

To: Metrolinx Board of Directors

From: Peter M. Zuk
Chief Capital Officer, Capital Projects Group

Date: December 6, 2018

Re: **Capital Projects Group Quarterly Report**

Recommendation

That this report is received for information.

Executive Summary

Since the last quarterly update in September 13, 2018, the Capital Projects Group (CPG) continues to advance a large program, involving signature projects in the GO Expansion program as well as light rail transit (LRT) and bus projects.

CPG is pleased to report the following accomplishments this quarter:

- the Eglinton Maintenance Facility achieved readiness to receive the light rail vehicles on October 1, 2018;
- the Highway 7-Vaughan Metropolitan Centre segment reached total performance in November 2018;
- A new pedestrian bridge was lifted and installed at Cooksville GO station on November 3. The bridge will connect the new parking structure to the rail platform.
- the RFP for the first Barrie Corridor non-AFP contract closed on September 20, 2018;
- the expansion of the south parking lot at Kipling Station was completed and opened to the public in September 2018;
- an official lighting event took place to mark the completion of the Pickering Pedestrian Bridge on September 21, 2018;
- the technical advisory services contract for the Kitchener Expansion project is expected to be awarded in December 2018;
- train operations commenced at the Whitby Rail Maintenance Facility on September 4, 2018, with 9 trains now serviced and dispatched from the facility;
- total completion of the Network Operations Centre in Oakville was achieved on October 11, 2018; and
- the RFQ for the design-build-finance-operate-maintenance (DBFOM) contract for on corridor works necessary to deliver the GO Expansion service levels closed in October 2018.

- Parking improvements at Streetsville are now complete: 259 extra spaces were added, along with more lighting, better walkways and signage.

A summary of Metrolinx’s major capital project status is shown in Table 1.

Table 1: Program Overview

Corridor	Project Stage	Approved Budget for Capital Construction	In-Service Date ¹
Rapid Transit Program			
Eglinton Crosstown LRT	Construction	\$5,300,000,000 ²	2021
Finch West LRT	Procurement	\$1,000,000,000 ²	2023
Hurontario LRT	Procurement	\$1,400,000,000 ³	2022
Hamilton LRT	Procurement	\$1,000,000,000 ³	2024
Viva BRT	Construction	\$1,400,000,000 ²	Various
Bus Infrastructure	Various	\$429,660,000	Various
GO Expansion Projects³			
Barrie	Procurement	\$1,506,000,000	2025
Kitchener	Design/Construction	\$1,534,000,000	2025
Lakeshore East	Procurement	\$735,000,000	2025
Lakeshore West	Procurement	\$401,000,000	2025
Milton	Procurement	\$4,000,000	2025
Stouffville	Construction	\$581,000,000	2025
USRC	Various	\$682,000,000	2025
Network Infrastructure ⁵	Design/Construction	\$4,493,000,000	2025
Vehicles	Design/Study	\$2,583,000,000	2025
Parking, Access & Property	Design/Study	\$981,000,000	Various
Extensions			
Bowmanville Extension	EA and Design	\$550,000,000 ³	2024
Kitchener Extension	EA and Design	\$2,250,000,000 ⁶	2024
Niagara Extension	EA and Design	\$160,000,000 ³	2023

¹ Actual in-services dates are subject to schedules submitted by the successful AFP bidders. 2025 indicates the announced timeline of '2024/25'.

² 2010\$

³ 2014\$

⁴ RER project budgets have been updated to reflect the current budget baseline.

⁵ Includes Electrification and Signals.

⁶ 2016\$

Major Project Updates

RAPID TRANSIT: LRT UPDATE

Eglinton Crosstown LRT

Crosslinx, the consortium delivering the project, continues with construction at the Eglinton Maintenance and Storage Facility (EMSF), all stations and along the at-grade portion of the guideway.

Construction of the EMSF has achieved the EMSF Readiness for Light Rail Vehicle (LRV) Delivery milestone, whereby all buildings and partial trackwork were completed

by October 1, 2018. Work on the remainder of the trackwork and landscaping continues.

Crosslinx has submitted Issued for Construction drawings for all underground stations and construction is progressing. At Mount Dennis Station the new Photography Drive bridge spanning Eglinton Avenue West to access the bus terminal and passenger pickup and drop off is complete.

Finch West LRT

The Finch West LRT achieved Financial Close on May 7, 2018. Mosaic Transit Group (Mosaic), the consortium delivering the project, submitted the first 30% design package in September and the first 60% design packages in October.

Hurontario LRT

The RFP for the Hurontario LRT is in-market. Currently, preparatory works are being conducted by utility companies including, Rogers, Bell, Alectra, Enbridge Gas, and Sun Canadian, and are on schedule.

Hamilton LRT

The RFP for the Hamilton LRT is in-market. Planning work is underway for the relocation of a major Hydro One transmission line. Potential opportunities for utility relocation early works are being discussed with utility companies.

RAPID TRANSIT: BUS UPDATE

VivaNext BRT

Yonge Street - Richmond Hill to Newmarket

Utility relocation and road widening work is ongoing along segments in the Town of Richmond Hill. Construction continues at the Mulock Station while concrete and asphalt removals were completed on Eagle Street in Newmarket.

Highway 7 - Vaughan to Richmond Hill

Construction continues on the BRT station stops at several locations. Utility relocations are now complete, with the remaining Alectra relocations in the Hwy 400 area having been completed in October 2018.

Highway 400 bridge work continues, including construction of the new bridge deck widening, and preparation work for retaining walls throughout the Ministry of Transportation (MTO) limits. Early handover of the Highway 7 East section between

the Bathurst Connector and Yonge Street is expected to be complete in December 2018.

Highway 7 - Vaughan Metropolitan Centre

The Highway 7-Vaughan Metropolitan Centre segment reached Total Performance in November 2018.

Mississauga Bus Rapid Transit

Erin Mills, Winston Churchill and Renforth stations on the Mississauga Transitway are now complete.

GO Bus Infrastructure

Multiple park-and-ride (P&R) lots across the GTHA are in various stages of planning, design, procurement and construction. The P&R at Riston Road and Old Knob Hills Farm and the P&R at Courtice Road and Highway 401 are scheduled to be in service on Dec 30, 2018. The 407 and Jane Street Bus Terminal reached substantial performance on October 30, 2018 and Total Performance is anticipated in December 2018.

GO EXPANSION

AFP - Early Works Update

Cooksville GO Station

Construction is ongoing at Cooksville GO Station, which includes a new parking structure, a new station building, new bus facility and other site amenities to enhance the use of active transportation modes. The replacement parking lot is now complete and the construction of the parking structure as well as platform improvement works are ongoing. The pedestrian bridge was lifted and installed November 3. All modes of transportation are being serviced at Cooksville during construction.

Milton/Meadowvale/Stations Operations West

This design, build and finance project includes the implementation of required infrastructure upgrades at Milton and Meadowvale GO Stations and a new Station Operations West facility at Argentia Road. The RFP to design, build and finance the Milton Corridor project was issued on April 3, 2018 to three prequalified teams and is currently in the in-market phase. The RFP close is scheduled for early 2019.

Kipling Station Bus Terminal

The expansion of the existing South Parking Lot (915/919 Kipling) was completed and opened to the public in September 2018 and Project Co. retained access to the entire land (North Parking Lot). At the same time, a temporary passenger pick-up and drop-off (PPUDO) facility has been opened to the public permitting the existing PPUDO to be closed for required work associated with the new bus terminal.

Rutherford Station

The RFP for the Rutherford GO Station project was released in November 2017 and submissions were provided on August 2, 2018. Technical and financial evaluations of the three proposals were completed in September and a preferred proponent was identified.

Stouffville Stations and Grade Separation

The Stouffville Stations and Steeles Avenue Grade Separation AFP project reached Financial Close on March 7, 2018. -Project Co. has commenced site mobilization and early works at Agincourt and Milliken GO Stations. The design submission is at 90%.

Non-AFP Early Works Update

Barrie Corridor

The Barrie Corridor non-AFP work includes three large contracts. The RFP for the first contract closed on September 20, 2018 and includes grading for a second track, noise walls, retaining walls, culvert extensions, utility relocations, bridge widening at Sheppard Avenue and a new platform at Downsview GO Station.

Lakeshore East Corridor

The Pickering Pedestrian Bridge was completed in early September. An official lighting event took place on September 21, 2018.

Lakeshore West Corridor

The detailed design for the Confederation Station in Hamilton is now complete and the tender for the construction contract was issued in November 2018.

New Stations and Off-Corridor Infrastructure Update

The EA Statement of Completion for the New Stations Toronto project and East Harbour project was issued on September 24, 2018. The New Stations Toronto project consists of constructing five new SmartTrack station stops and two new GO

Station stops with associated access and customer amenities, on the GO rail system within the City of Toronto.

The EA Addendum for New Stations Outside of Toronto was issued on October 9, 2018. This project consists of construction of four new GO station stops with associated access and customer amenities on the GO rail system outside the City of Toronto.

The RFP for the design-build contract for the Early Stations Improvement project closed on August 24, 2018 and 3 complete bids were received. The evaluation is complete and the preferred proponent has been identified.

Early works to relocate the hydro towers for the new Caledonia Station began in October 2018.

Rail Corridor Extensions Update

Kitchener Extension

The Qualification-Based Selection (QBS) document for the purpose of selecting a technical advisor to deliver options analysis, EA studies and approvals, a feasibility study, preliminary design for the preferred option, and develop appropriate procurement documentation for the Kitchener Corridor expansion work closed on June 29, 2018. The Technical Advisor contract is expected to be executed in early 2019.

Whitby Rail Maintenance Facility

The Whitby Rail Maintenance Facility reached substantial completion on March 14, 2018. Plenary Infrastructure ERMF has completed outstanding minor deficiencies and Metrolinx has mobilized operations. Train operations commenced on September 4, 2018 with nine trains being now serviced and dispatched from the facility. The new facility will provide GO transit with improved operational reliability, increased flexibility in route scheduling and additional rail equipment maintenance capacity. The mainline track and signals work is on-going. The west end access to and from the mainline to the facility is signalized and the east end nearing completion.

Network Operations Centre

The total completion of the NOC at Oakville was reached on October 11, 2018. Regular operations will start in phases, Transit Safety dispatch started on October 26, and the GO Transit Control Centre began operations from the location on November 10.

Network Integration Update

On-Corridor

The RFQ for the Design-Build-Finance-Operate-Maintain (DBFOM) contract closed in October 2018. This project includes the remaining on corridor work necessary to deliver the GO Expansion Service Levels.

Union Station Rail Corridor

The Environmental Assessment Report for tracks, bridges and retaining structures for the East Track Enhancement Project was approved by the Ministry of the Environment, Conservation and Parks in October 2018. Stakeholder and community consultation is planned to continue over the next several months.

Construction of the new Union Station Bus terminal continues to progress well. The new bus terminal will replace and double the capacity of the current terminal.

Respectfully submitted,

Peter M. Zuk
Chief Capital Officer, Capital Projects Group