



Structural Assessment & Design Services Triennial Contract

Date: May 8, 2018
To: TTC Board
From: Chief Capital Officer

Summary

The purpose of this report is to obtain authorization for the award of Contract G85-365, Structural Assessment & Design Services - Triennial Contract in the upset limit amount of \$12,000,000, inclusive of all taxes on the basis of highest total weighted scores, to the following companies:

AECOM Canada Ltd.	\$2,000,000
Morrison Hershfield Limited	\$2,000,000
LEA Consulting Ltd.	\$2,000,000
SNC-Lavalin Inc.	\$2,000,000
Parsons Inc.	\$2,000,000
HDR Corporation	\$2,000,000
Total Overall Upset Limit Amount	\$12,000,000

The work included in this Request for Proposal (RFP) is for the provision of professional structural assessment and multi-discipline design services consisting of safety surveys, condition assessments, structural evaluations, detailed design, and engineering support during construction for the rehabilitation of existing TTC facilities. These include bridges, tunnel structures, running structures, subway stations, vent shafts, and retaining walls under the 5 year Capital Program. The work will be carried out on an as-required basis on approved capital projects, over a period of three years.

Recommendations

It is recommended that the Board authorize:

1. Award of Contract G85-365, Structural Assessment & Design Services - Triennial Contract in the upset limit amount of \$12,000,000, inclusive of all taxes on the basis of highest total weighted scores, to the following companies:

AECOM Canada Ltd.	\$2,000,000
Morrison Hershfield Limited	\$2,000,000
LEA Consulting Ltd.	\$2,000,000
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HDR Corporation	\$2,000,000

Total Overall Upset Limit Amount	\$12,000,000
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Financial Summary

Sufficient funds for this expenditure are included in the TTC's 2018-2027 Capital Budget under the following:

Project No. 6974 – 3.4 Structural Paving Rehabilitation Program, which was approved by City Council on February 12, 2018; and

Project No. 6975 – 3.4 Bridges/Structures Maintenance Program, which was approved by City Council on February 12, 2018.

The Chief Financial Officer has reviewed this report and agrees with the financial impact information.

Equity/Accessibility Matters

Design Assignments will be in accordance with TTC design standards and AODA/Ontario Building Code.

Decision History

No prior Decision History.

Issues Background

The work included in this Request for Proposal (RFP) is for the provision of professional structural assessment and multi-discipline design services consisting of safety surveys, condition assessments, structural evaluations, detailed design, and engineering support during construction for the rehabilitation of existing TTC facilities. These include bridges, tunnel structures, running structures, subway stations, vent shafts, and retaining walls under the 5 year Capital Program. The work will be carried out on an as-required basis on approved capital projects, over a period of three years.

The Bridges and Tunnels Program is comprised of various State of Good Repair projects including the on-going rehabilitation of the TTC Bridges/Structures Maintenance and Structural Paving Rehabilitation Programs. The TTC Capital Program requires considerable use of structural engineering services. In-house engineering will be used to provide some of these planned engineering assignments; however, they do not possess sufficient staff to perform all of the required tasks to support various projects under the Bridges and Tunnels Program.

Comments

A Request for Proposal was publicly advertised on the TTC's Website and Merx Web site as of March 9, 2018. Twenty-eight companies downloaded copies of the proposal documents out of which 15 submitted a proposal by the closing date of April 5, 2018. The proposal document stated that the TTC intended to award up to six contracts for the three-year period. It was also pre-determined that any proponent who scored a total qualitative rating of at least 70% would be considered qualified.

The Contracts are being administered on a Work Assignment Release basis. For any Work Assignments, the TTC reserves the right to obtain a Work Plan from any one or more Consultants for competitive bidding. The final allocation of the funds will be determined by the total work assignments performed by the individual firms.

Evaluation of the Proposal Submissions

All proposals received were reviewed for commercial compliancy and the proposals that appeared to be compliant were rated by the evaluation team.

A team consisting of three staff, one from Subway Infrastructure Department, one from Construction Department and one from Materials and Procurement Department, evaluated the qualitative portion of the proposals in accordance with the criteria set out in the proposal and as listed in the attached Appendix A.

The recommendation for award is based on the six highest total weighted scores. The evaluation of proposals was based on a two envelope process and consisted of qualitative and pricing components, with 70 points allocated to the qualitative merit and 30 points allocated to the pricing. Proposals were first scored based on qualitative criteria at the associated weightings as set out in the proposal documents. It was pre-determined that proposals achieving a total minimum of 49 points out of the maximum 70 points available for the qualitative evaluation would be considered qualified. The pricing component of all qualified proponents was then evaluated, utilizing the percentage dedication for the pre-defined key staff positions, as set out in the proposal documents for evaluation purposes only, and then subsequently used to determine a composite hourly billing rate. The total weighted score was calculated as a sum of the weighted qualitative score and the weighted pricing score.

Seven companies passed the qualitative evaluation bar and had their pricing component evaluated.

The following companies had the highest total weighted scores and are recommended for award of contracts:

AECOM Canada Ltd.
Morrison Hershfield Limited
LEA Consulting Ltd.
SNC-Lavalin Inc.
Parsons Inc.
HDR Corporation

The six recommended firms have previously satisfactorily performed work for the TTC. The composite hourly rate for all six proponents is considered reasonable, based on comparable past TTC awards.

Contact

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Signature

Susan Reed Tanaka
Chief Capital Officer

Attachments

Appendix A – Evaluation Criteria

APPENDIX A

Structural Assessment Design Services – Triennial Contract

Evaluation Criteria

- A. Corporate Qualifications/Experience
 - Number of years in business
 - Depth of available resources
 - CADD Facilities, TTC CADD Standards
 - Relevant corporate experience

- B. Project Team Qualifications/Experience
 - Number of years of related experience
 - Number of years of direct experience
 - Technical qualifications
 - Relevant experience by project

- C. Pricing