

To: Metrolinx Board of Directors

From: Matthew Clark
Chief Capital Officer (A), Capital Projects Group

Date: February 7, 2019

Re: **Capital Projects Group Quarterly Report**

Recommendation

That this report is received for information.

Executive Summary

Since the last quarterly update on December 6, 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 Highway 7-Vaughan Metropolitan Centre segment of the vivaNext BRT was placed into service on December 7, 2018;
- the contract for the Park and Ride (P&R) Expansion at Dundas and 407 ETR-Burlington was awarded on December 7, 2018 and the bus terminal at 407 ETR and Jane reached Substantial Performance on December 31, 2018;
- the Rutherford Station and Grade Separation project achieved financial close on December 13, 2018
- the Detailed Design of the Cooksville GO Station was completed on December 14, 2018;
- the Technical Advisor contract for the Kitchener Extension work was awarded on January 3, 2019;
- the delivery of the first revenue vehicle for the Eglinton Crosstown LRT occurred on January 8, 2019;
- the Construction Contract Tender for the Weston Station project was released in market on January 10, 2019;
- the South Track Realignment (Part 1 Track Expansion) work, which is part of the Stouffville Double Tracking Part 1 Contract, was completed on January 25, 2019;
- the construction at GO Bus park-n-rides at Ritson Road (Oshawa) and Courtice Road (Clarington) was completed and busses went into service on January 7, 2019.

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	Design/Construction	\$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

The project reached a major milestone at the beginning of January with the delivery of the first revenue vehicle. In late 2018, Crosslinx, the consortium delivering the project, achieved substantial completion of the Eglinton Maintenance and Storage Facility (EMSF), and installation of more than 10 kilometres of track. Construction continues at all underground stations and along the at-grade portion of the guideway.

Finch West LRT

Mosaic Transit Group (Mosaic), the consortium delivering the project, submitted the first 60% design package on December 20, 2018. Construction continued to progress on early works including the relocation of Enbridge Gas lines and relocations/protection of oil pipelines.

Hurontario LRT

The RFP for Hurontario LRT AFP contract is currently in-market and expected to reach Financial Close (contract award) in the summer of 2019.

Currently, works conducted by telecommunication and utility companies (Rogers, Bell, PSN, Alectra, and Enbridge Gas) in advance of the main AFP contract are ongoing and on schedule.

Hamilton LRT

The RFP for the Hamilton LRT is in-market. Potential opportunities for utility relocation early works are being discussed with utility companies.

RAPID TRANSIT: BUS UPDATE

VivaNext BRT

Highway 7 - Vaughan to Richmond Hill

Early Handover of the Highway 7 East (Bathurst to Yonge) segment has been deferred to spring 2019 due to weather. A decision to proceed with the early handover of this section of Rapidway will occur by the end of winter 2019. Ongoing submissions related to Inspection and Testing Plans (ITPs) and shop drawings continue.

Utility relocation, sewer and road widening works are ongoing. Boulevard works, including installation of planter boxes and sidewalk are ongoing along Highway 7, between Weston Road and Pine Valley Drive, and along Centre Street and Bathurst Street. Station work continues at 9 of the 10 station platforms.

Highway 7 - Vaughan Metropolitan Centre

The Highway 7-Vaughan Metropolitan Centre segment was placed into service on December 7, 2018 and Total Performance is expected to be achieved in February 2019.

GO Bus Infrastructure

The contract for EA/Design/Contract Administration for the Aberfoyle Bus Facility - Office Room Expansion project was executed on December 14, 2018. The interim

park-and-ride (P&R) at Courtice Road and Highway 401 reached Substantial Performance on December 31, 2018, and placed into service on January 7, 2019.

The contract for the P&R Expansion at Dundas and 407 ETR-Burlington was awarded on December 7, 2018. The bus terminal at 407 ETR and Jane reached Substantial Performance on December 31, 2018.

GO EXPANSION

AFP - Early Works Update

Cooksville GO Station

Detailed design was completed on December 14, 2018. The assembly of the precast structural members of the parking structure is complete and work on the façade structural mounts has commenced. Work on the platform and new station building is ongoing.

Milton/Meadowvale/Stations Operations West

The procurement period for the project has been extended.

Kipling Station Bus Terminal

The 100% design has been submitted and the project team has provided comments to the design team. The design is expected to be finalized soon.

Excavation and structural foundations have been completed on both the Entrance Building and the new Kipling Bus Terminal. Concrete wall construction is now commencing on both these structures.

Preparatory work (including a pedestrian bridge connecting the bus terminal to the rail platform) has commenced. Kipling GO Station renovations are also scheduled to commence early February.

Rutherford Station and Grade Separation

The Rutherford Station and Grade Separation project achieved financial close on December 13, 2018, and the detail design is now underway.

Stouffville Stations and Grade Separation

Stouffville is at the 90% design submission stage for improvements to the Agincourt, Milliken, and Unionville Stations as well as the Steeles Ave Grade Separation.

Caisson installations are on-going at Agincourt and Milliken for pedestrian tunnel shoring and station foundations. Demolition of structures along Steeles Avenue is

underway and rail infrastructure has been relocated to accommodate the upcoming track diversion that will facilitate construction of the grade separation.

Non-AFP Early Works Update

Stouffville Rail Corridor Expansion

The South Track Realignment (Part 1 Track Expansion) work, which is part of the Stouffville Double Tracking Part 1 Contract, was completed on January 25, 2019.

Bloomington Station

Bloomington Station took another big step towards completion with a 650 cubic-metre concrete pour in December 2018.

Weston Station - Kitchener

The Construction Contract Tender for the Weston Station project was released to the market on January 10, 2019.

Kitchener Track Work

Detailed Design for the 4th Track Construction (Strachan to Nickle segment) is nearing completion and is expected near the end of January 2019.

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.

Guildwood Station

The total performance of the work is expected at the end of January 2019.

GO Station Capital Delivery Infrastructure Update

The Concept Design was approved for the New East Harbour Station project on December 14, 2018.

Rail Corridor Extensions Update

Kitchener Extension

The Technical Advisor contract for the Kitchener Extension work was awarded on January 3, 2019.

Niagara Extension

New weekday service from Niagara Falls and St. Catharine's began on January 7, 2019, four years ahead of the committed date.

Whitby Rail Maintenance Facility

The last signals cutover was completed December 16, 2018. Substantial Completion on the mainline track and signals work was achieved on December 17, 2018.

On-Corridor

The RFQ has closed and responses have been evaluated. Pre-Qualifies Proponents were notified on January 25, 2019.

Union Station Rail Corridor

The Union Station enabling works project is ongoing with two tracks closed for each stage until summer 2019, construction moved into the second last stage at the end January 2019.

Construction of the new Union Station Bus terminal continues to progress well and the Union Station back-up generator project is anticipated to be awarded in February 2019. The new bus terminal will replace and double the capacity of the current terminal.

Corridor Maintenance

The Fourth Line (Guelph Subdivision) Crossing Rehabilitation project was completed on December 9, 2018. The St. John Sideroad Crossing Rehabilitation project was completed on December 16, 2018.

Respectfully submitted,

Matthew Clark

Chief Capital Officer (A), Capital Projects Group