

Amendment of Purchase Order Number 6052646 to HDR Corporation for Professional Consulting Engineering Services for the Eglinton East Light Rail Transit - Transit Project Assessment Process Environmental Assessment and 10 Percent Functional Design

Date: January 30, 2024

To: General Government Committee

From: Executive Director, Transit Expansion and Chief Procurement Officer

Wards: All

SUMMARY

The purpose of this report is to request authority to amend Purchase Order Number 6052646 issued to HDR Corporation for Professional Consulting Engineering Services for the Eglinton East Light Rail Transit (EELRT) Transit Project Assessment Process (TPAP) Environmental Assessment (EA) and 10 Percent Functional Design, awarded under Request for Proposal Doc 2991705152.

This second amendment is being requested to respond to City Council direction under EX33.2 and EX10.17 to advance the EELRT TPAP and 10 percent design for a distinct service concept, instead of a through-service concept, with an at-grade connection at Kennedy Station for the EELRT from Kennedy Station to Malvern Town Centre, and the Sheppard Avenue segment from Neilson Road to McCowan Road, amongst other matters. This amendment will enable HDR to continue to refine and deliver a refined functional 10% design that responds to and allows the City to maintain the opportunity to economically protect for the integrated EELRT Scarborough Subway Extension interface designs as well as in other major projects and additionally consider and implement new and evolving public realm, roadway and transit design standards, and current industry best practices throughout the alignment.

The amendment also accounts for additional and ongoing project management and coordination expenses as a result of the extended contract, in-person stakeholder engagement and consultation efforts required in 2024, and the further detailed

assessment of certain preliminarily identified cultural heritage resources along the EELRT alignment.

An extension to the contract from March 1, 2024, to November 30, 2024, is required to allow the above noted tasks to be completed. The total value of the Purchase Order Amendment being requested is \$1,820,370 net of all taxes and charges (\$1,852,409 net of HST recoveries), revising the current purchase order value from \$2,456,761 net of all taxes and charges (\$2,500,000 net of HST recoveries) to \$4,277,131 net of all taxes and charges (\$4,352,409 net of HST recoveries).

General Government Committee approval is required in accordance with Section 71-11.1C of the Toronto Municipal Code Chapter 71 (Financial Control By-law), where the current request exceeds the threshold of \$500,000 net of all taxes and charges.

RECOMMENDATIONS

The Executive Director, Transit Expansion Division and Chief Procurement Officer recommend that:

1. The General Government Committee, in accordance with section 71-11.1C of the City of Toronto Municipal Code Chapter 71 (Financial Control), authorize the amendment of Purchase Order Number 6052646 with HDR Corporation for Professional Consulting Engineering Services for the Eglinton East LRT Transit Project Assessment Process (TPAP) Environmental Assessment and 10 Percent Functional Design by an additional amount of \$1,820,370 net of all taxes and charges (\$1,852,409 net of HST recoveries), revising the current purchase order value from \$2,456,761 net of all taxes and charges (\$2,500,000 net of HST recoveries) to \$4,277,131 net of all taxes and charges (\$4,352,409 net of HST recoveries) and extend the delivery date from March 1, 2024 to November 30, 2024.

FINANCIAL IMPACT

The total value of the Purchase Order amendment is \$1,820,370 net of all taxes and charges. The cost to the City is \$1,852,409 net of HST recovery. This Purchase Order amendment will increase the current purchase order value from \$2,456,761 net of all taxes and charges (\$2,500,000 net of HST recoveries) to \$4,277,131 net of all taxes and charges (\$4,352,409 net of HST recoveries).

Funding is included in the Approved 2023 – 2032 Capital Budget and Plan for Transit Expansion Division as summarized in the table below:

Table 1 - Financial Impact Summary

WBS Element	Description	Year - 2024	Total (net of HST recovery)
CCI100-02	Eglinton East LRT	\$1,820,370	\$1,852,409

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

DECISION HISTORY

On August 26, 2021, Bid Award Panel adopted without amendment item BA151.7 thereby authorizing the award of Request for Proposal Doc2991705152 for the Eglinton East LRT Transit Project Assessment Process (TPAP) environmental Assessment and 10 Percent Functional Design in the amount of \$1,488,874 net of all taxes and charges (\$1,515,078 net of Harmonized Sales Tax recoveries) for a period of eighteen (18) months following award, and allowing for an extension of up to one year if required should implementation be delayed. Purchase Order 6052646 to HDR Corporation was issued in the amount of \$1,488,874 net of all taxes and charges.

Link: [Agenda Item History - 2021.BA151.7 \(toronto.ca\)](#)

In February 2022, City Council adopted with amendments MM39.8 - Requesting Metrolinx to participate in a Joint Constructability Exercise with the City of Toronto to Advance Plans for the Eglinton East Light Rail Transit - by Councillor Jennifer McKelvie, seconded by Mayor John Tory and requested that Metrolinx undertake a constructability exercise with the City for the EELRT to resolve alignment issues at Kennedy station, evaluate the potential to host the Maintenance and Storage Facility at the Metrolinx-owned Conlins site, and to ensure that the new Sheppard-McCowan Station for the SSE does not prohibit future higher order transit connections along Sheppard.

Link: [Agenda Item History - 2022.MM39.8 \(toronto.ca\)](#)

On June 15, 2022, City Council adopted with amendments, EX33.2 - Advancing City Priority Transit Expansion Projects - Eglinton East Light Rail Transit and Waterfront East Light Rail Transit, directing the Executive Director, Transit Expansion Division to advance the Transit Project Assessment Process and 10 percent design for a distinct-service concept with an at-grade connection at Kennedy Station for the Eglinton East Light Rapid Transit from Kennedy Station to Malvern Town Centre, and the Sheppard Avenue segment from Neilson Road to McCowan Road, and develop a Class 4 Cost Estimate, amongst other matters.

Link: [Agenda Item History - 2022.EX33.2 \(toronto.ca\)](#)

On January 9, 2023, General Government Committee adopted without amendments GG1.3 thereby authorizing the Purchase Order Amendment in the amount of \$967,887 net of all taxes and charges (\$984,922 net of HST recoveries), revising the existing purchase order value from \$1,488,874 net of all taxes and charges (\$1,515,078 net of HST recoveries) to \$2,456,761 net of all taxes and charges (\$2,500,000 net of HST recoveries).

Link: [Agenda Item History - 2023.GG1.3 \(toronto.ca\)](#)

On December 13, 2023, City Council adopted with amendments EX10.17– Advancing Eglinton East Light Rail Transit, directing City staff to advance the required next steps to progress the EELRT project, including securing accommodation of the EELRT by adjacent projects to the extent possible.

Link: [Agenda Item History - 2023.EX10.17 \(toronto.ca\)](#)

COMMENTS

Background

The Transit Expansion Division is currently advancing the Eglinton East Light Rail Transit (EELRT) project to the Transit Project Assessment Process (TPAP) and refining the 10 percent design for a distinct-service concept with an at-grade connection at Kennedy Station to Malvern Town Centre, and the Sheppard Avenue segment from Neilson Road to McCowan Road, based on City Council authority under EX33.2 and EX10.17.

The EELRT is a proposed 18.6-kilometre LRT in Scarborough, with a total of twenty-seven (27) stops. The alignment begins at Kennedy Station, continues east on Eglinton Avenue, Kingston Road, and proceeds north on Morningside Avenue, Ellesmere Road, New Military Trail, Sheppard Avenue East and Neilson Road. It terminates at two locations, one at Sheppard-McCowan, where Sheppard East Station is currently under construction by Metrolinx for the Scarborough Subway Extension (SSE), and the other at Malvern Town Centre. See Figure 1 – City Council approved EELRT alignment.

Figure 1 – City Council Approved EELRT Alignment



Second Amendment of Purchase Order Number 6052646 to HDR Corporation

The current professional consulting engineering services assignment for the EELRT TPAP Environmental Assessment and 10 percent functional design was awarded to HDR Corporation in September 2021 and is anticipated to be completed by November 2024, subject to adoption of the recommendations within this report.

The original scope was based on a through service LRT, adopting many of the requirements and design assumptions of the Eglinton Crosstown LRT. However, in June 2022, under EX33.2, City Council directed City staff to advance the TPAP and 10 percent functional design for a distinct-service concept with an at-grade connection at Kennedy Station for the EELRT from Kennedy Station to Malvern Town Centre, and the Sheppard Avenue segment from Neilson Road to McCowan Road. City Council also directed staff to complete an assessment of light rail vehicle options for the line and to develop an updated Initial Business Case.

As a result of the updated Council direction under EX33.2, a POA was authorized in January 2023, updating the original scope of work under this assignment to:

- Expand the EELRT constructability assessment to resolve additional unanticipated interface issues at Kennedy Station associated with the Metrolinx Scarborough Subway Extension (SSE);
- Deliver an at-grade EELRT Kennedy terminal design for the distinct-service concept necessitated by the resolution of constructability issues at the Kennedy Station SSE interface;

- Deliver EELRT line-wide changes resulting from the distinct service concept (e.g., revised vehicle specifications, special trackwork and platform requirements; assessment of predominately at-grade alignment refinement options; revised Morningside Bridge over Highway 401 structural loading requirements for LRT);
- Confirm the relocation of the EELRT MSF to the Conlins Yard at 8300 Sheppard East to address access and capacity issues and inclusion in the TPAP;
- Ensure that the SSE will accommodate an appropriate EELRT interface at Sheppard East Station;
- Identify opportunities for SSE delivery contracts to protect for the future EELRT;
- Optimize project delivery cost with a predominantly at-grade alignment and an improved Scarborough transit network integration;
- Update the project business case to reflect the distinct-service concept; and
- Expand the stakeholder and public engagement scope to accommodate consultation on the project changes.

Subsequently, in December 2023, under EX10.17, City Council directed staff to advance the next steps to progress the EELRT project, including securing accommodation of the EELRT by adjacent projects, inclusive of the Province's DSBRT, SSE and the Morningside Bridge over Highway 401 rehabilitation projects, to the extent possible.

To fully address City Council direction under EX33.2 and complete a refined EELRT 10 percent Design and TPAP and begin to address updated direction under EX10.17, additional efforts are required from HDR to:

- Integrate continuously evolving City and industry standards and best practices into the final refined 10 percent design;
- Complete engineering assessment work, peer review, and coordination with adjacent projects, where required, to maintain opportunity for economical accommodation or protection of the EELRT 10 percent design in major projects, including the Province's DSBRT, GO, SSE and Morningside Bridge over Highway 401 rehabilitation projects;
- Explore the potential for a stop at Morningside Park;
- Expand scope of cultural heritage assessment to further assess certain individual properties that have been preliminarily identified as having cultural heritage interest;
- Assist with general project management and coordination activities; and
- Support efforts associated with in-person public and stakeholder engagement activities anticipated in 2024.

In addition, to be used at the discretion of City staff, the second purchase order amendment will include a contingency amount to account for unknowns that may arise, as the contingency amount in the original purchase order in 2021 has been exhausted.

The City has reviewed HDR Corporation's quotations for the additional professional services noted above and found them to be fair and reasonable. An extension to the

contract from March 1, 2024, to November 30, 2024, is required to allow the above noted tasks to be completed.

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SIGNATURE

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