



To: Metrolinx Board of Directors

From: John Jensen
Chief Capital Officer, Capital Projects Group

Date: June 28, 2016

Re: **Capital Projects Group Quarterly Report: June 2016**

Recommendation

That this report is received for information.

Executive Summary

The Capital Projects Group (CPG) is advancing a large and growing program, involving signature projects like Regional Express Rail (RER), the Eglinton Crosstown LRT, the Finch West LRT, the Hurontario LRT and the Hamilton LRT. Each project has its own profile in terms of schedule, budget and risk management plan. In addition to managing specific projects, work is also underway to enhance overall program management systems, controls and processes in order to improve outcomes, apply consistent and replicable standards and monitor the entire program in a more comprehensive fashion.

Metrolinx's major capital projects are currently on-time and on-budget, as shown in Table 1. This table is a new addition to the CPG Quarterly Report.

Table 1: Project Status

Corridor	Project Stage	Approved Budget for Capital Construction	In-Service Date	On-Time	On-Budget
Rapid Transit Projects					
Eglinton Crosstown LRT ³	Construction	\$5,300,000,000 ¹	2021	●	●
Finch West LRT	Design/Construction	\$1,000,000,000 ¹	2021	●	●
Hurontario LRT	Design	\$1,400,000,000 ²	2022	●	●
Hamilton LRT	Design	\$1,000,000,000 ²	2024	●	●
Viva BRT	Various Stages	\$1,500,000,000 ¹	Various	●	●

Corridor	Project Stage	Approved Budget for Capital Construction	In-Service Date	On-Time	On-Budget
Regional Express Rail Projects					
Barrie	Design	\$1,440,000,000	2025	●	●
Kitchener	Design	\$1,540,000,000	2025	●	●
Lakeshore East	Design	\$740,000,000	2025	●	●
Lakeshore West	Design	\$400,000,000	2025	●	●
Milton	Design	\$4,000,000	2025	●	●
Stouffville	Design/Construction	\$570,000,000	2025	●	●
USRC ⁴	Design	\$690,000,000	2025	●	●
Network Infrastructure ⁵	Design	\$4,480,000	2025	●	●
Vehicles	Design/Study	\$2,600,000	2031	●	●
Parking, Access & Property	Design/Study	\$1,030,000	Various	●	●
Total RER		\$13,500,000,000²			

¹ \$2010.

² \$2014.

³ Eglinton is on-time as bid.

⁴ See Union Station Rail Corridor update below for more information.

⁵ Includes Electrification and Signals.

RAPID TRANSIT

Light Rail Transit (LRT) Update

Eglinton Crosstown LRT

Crosslinx Transit Solutions (Crosslinx), the consortium delivering the Design-Build-Finance-Maintain contract for the Eglinton Crosstown LRT project, officially started construction on March 1, 2016. Construction began on Keele Station, the first of 25 stations to be built. Premier Kathleen Wynne was at the ground-breaking ceremony on March 10, 2016 to celebrate this milestone. Crosslinx is working on completing its design of the line and are now working on the 60% engineering design packages, which will be completed in Fall 2016.

The construction of the Eglinton Crosstown tunnels is still underway and continues to advance. The construction of the west tunnel is now complete and the east tunnel segment is expected to be completed by the end of the year, when they will be handed over to Crosslinx.

Finch West LRT

The three consortia pre-qualified during the Request for Qualifications (RFQ) procurement phase are now working on preparing their proposals for the next phase of the procurement process: the Request for Proposals (RFP). The RFP was released in February 2016 and Humber Valley Transit Partners, Mosaic Transit Group and FACT Partners will be working on their proposals until RFP Close in October 2016.

Hurontario LRT

AECOM, the technical advisor for both the Hurontario and Hamilton LRT projects, are now on board and have initiated the project working groups, which are now meeting regularly.

CH2M, which is providing program management support, is now finalizing the Project Definition Report and project schedule for each project.

Hamilton LRT

A Memorandum of Agreement (MOA) between Metrolinx and the City of Hamilton was executed in March 2016.

A preferred location of the Maintenance and Storage Facility (MSF) was presented to the Metrolinx/City of Hamilton Steering Committee at the end of March. The final location will depend on the outcome of discussions with the property owners, which are currently underway.

Initial alignment details were released to the public at the Hamilton Council LRT Subcommittee meeting on May 2, 2016. Metrolinx and the City of Hamilton are working collaboratively on community and stakeholder engagement over the coming months.

A Realty Protocol between Metrolinx and the City of Hamilton was endorsed by Hamilton City Council on May 25, 2016, which established the roles and responsibilities for property acquisition activities related to the project.

Bus Rapid Transit (BRT) Update

Yonge Street – Viva Bundle – Richmond Hill to Newmarket

York RapidLINK Constructors, the design-build (DB) team led by Aecon and Dufferin, submitted the 100% design packages for all segments of the Yonge Street BRT line between Richmond Hill and Newmarket. Construction of the retaining walls along the corridor and the water main work has commenced. The project is expected to be complete by the end of 2018.

Highway 7 – Vaughan to Richmond Hill (H2)

EDCO, the consortium that will design, build and finance the project, submitted their 60% civil design. Design workshops to address comments from the technical review have commenced. The project is expected to be complete by the end of 2020 with service starting in 2019.

Highway 7 – Vaughan Metropolitan Centre (H2 VMC)

Construction of the Highway 7 VMC BRT is advancing with the section east of Jane Street expected to be complete in Fall 2016. The section west of Jane, including the VMC Terminal, will be completed with the opening of the Toronto York Spadina Subway Extension at the end of 2017.

Davis Drive – Newmarket (D1)

The Davis Drive rapidway opened for revenue service in November 2015. The remaining streetscaping work commenced in April and will be complete by Fall 2016.

Bus Infrastructure

The Square One Bus Terminal, located within the Mississauga City Centre Transit Terminal, opened on March 31, 2016. As the second busiest bus facility in the GO Transit bus network, the completion of several customer improvements will make taking transit an easier option for Mississauga residents and commuters.

REGIONAL EXPRESS RAIL

Corridor Infrastructure Update

Barrie Corridor

The Environmental Assessment (EA) for Caledonia Station was completed in February 2016 with final approval issued by the Minister of the Environment and Climate Change on April 28, 2016.

The Notice of Completion for the Davenport Diamond Rail Overpass EA issued on May 26, 2016, has been submitted to the Minister of the Environment and Climate Change and is awaiting approval. Work also continues on an EA to add an additional track to the corridor to support services in both directions. A second series of public meetings is anticipated to be held this Fall.

Metrolinx is investing in several targeted parking structures along the Barrie Corridor. The feasibility studies for parking structures at Maple and King GO Stations were completed in January 2016. The contract to design the Rutherford parking structure was awarded to R. V. Anderson Associates Limited in June. In addition, a passing track providing increased flexibility and reliability in scheduling from Steeles Avenue to south of Rutherford GO station is scheduled for completion by Fall 2017.

Kitchener Corridor

Work is being completed for the new parking lots at Weston GO and UP Express Stations. These new parking lots bring the total number of spaces to 330 to help support demand from both GO Transit and UP Express customers.

Lakeshore East Corridor

Three public meetings were held at the end of May 2016 on the expansion of the Lakeshore East Corridor between Guildwood and Pickering GO stations as part of the EA process. This work includes the proposed addition of a third track, modifications to two rail bridges, electrification enabling works and grade separations at Scarborough Golf Club Road, Galloway Road and Morningside Avenue.

Richmond Hill Corridor

The tender for the construction of Bloomington GO Station, the new northern terminus of the Richmond Hill line, is scheduled for release in July 2016. The tender is for the construction of the station and integrated parking structure, as well as road access from

Highway 404 into the station. The construction contract is a design-bid-build contract and construction is expected to start in October 2016.

Stouffville Corridor

Phase 1 double tracking work continues on the corridor and a public meeting was held on June 1, 2016, in preparation for the start of Phase 2. This work includes track expansion, signal work along the corridor, and the installation of noise walls. A community workshop was also held for the redesign of Agincourt GO Station to inform the design of the station as well as to gain a better understanding of pedestrian access to the station.

Parts of the project along the full 17-kilometre segment are currently being designed or planned. These parts include adding a second track to the remaining single-tracked parts of this segment and expanding Unionville, Milliken, Agincourt and Kennedy GO Station to accommodate the second track. Construction will begin as designs are completed starting in 2016.

The construction tender for the Lincolnville Layover Expansion was released on May 13 and closed on June 7, 2016. The expansion will include an additional track for train storage and upgrades to the existing track to accommodate future additional peak-hour and peak-direction service on the Stouffville Corridor.

Union Station Rail Corridor

Work is continuing on the Union Station Trainshed project with a major shift in construction activity occurring at the end of June to begin rehabilitation work on a new set of tracks and platforms. This work will have major operational and customer-facing impacts as Metrolinx shifts service in the trainshed. In addition, Metrolinx has de-scoped the amount of work in the current construction contract and this work will be built into the future construction contract to electrify the Union Station Rail Corridor. This change will provide a more effective way to integrate the remaining construction activity in the trainshed, reduce any throw-away costs and improve the sequencing of work.

Network Infrastructure Update

Network Electrification

The EA for the electrification of the GO network is ongoing and consultation with stakeholders and communities are progressing well. Metrolinx has met with several stakeholder groups, including ministries, the City of Toronto, members of parliament at the Provincial and Federal levels, First Nations communities and other stakeholder groups.

Network Facilities

Construction on the fuel upgrade system upgrade at the Willowbrook Rail Maintenance Facility began in June and is expected to be completed by the end of 2017.

Construction of the new East Rail Maintenance Facility continues and is progressing well to completion by December 2017.

Respectfully submitted,

John Jensen
Chief Capital Officer, Capital Projects Group