



Relief Line South – Systems Design and Management Consultant

Date: April 11, 2018
To: TTC Board
From: Chief Capital Officer

Summary

The purpose of this report is to obtain authorization for the award of contract G85-358 for Systems Design and Management Consultant for the Relief Line South (RLS) project. Systems elements include trackwork, traction power and supervisory controls, signals, related operations control centre requirements, fire life safety and systems integration.

The work of this contract will advance the preliminary design of the RLS, based on the approved alignment, to a Class 3 cost estimate and schedule. At completion of this stage gate, a report will be presented to the TTC Board and City Council which is anticipated in the fourth quarter of 2019.

Recommendations

It is recommended that:

1. The Board authorize the award of Contract G85-358 for Systems Design and Management Consultant for the Relief Line South (RLS) to Hatch - Parsons Joint Venture, in the upset limit amount of \$6,000,000, in Canadian funds, with a duration of two years from the Notification of Award, on the basis of highest total weighted score.

Financial Summary

Sufficient funds are included in the Relief Line Capital Project for this requirement as approved in the 2018-2027 Capital Budget and Plan by Council on February 12, 2018.

While approved funding will support the work required to develop a Class 3 cost estimate for the project, the Federal and Provincial governments recently announced up to \$8.9 billion in funding to the City of Toronto to improve capacity of public transit infrastructure; improve quality and safety of existing and future transit systems; and improve access to public transit systems.

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

Equity/Accessibility Matters

The RLS will be designed and constructed to be accessible.

Decision History

The TTC's 2017-2026 Capital Budget includes \$55.52M for preliminary RLS design, as approved by City Council on February 15, 2017. The Province committed \$150M to Metrolinx to work with the City and TTC to advance planning and design of the RLS. A Memorandum of Understanding is being prepared with Metrolinx and the TTC to define roles and responsibilities and to share the total costs of work required to develop a Class 3 cost estimate for the project. Metrolinx will provide \$45M in funding to undertake this work.

At its meeting of July 12 to 16, 2016, City Council approved the Pape-Eastern-Queen alignment for the RLS, subject to assessment of an additional alignment segment, west of Pape Avenue, starting immediately north of the GO tracks on Pape Avenue to south of Queen Street, with a station box at Queen Street and Carlaw Avenue.

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2016.EX16.1>

In May 2017, City Council approved the following:

- The segment of the Relief Line South from immediately north of the GO tracks at Gerrard Avenue East south to Queen Street East;
- Commencement of the Transit Project Assessment Process;
- Advance the planning and design of the RLS based on the recommended alignment and report to City Council when a Class 3 cost estimate and schedule have been developed for the project, which is anticipated to be in the fourth quarter of 2019; and
- The City Manager to negotiate and enter into a Memorandum of Understanding with Metrolinx and TTC to define roles and responsibilities and the cost-sharing agreement between Metrolinx, the City of Toronto and Toronto Transit Commission to complete the planning and design work required to develop a Class 3 cost estimate and schedule for the RLS.

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2017.EX25.1>

At its meeting of February 15, 2018, the Board approved the award of Contract G85-355 for Geotechnical Consulting Services for the RLS project:

[http://www.ttc.ca/About the TTC/Commission reports and information/Commission meetings/2018/February 15/Reports/14 Relief Line South Geotechnical Consulting Services.pdf](http://www.ttc.ca/About%20the%20TTC/Commission%20reports%20and%20information/Commission%20meetings/2018/February%2015/Reports/14%20Relief%20Line%20South%20Geotechnical%20Consulting%20Services.pdf)

At its meeting of March 20, 2018, the Board approved the award of Contract G85-356 for Tunnel Design for the RLS project:

[http://www.ttc.ca/About the TTC/Commission reports and information/Commission meetings/2018/March 20/Reports/12 Relief Line South Tunnel%20Design.pdf](http://www.ttc.ca/About%20the%20TTC/Commission%20reports%20and%20information/Commission%20meetings/2018/March%2020/Reports/12%20Relief%20Line%20South%20Tunnel%20Design.pdf)

Issue Background

City of Toronto, Metrolinx and TTC staff are collaborating to advance the preliminary design for the RLS project.

This report recommends the retention of a consultant to provide systems design and management services. In addition to tunnels and stations, systems are a key component of the RLS project. System elements include track work, traction power, communications, Supervisory Control and Data Acquisition (SCADA), signal systems and tunnel/station ventilation.

Contract work will be administered on a work assignment release basis. Work will only begin as authorized by TTC staff in the form of a work assignment release, and payment for services will be based on the actual work performed at the approved billing rates.

The work of this contract will advance the preliminary design of the RLS, based on the approved alignment, to a Class 3 cost estimate and schedule. At completion of this stage gate, a report will be presented to the TTC Board and City Council which is anticipated in the fourth quarter of 2019.

Comments

A Request for Proposals was publicly advertised on the Merx website as well as the TTC's website as of November 14, 2017. Proposal documents were downloaded by 30 companies, out of which three submitted a proposal by the closing date of January 15, 2018.

Before commencing the evaluation, all proposals were reviewed for commercial compliancy. The three proposals were considered compliant and rated by the TTC and the Metrolinx evaluation team on the qualitative aspects of the proposal using the associated weightings described in the proposal document. The proposals that scored a total qualitative rating of 70 or better were considered qualified, and the pricing components for these submissions were opened for inclusion in the evaluation. The evaluation criteria are described in Attachment 1.

The following two firms achieved a score of 70% or more, based on the qualitative evaluation and had their pricing components evaluated:

- Hatch - Parsons Joint Venture; and
- WSP Canada Inc.

Of these, the following company had the highest total weighted score and is recommended for award:

- Hatch - Parsons Joint Venture

Both Hatch Corporation and Parsons Inc. have satisfactorily performed work of a similar size and nature for the TTC in the past.

By awarding contract G85-358 – Systems Design and Management Consultant, the systems design will proceed to support the advancement of the RLS preliminary design.

Contact

Pierre Laurin, Head of Engineering
416-590-6973
Pierre.Laurin@ttc.ca

Signature

Susan Reed Tanaka
Chief Capital Officer

03080-104-69

ATTACHMENT 1

RELIEF LINE SOUTH – SYSTEMS DESIGN AND MANAGEMENT CONSULTANT

EVALUATION CRITERIA

A. Corporate Qualifications

- Background and capabilities
- Number of years in business
- Depth of available resources
- Relevant corporate experience

B. Staff Qualifications/Experience

- Number of years of direct and relevant experience
- Technical qualifications
- Relevant experience

C. Methodology

- Project understanding, particularly the integration and coordination of systems with the other consultants
- The Proponent shall outline the design approach they will undertake for this Project
- The Proponent shall outline design issues and challenges which they foresee with the project
- Statement regarding the advantages and benefits that the Proponent provides that other Proponents may not be able to provide, taking into consideration the operating business and political environment in which TTC operates
- Preliminary resource plan - Detailed responsibility/functions of the Proponent and proposed Sub-Consultants (if applicable) in order to complete all Work described in Division 1 – Scope of Services
- Preliminary resource plan - High-level list of tasks, resources required and estimated hours required to complete all Work described in Division 1 – Scope of Services

D. Pricing Evaluation