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| TO: | CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON AUGUST 12, 2019 |
| FROM: | KELLY SCHERR, P. ENG, MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER |
| SUBJECT: | VICTORIA BRIDGE REPLACEMENT GEOTECHNICAL & HYDROGEOLOGICAL ENGINEERING APPOINTMENT OF CONSULTING ENGINEER |

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| RECOMMENDATION |
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That on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer the following actions **BE TAKEN** with respect to the appointment of a Consulting Engineer for the Victoria Bridge Replacement Project:

- (a) Golder Associates Ltd. **BE APPOINTED** as a Consulting Engineer for Geotechnical and Hydrogeological Services associated with the Victoria Bridge Replacement Project at an upset amount of \$121,220.00 (excluding HST) in accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy;
- (b) the financing for this assignment **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix A;
- (c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this assignment;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and,
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents including agreements, if required, to give effect to these recommendations.

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| PREVIOUS REPORTS PERTINENT TO THIS MATTER |
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- Strategic Priorities and Policy Committee – January 28, 2016 – Downtown Infrastructure Planning and Coordination
- Civic Works Committee – November 1, 2016 – Environmental Assessment Appointment of Consulting Engineer
- Strategic Priorities and Policy Committee – November 21, 2017 – Downtown Infrastructure Construction Project Coordination
- Civic Works Committee – June 19, 2018 – Victoria Bridge Environmental Study Report
- Civic Works Committee – July 23, 2019 - Victoria Bridge Replacement Detailed Design & Tendering Appointment of Consulting Engineer

COUNCIL'S 2019-2023 STRATEGIC PLAN

The following report supports the Strategic Plan through the strategic focus area of Building a Sustainable City by building new transportation infrastructure to meet the long term needs of our community.

BACKGROUND

Purpose

This report recommends the appointment of a consulting engineer to complete the required geotechnical and hydrogeological engineering services for the Victoria Bridge replacement project.

Context

The Victoria Bridge (6-BR-19) located on Ridout Street South spans the South Branch of the Thames River, just south of Horton Street. The bridge carries two lanes of traffic on Ridout Street over the South Branch of the Thames River in the northbound and southbound directions and serves as an important link to downtown and Old South/Wortley Village. The Schedule C Class Municipal Environmental Assessment for this bridge was completed in July 2018 and recommended the full replacement of this structure.

On July 30, 2019, the City Council appointed AECOM as the Consulting Engineer for the detailed design and tendering for the Victoria Bridge replacement project. The geotechnical and hydrogeological engineering services is a separate assignment that will provide essential engineering support services for the detailed design. Golder Associates will be working collaboratively with AECOM.

DISCUSSION

The detailed design for the Victoria Bridge replacement project is very complex and involves multiple engineering fields. The geotechnical and hydrogeological engineering was determined to be one of the most critical components of the detailed design that requires expertise from a specialized consultant and therefore a separate procurement process was initiated to ensure value for money for this specialized service.

Consulting Assignment

The scope of the geotechnical and hydrogeological assignment consists of the following major components:

- Geotechnical subsurface investigation to support detailed design for the structural and civil components of the new bridge foundations, approaches, temporary pedestrian bridge, retaining walls, pavement and utility relocations;
- Soil sampling and chemical analysis of potentially contaminated soils;

- Preparation of a Geotechnical Investigation and Design Report that will include a detailed description of subsurface conditions, summary of geotechnical analytical results, groundwater conditions, recommendations for excavations and temporary excavation support;
- Groundwater monitoring and sampling to collect subsurface hydrogeological information and determine ground water quality;
- Submitting required applications to the Ministry of the Environment Conservation and Parks; and,
- Preparation of a Hydrogeological Report which will include a summary of existing conditions, testing/sampling results, quantification of dewatering/depressurization requirements, water discharge plan, and detailed impact assessment.

Consultant Procurement

Following the objectives of the Procurement of Goods and Services Policy, to obtain the best value for services through a competitive process, a Request for Proposal (RFP) process was initiated. In accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy, three prequalified consultants that are capable of delivering the required services were invited to submit their proposals. Proposals were received from all three consultants on July 9, 2019. The selection committee evaluated the proposals against an established evaluation criteria which included the experience and qualifications of the consultant team as well as their approach, methodology and schedule to complete the required work.

The evaluation committee determined that the submission from Golder Associates engineering firm provides the best value for the City. Golder Associates has experienced project team members with the required qualifications and expertise. Their proven experience on similar projects combined with a project proposal that demonstrated a thorough understanding of the goals and objectives determined their suitability for this assignment.

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| CONCLUSION |
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Golder Associates has demonstrated an understanding of the requirements for this project. Based on the competitive consultant procurement process, it is recommended that Golder Associates be appointed to undertake the geotechnical and hydrogeological engineering services to provide support to the detailed design for the replacement of the Victoria Bridge in the amount of \$121,220.00 (excluding HST).

There are no anticipated additional annual operating costs to the Environmental and Engineering Services Department associated with this assignment.

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| PREPARED BY: | REVIEWED & CONCURRED BY: |
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| GARFIELD DALES, P. ENG. DIVISION MANAGER TRANSPORTATION PLANNING & DESIGN | DOUG MACRAE, P. ENG., MPA DIRECTOR ROADS AND TRANSPORTATION |
| RECOMMENDED BY: | |
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| KELLY SCHERR, P. ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER | |

Attach: Appendix A: Source of Financing

c: Daniel Babcock, Golder Associates Ltd.
G. McDonald/J. Pucchio, AECOM Canada Ltd.