third party works related to watermain.

#### Additional Budget Required

The additional budget requirements related to watermain works are summarized in Table 1 below.

<b>Table 1- Watermain Works</b>	<b>Amount</b>
Approved Capital Budget	\$2,615,300
Less Committed Funding to Date to YRRTC	\$1,103,956
<b>Total Available Watermain Capital Budget</b>	<b>\$1,511,344</b>
Less Additional Watermain Re-Alignment Cost	\$2,437,103
<b>Watermain Project Budget Deficit</b>	<b>(\$925,759)</b>

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Based on the current approved budget and committed funding to date, there is insufficient budget to cover the cost related to the aforementioned watermain works. As a result, an additional budget allocation of \$925,759 is requested from the Water Reserve Fund to cover the additional watermain works.

Further a budget allocation of \$261,600, inclusive of HST, is requested from the Water Quality Protection Reserve Fund to cover the Town's share of the Richmond Heights culvert replacement work.

### **Relationship to the Strategic Plan:**

Coordination of Town infrastructure improvements in conjunction with the Region on road and transit projects is aligned with Goal Four of the Strategic Plan – Wise Management of Resources in Richmond Hill.

### **Conclusion:**

Staff recommends that Council endorses and approves funding as outlined in this report to cover the cost for the inclusion of additional third-party works to be performed by YRRTC's Design-Build Contractor, related to watermain re-alignment, and storm water culvert replacement near Richmond Heights Plaza entrance.

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### Report Approval Details

Document Title:	SREIS.18.010.docx
Attachments:	
Final Approval Date:	Jun 21, 2018

This report and all of its attachments were approved and signed as outlined below:

**Stephen Fick - Jun 19, 2018 - 12:33 PM**

**Italo Brutto - Jun 19, 2018 - 4:19 PM**

**Neil Garbe - Jun 21, 2018 - 2:43 PM**