
REPORT TITLE: Detailed Design and Contract Administration for Queen Street West Improvements, Capital Project 05-4045, City of Brampton, Ward 5

FROM: Andrew Farr, Interim Commissioner of Public Works

RECOMMENDATION

That the contract (Document 2007-511P) for the detailed design, contract administration and construction inspection services for Queen Street West (Regional Road 6) improvements, between the Region of Peel and AECOM Canada Limited (formerly TSH Engineers, Architects and Planners) be extended to include additional engineering services in the amount of \$250,000 (excluding applicable taxes), for a total contract commitment of \$3,376,960 (excluding applicable taxes), under Capital Project 05-4045, in accordance with Procurement By-law 30-2018, as amended.

REPORT HIGHLIGHTS

- The Region of Peel retained AECOM Canada Limited (AECOM) in 2007 to provide detailed design, contract administration and construction inspection services for Queen Street West improvements from Mississauga Road to Chinguacousy Road in Brampton.
- In order to meet development requirements along Queen Street West, water/wastewater servicing was constructed prior to road improvements proceeding.
- This phasing resulted in several scope changes for road improvements that could not be foreseen at the time the contract was initiated in 2007.
- Key changes to the scope of the project are the addition of Low Impact Design (LID) stormwater management technology, alternate culvert designs, the addition of traffic signals at Elbern Markell Drive and modifications to access at Walden International School.
- Staff recommend that the current contract for the detailed design, contract administration and construction inspection services with AECOM be extended accordingly.
- There are sufficient funds available in the approved budget Capital Project 05-4045 to complete the additional engineering scope of work.
- The project is under construction and is anticipated to be substantially complete in the fall of 2020.

DISCUSSION

1. Background

The Region of Peel is undertaking Queen Street West road improvements from Mississauga Road to Chinguacousy Road in Brampton, pursuant to the Environmental Study Report completed in 2006 and per the award of the consulting assignment to AECOM in 2007

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through Council Resolution 2007-1524, to provide detailed design, contract administration and construction inspection services.

This project involves the widening of Queen Street West from two lanes to five lanes, construction of a multi-use trail, installation of a storm sewer and intersection widening at Creditview Road and James Potter Road.

2. Additional Scope of Work

In order to meet development requirements along Queen Street West, water/wastewater servicing was required in advance of road improvements. However, to provide consistency and efficiency in design, it was desirable to undertake the design of the water/wastewater infrastructure and the road improvements as two separate contracts under a single design consultant. The two contracts were constructed one after the other rather than at the same time.

This construction staging allowed the large-scale water and wastewater infrastructure project to commence in 2012, and the road improvements to proceed shortly thereafter in 2016. The road improvement works are now nearing completion. The overall timeframe for this project has been lengthy owing to the complexity of the work, various challenging constraints within the project area, as well as complexities related to compliance with the *Endangered Species Act, 2007*.

Phasing of the utility relocation work prior to road construction, while desirable from a technical and development servicing point of view, has led to an overall lengthening of the consulting assignment. As time has elapsed several scope changes that could not be foreseen at the time the contract was initiated in 2007 have arisen.

- LID stormwater technology - This modification, now required by the Credit Valley Conservation and the Ministry of the Environment, Conservation and Parks, has significant benefits for the environment. However, implementation requires additional engineering services for design, permitting and contract administration.
- Changes in the materials and design of various culverts – Improvements to the Region's standards for culverts over time has led to additional engineering effort for design and inspection.
- Addition of traffic signals at Elbern Markell Drive and modifications to the access at Walden International School - These changes increase pedestrian, cycle and driver safety but required additional design effort to implement.
- Claims during construction – Over the course of the road construction contract, claims by the contractor over and above what is typical for this size of project had to be reviewed by the consultant and led to additional engineering effort.

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3. Proposed Direction

AECOM has provided an estimate in the amount of \$250,000 for additional engineering services to complete the project. Staff have reviewed the estimate and conclude that it provides good value in relation to the additional work performed.

In accordance with Section. 5.5.2 of the Procurement By-law 30-2018, as amended, and approval authorities outlined in Purchasing Procedure F35-05 Purchase Orders and Vendor Contracts, the process to extend this contract requires Regional Council approval.

Staff therefore recommend that the current contract for the detailed design, contract administration and construction inspection services with AECOM Canada Limited be extended accordingly.

RISK CONSIDERATIONS

Queen Street West road improvements from Mississauga Road to Chinguacousy Road are being completed pursuant to the Environmental Study Report completed in 2006 and Council Resolution 2007-1524, which awarded the design and contract administration engineering assignment to AECOM.

Not continuing with AECOM's engineering and administration services for the completion of this project would require the Region to competitively bid the work and potential retain an alternate consultant to complete the works. This approach could impact the cost and timing of project delivery. An alternate consultant would not be familiar with the engineering requirements and history of the project and would require additional time and resources to familiarize themselves before undertaking the remaining works.

FINANCIAL IMPLICATIONS

Staff recommend that the current contract for the detailed design, contract administration and construction inspection services for Queen Street West between the Region of Peel and AECOM Canada Limited be extended to include additional engineering services in the estimated amount of \$250,000 (excluding applicable taxes), for a total contract commitment of \$3,376,960.

Funds are available in the approved project budget to carry out the additional works.

APPENDICES

Appendix I - Project Map Location

**Detailed Design and Contract Administration for Queen Street West Improvements,
Capital Project 05-4045, City of Brampton, Ward 5**

*For further information regarding this report, please contact Finbarr Mulcahy, Project Manager,
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Authored By: Finbarr Mulcahy.

Reviewed and/or approved in workflow by:

Department Commissioners, Division Directors, Financial Support Unit and Procurement.

Final approval is by the Chief Administrative Officer.

A handwritten signature in black ink that reads "Nancy Polsinelli". The signature is written in a cursive style with a horizontal line under the name.

N. Polsinelli, Interim Chief Administrative Officer